

**THE EFFECT OF WEB-BASED COMIC ON FASTING PRACTICE
DURING RAMADAN**



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

THE EFFECT OF WEB-BASED COMIC ON FASTING PRACTICE DURING RAMADAN

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This report is submitted in partial fulfillment of the requirements for the
Bachelor of Computer Science (Interactive Media) with Honours.

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY
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2021

DECLARATION

I hereby declare that this project report entitled
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RAMADAN]**

is written by me and is my own effort and that no part has been plagiarized
without citations.

STUDENT : _____ Date : 6/9/2021
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I hereby declare that I have read this project report and found
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Bachelor of Computer Science (Interactive Media) with Honours.

SUPERVISOR : _____ Date : 6/9/2021
(TS DR SITI NURUL MAHFUZAH MOHAMAD)

DEDICATION

This final year project is dedicated to my whole family and friends. My parents, my sisters, my brother, and my friends who have been supported me, gave me strength, inspiration, and encouragement throughout the process of developing this project.

Also not to be forgotten, I dedicate this project to my supervisor Ts Dr Siti Nurul Mahfuzah who have been guiding me from the start until the end of this project. Thanks to my supervisor for the opportunities that I got new experience in making the web comic which I never thought I ever will.



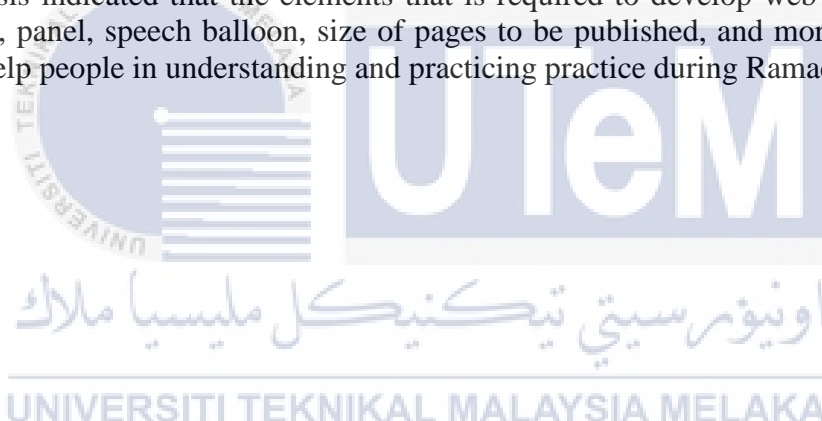
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I would like to express my gratitude, appreciation, and acknowledgement to my whole beloved family. My parents Sachrul Bachuri and Hairiyah, my sisters Nurrahmadanniah and Nur Syaheerah, my brother Abdul Khairi, and my friends who I cannot even mention the whole name list have been supported me, gave me strength, inspiration, and encouragement throughout the process of developing this project. With their help, I was able to deny the thought of giving up half way.

I would like to express the sincere gratitude and appreciation to my supervisor Ts Dr Siti Nurul Mahfuzah for the opportunities she gave me to conduct this project and guiding me throughout the whole process from the beginning until the end. Without her, I would not have this new experience of doing the project which I never thought of doing it. This new experience help me to not afraid of doing something new and to not thinking of giving up and always try to give the best of what we can. Thank you for all your guide and help in the project.

ABSTRACT

With the advanced technology, comic has now can be found not only in the form of comic book and comic strip but also can in the form of web comic. Web comic nowadays has become not only for fiction story but also one of the alternative method in learning. There are so many books about Islam or fasting during Ramadan can be found. However, only a little can be found in the form of comic especially web comic. Since comic come with images and text to visualize the information, it will be more attractive and the process of remembering the information will be easier. Thus, the information will be easier to practice. Therefore, this project will develop the web-based comic on fasting practice during Ramadan to be published in a platform. Analysis indicated that the elements that is required to develop web comic as such layout, panel, speech balloon, size of pages to be published, and more. This project will help people in understanding and practicing practice during Ramadan.



ABSTRAK

Dengan kemajuan teknologi pada zaman sekarang yang makin berpesat, komik tidak hanya dapat ditemukan dalam bentuk buku komik malahan juga boleh didapati dalam bentuk komik web. Komik web sekarang bukan sahaja mengandungi cerita-cerita rekaan atau fiksi namun juga telah menjadi salah satu cara alternatif dalam mempelajari sesuatu. Terdapat banyak buku tentang Islam atau puasa semasa bulan Ramadan dapat ditemukan. Namun begitu, hanya sedikit yang dapat ditemui didalam bentuk komik terutamanya komik web. Kerana komik datang di dalam bentuk gabungan gambar dan tulisan untuk menvisualisasikan sesuatu informasi, ia akan menjadi lebih menarik dan proses mengingat informasi akan menjadi lebih senang dan mudah. Oleh itu, informasi akan lebih mudah untuk diamalkan. Dengan itu, projek ini akan menghasilkan komik web berasaskan puasa semasa bulan Ramadan untuk diterbitkan di sebuah platform. Analisis menunjukkan bahawa terdapat beberapa elemen yang diperlukan untuk menghasilkan komik web seperti 'layout', panel, 'speech balloon', dan ukuran halaman untuk menerbitkan komik, dan banyak lagi. Projek ini akan membantu ramai orang dalam memahami dan berlatih mengamalkan puasa semasa bulan Ramadan.

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LIST OF ABBREVIATIONS

FYP	-	Final Year Project
SME	-	Subject Matter Expert



CHAPTER 1: INTRODUCTION

1.1 Introduction

Comic or web comic nowadays has become one of the alternative method in learning. A situational learning system using a comic play was devised to help students learn through scriptwriting in groups (Chen, 2018). With the rising of technology, web comic is now more popular and attracted as it is easier to get. Moreover, in this era of digital technology, people are more interested in using the technology or gadget as the medium to gain something.

This project is based on the web-based comic development. It is about the effect of web-based comic on fasting practice during Ramadan. Learning material that is packaged through a clear story line will make the subject matter last longer in students' memories and understanding (Rina, 2020). The target audience for this project is for all range of age especially for student in order to learn practicing fasting during Ramadan. Thought it can also be for general because it contains knowledge about fasting during Ramadan.

Since there are many do's and don'ts that we need to practice during fasting on Ramadan. Some people might have it difficult to practice or implement what they must do, what they must avoid during fasting. The comic can help in better understanding on the fasting practice based on the situation and storyline portrait in the comic.

1.2 Problem Statement(s)

Learning nowadays might be boring and difficult if we still use the traditional method which is using textbook and whiteboard. This is because elements contains on textbook and whiteboard have only plaintext and a few pictures. Some might do not even have pictures at all. It can also take longer time to understand and practice something by text rather than through visual. This make someone lost interest and could decrease the learning and practicing efficiency. Some people might have it difficult to practice or implement what they must do and what they must avoid during fasting since there are so many rules to follow during fasting on Ramadan.

1.3 Objective

The objectives of this project are:

- i. To identify web comics elements and component for practicing fasting during Ramadan
- ii. To develop web comics based on the identified elements and components
- iii. To evaluate the effectiveness of web comics for fasting practice during Ramadan

1.4 Scope

There are two scope in this project to be included which is:

- i. **Target Audience** – The target user is for all range of age especially for student in order to make them more understand on learning and practice fasting during Ramadan. In addition, it also can be applied to general as it contains knowledge about fasting during Ramadan.
- ii. **Content** – There are a few contents or episodes to be included in the web comic:

- a. What is Fasting?
- b. Intention - Niyyah
- c. Suhoor
- d. Break Fasting
- e. Sunnah
- f. Bonus: Forgot

1.5 Project Significance

The purpose of this project is to act as a medium in order to help students in better understanding in learning and practicing fasting during Ramadan through web comic. The web comic will include a few elements such as characters, speech bubbles, panels, and captions. All elements in the comic will make users attracted and easier to learn and understand. This web comic project also is easier to access anywhere and anytime by using the technology nowadays. It also comes with contents where it makes it easier for users to search for certain topics to learn and practice, without having to read the whole comic.

1.6 Conclusion

The expected outcome of this project is users can easily learn, understand, and improve their fasting practice during Ramadan through this web comic, with all the elements and components provided. Users can also access this web comic easily. To conclude, this chapter explains the general overview of the project, problem statements, the objective of the project, and solution in order to overcome the problem, which leads to the objective of the proposed project, and the project significance.

CHAPTER 2: LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 Introduction

Literature review is a summary of a subject field that support a specific research. The literature review contains analysis form various sources and materials such as books, journals, articles, and web resources. These materials and resources search will be useful in identifying relevant documents and sources based on the subject field.

2.2 Domain

Domain related to this project is web-based comic. According to Ilamsyah et al, (2020), virtual comic books are now more advancing and developing in this era of internet and technology with the evidence of the increasing number of shares of virtual comic book. Digital comics have more advantages compared to the printed one as it have borderless ability such as it is not limited by patterns and layout, and it is also can be stored and shared to various medium digitally (Rina et al., 2020).

Faisal D. et al, (2020) stated that printed comic book has several pages that can be turn one by one. It is contrast with webcomic which only has one long vertical page serve as infinite canvas. This make it easier and flexible for readers whether they want to use laptop or phone to scroll down to read. Digital comic is expected to help in active, creative and innovative learning which can help student understand the contents presented (Rina et al, 2020). However digital comic is not tied with format. In fact, they can define their own format (Ditmar, 2012). Meaning that the format is not bound by the paper size format as long as the story can be read and can be scroll over.

Thus, this project is to develop a web-based comic on fasting practice during Ramadan and to evaluate the effectiveness of the web comic. The web comic covers basic practice knowledge about fasting during Ramadan, which is suitable for children and student. It aims to make the target audience understand and can practice the basic knowledge about fasting during Ramadan. A few contents included in the web comic are 'What is Fasting?', 'Intention (Niyyah)', 'Suhoor', 'Break Fasting', 'Sunnah', and 'Bonus: Forgot'.

2.3 Existing System

Early comic or traditional comic is a paper-based comic. There are two type of comic which is comic strip which found in magazine or newspaper and the other one is comic book. Both type are in printed form comic where people need to buy or borrow from library in order to read them. However, in this era of internet and technology, web comic or digital comic is more popular as it is easier to get and read.

The comic book *Kompilasi Komik Adik Muslim Spesial Ramadan* published by Ana Muslim Sdn Bhd is one of the example that is similar with this project. The comic book consist of 100% colored comic. With various style of layouts, and not only contains comic. The book is packed with full of fasting practice during Ramadan. There are 3 types of speech balloons included in the comic. The first one is rounded balloon with tail which is use for public speech and is intended show that the character is speaking clearly to be heard by other characters. The second balloon used is serrated contour balloon, which is use to express character's emotion like angry or excited while screaming. Thought balloon, which is specifically to show thought by a character which is not clearly spoken also used in the comic.



Figure 2.1: Super Alyaa Batrisyia Malam Raya from Ana Muslim Comic

Another existing system that is related to this project is the comic strip. The comic strip on a blog site with the title “What We Love About Ramadan”. The comic strip was made by Ernest Ng on <http://dontlikethatbro.blogspot.com/2013/07/what-we-love-about-ramadan.html>. The comic is just a simple comic strip on what the author likes during Ramadan. Drawn with a traditional comic format with similar layout which is regular 2x3 borderline panel. There are 2 types of speech balloons included in the comic. The first one is rounded balloon with tail which is intended to show that the character is speaking clearly to be heard by other characters. The second balloon used is serrated contour balloon, which is use to express character’s emotion like angry or excited while screaming. The comic is not a storyline comic, which the author includes total of 6 different situations in a layout consist of 6 panels.



Figure 2.2: What We Love About Ramadan Comic Strip
<http://dontlikethatbro.blogspot.com/2013/07/what-we-love-about-ramadan.html>

The third existing system similar with this project is from The Muslim Show that is published on Facebook. It not only focusing on Ramadan but entirely theme about da'wah. The comics from The Muslim Show uses semiotic symbols. The semiotics symbols used in the comics is to study the meaning behind the created symbol (Azizi, 2021). The characters in the comic are drawn in the form of silhouette. All the comics come with various layout, and some even have only 1 panel layout. The speech balloons is drawn differently in each comic which some in the panel and some are outside panel. Most of the speech balloons used is rounded balloon with tail to show that the character is speaking and is intended to be heard by the other characters in the comic.

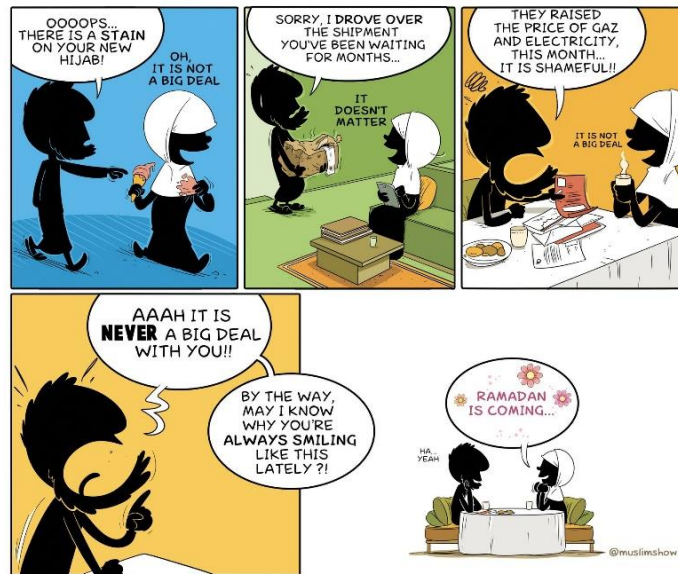


Figure 2.3: The Muslim Show Web Comic Strip - Welcoming Ramadan
<https://www.facebook.com/themuslimshow/photos/a.235733069882108/2039545816167482/?type=3&theater>

The last web comic that existed similar with this project is a web comic with the title 'Journey of a Muslim' in Webtoon platform. The comic covers various topics related to Muslim and one of the sub-topics is 'Ramadan Special: First Ramadan'. It is a comic strip with only short stories for each sub-topic. This web comic comes with a similar vertical sequence layout with a 4x1 border line panel. The speech balloons used in this comic are the same as those drawn inside the panel. Most of the speech balloons used are rounded balloons with tails which indicate that the character is speaking. 'Journey of a Muslim' was drawn in black and white. No colors were added to each of the sub-topics. Figure 2.4 shows only a snippet of the comic.



MUSLIM MANGA

Journey of a Muslim

Comic by Zhar



Figure 2.4: Web Comic Journey of a Muslim

2.3.1 Comparison of Existing System

Table 2.1: Comparison of Existing System

	Ana Muslim's Comic Book: <i>Kompilasi Komik Adik Muslim Spesial Ramadan</i>	What We Love About Ramadan Web Comic Strip	The Muslim Show Web Comic Strip	Journey of a Muslim Web Comic	Ramadan Practice Web Comic
Layout and Panel	Mixed layout and panel	Similar layout with borderline panel	Mixed layout and panel	Similar layout with borderline panel	Mixed layout and panel
Various speech balloon	Yes	Yes	Yes	No	Yes
Color	Colorful	Colorful	Colorful but with silhouette character	Black and white	Colorful
Audio	No	No	No	No	No
Target User	Children	All range	All range	All range	All range
Platform	Book	Web - Blog	Web - Facebook	Webtoon	Webtoon
Language	Malay	English	English	English	English

2.4 Project Methodology

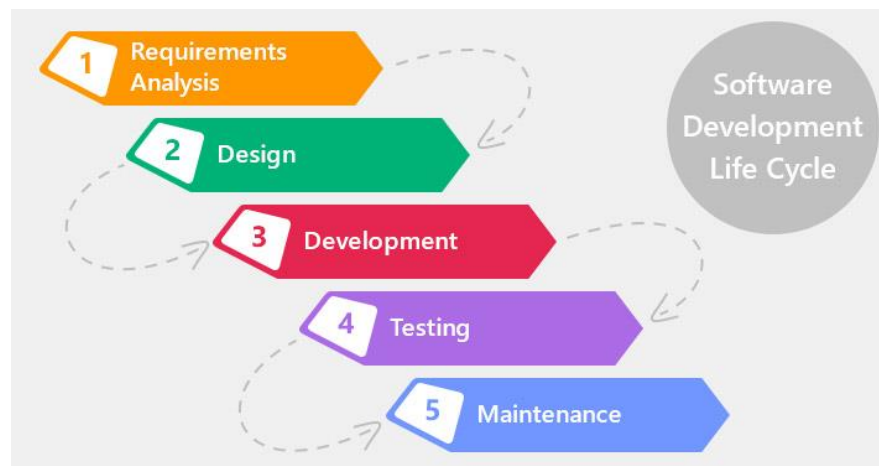


Figure 2.5: Waterfall Methodology

The project methodology used in building this project is waterfall methodology. Waterfall methodology is a sequential development model (Balaji, 2012). The phases in this methodology must be done one by one, which mean that the next phase cannot be started yet until phase one is done. Since the requirement for web comic is clearly defined and not so many changes is made for the project, waterfall methodology is the most suitable approach. In this methodology, the end users will not participate in the development process but will evaluate the end product whether it meet the requirement or not.

The first phase in waterfall methodology is requirements analysis. During this phase, the requirement such as purpose and design to build the project is identified. The elements and components that is needed to build the web comic is identified during this phase. Many research is done online using many platform such as online journal, web, and book. The software and hardware requirements that is needed to build this project also be identified in this phase. The identification of platform to publish the web comic and also all the requirement in order to publish using the platform.

The next phase after the requirements has been identified is to design. This phase is made based on the requirements that have been identified in the first phase. During this phase, the contents or episodes that is going to be developed in the web

comic is identified. It is what the Ramadan web comic will cover, that are the titles for each story in the web comic. After the contents have been identified, the storyline for each episodes take place. After the storyline have been made, the next step is to do the storyboard and sketch the overall comic.

In the development phase, where the web comic strip to be developed based on the storyline and storyboard in the previous phase. In this phase, the overall drawing, coloring, and finalization will be made. This must follows the requirement for the environment setup such as the size of each pages of the comic. Each of the result or pages that have been draw and colored then will be combined and arrange to produce and publish the web comic.

The next phase which is the testing phase is done after all the development process is finished. This phase will help in finding any flaws or errors in the web comic. It also required end users to evaluate the final product so that the final phase which is the maintenance phase can take place. The final phase is where the modification, or improvements is made to meet the objectives of the project.

2.5 Project Requirements

The requirements of this project includes hardware and software requirement. The project requirement is needed as to make sure that the development is successful.

2.5.1 Software Requirements

The list of software used in order to develop the Web-based Comic on Fasting Practice during Ramadan are:

- i. ibisPaint X application – to illustrate and draw comic
- ii. Adobe Illustrator - to illustrate and draw comic
- iii. Webtoon - a platform to publish the web comic

2.5.2 Hardware Requirements

The list of hardware used in order to develop the Web-based Comic on Fasting Practice during Ramadan are:

- i. Laptop
- ii. Smartphone
- iii. Stylus pen

2.6 Conclusion

This chapter explained the existing systems and the comparison between them. The project methodology, which is explain the method and process in developing the project also explained in this chapter. The hardware and software required in order to develop the project is also stated. The next chapter will discuss on the analysis of the project.

CHAPTER 3: ANALYSIS

3.1 Introduction

Chapter 3 analysis will further explain the result from the previous chapter. On the current scenario analysis, it will explain about the previous existing system, discuss the problem or issue arise, compare, and fixing what should be fix to fulfil the requirement to complete the project. This will also include the hardware requirement, software requirement, gantt chart, and milestone to complete the project.

3.2 Current Scenario Analysis

Comic comes with various type and have been around for years. Years ago, there are only comic book, which is actually a collection of comics that were published in a form of book and comic strip, which were usually found in either magazines, newspapers. However, the world of comic have evolved. With the advance development of science and technology, comic has been digitalized. Thus, digital comic or web comic come to our life. It has become a trend to all comic readers. As internet and technology have become an essential in life, comic has become easier to find and read. Especially with the existence of the web comic. While back then, people need to search and go to a certain book store to buy comic.

While looking at the current existing comics, there are only a few topic related to Ramadan can be found. As mentioned in chapter 2, one comic related to Ramadan topic was found in a form of comic book which is the Ana Muslim's comic book '*Kompilasi Komik Adik Muslim Special Ramadan*'. The other Ramadan related comics are in the form of web comic strip which were released in different platforms such as blog, Facebook, and an online web platform called Webtoon.

These are the analysis of current existing comic:

Table 3.1: Current Analysis

	Current Analysis
Ana Muslim's Comic Book: <i>Kompilasi Komik Adik Muslim Spesial Ramadan</i>	In a form of comic book. Use traditional mixed layout and panel. Use various type of speech balloon to express word and feeling. Colorful. Have no audio included. Targeted for children. Using Malay.
What We Love About Ramadan Web Comic Strip	In a form of web comic strip. Blog as the platform. Use traditional similar layout with borderline panel. Use various type of speech balloon to express word and feeling. Colorful. Have no audio included. Targeted for all age range. Using English.
The Muslim Show Web Comic Strip	In a form of web comic strip. Facebook as the platform. Use traditional mixed layout and panel. Use various type of speech balloon to express word and feeling. Colorful but characters were drawn in silhouette. Have no audio included. Targeted for all age range. Using English.
Journey of a Muslim Web Comic	In a form of web comic. Webtoon as the platform. Use similar layout and borderline panel in vertical sequence for easy read and scroll. Use various type of speech balloon to express word and feeling. Colorful. Have no audio included. Targeted for all age range. Using English.

3.3 Requirement Analysis

This section explains how the project developed based on the analysis. It clarifies all process and story on how is the project is developed to meet specific requirement.

3.3.1 Project Requirement – Analysis of system to be developed

Requirement Gathering

The web comic is based on fasting during Ramadan topic in Webtoon platform. It is to expose and storytelling about fasting during Ramadan. The reason is because there are only a few web comic on that topic exist in the platform. Even in other web platform, the topic about fasting during Ramadan is not that much. This is because most of the time, people learn about fasting during Ramadan through book, which contains no picture and storytelling.

To publish using Webtoon platform, there are a few requirement to be fulfil. The series or comic that will be developed need to have a title, 1 or more genre, series summary, square thumbnail, and vertical thumbnail. These are the requirements to make the series thumbnail:

Table 3.2: Series Thumbnail Requirement

	Square Thumbnail	Vertical Thumbnail
Size	1080x1080px and less than 500KB	1080x1920px and less than 700KB
Format	.jpg, .jpeg, .png	.jpg, .jpeg, .png

There are also some requirement for each episodes in the series. Each episodes must have a thumbnail, title, and last but not least the pages of the comic. The requirement were stated in the table 3.3. These requirement are needed to make sure that

Table 3.3: Requirement of Each Episode

	Thumbnail	Pages
Size	160x151px and less than 500kb	800x1280px and less than 2MB
Format	.jpg, .jpeg, .png	.jpg, .jpeg, .png

Other	File name can only contains English letters and numbers.	Since it is a vertical sequence comic, pages can be uploaded up to 100pages and less than 20MB total.
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The overall web comic using mixed layout and panel. There are borderline panel, borderless panel, and semi-borderless panel. The comic is drawn in a vertical sequence layout to meet the requirement to publish on Webtoon. Since Webtoon supported for mobile application, the vertical sequence layout is the best to portrait the comic. The user does not need to zoom if it is drawn in vertical sequence while if it is drawn in traditional layout, the readers need to zoom in and out to read the whole comic.



Figure 3.1: Example of Borderline Panel



Figure 3.2: Example of Borderless Panel



Figure 3.3: Example of Semi-Borderless Panel

There are a few other elements of web comic to fulfil the requirement for this project. One of them is the speech balloon. This comic use various speech balloon. Speech balloon is important to describe how the character emotion and way of talk. The most common used balloon are rounded balloon, thought balloon, and serrated contour balloon. The use of rounded balloon with tail or some called it as speech balloon indicate that the character is speaking and is intended to be heard by other character. While the serrated contour balloon is to express that the character is either angry, screaming, or talking loudly. Lastly, the thought balloon is used to show that the character is having a thought by him/herself. The figure shows the use of serrated balloon and rounded balloon.



Figure 3.4: Serrated Contour Balloon and Rounded Balloon

The web comic tells story about how a family consists of four practicing their fasting during Ramadan. They are dad, mom, Ammar, and Mimi. The title of the web comic is 'Ramadan Practice'. It contains 6 subtopics or episodes. All the subtopics are actually in sequence. Each of the subtopic is only a short story so that reader does not get bored reading a long story on a subtopic. It is also to ease the reader so that they can search and read on certain topic they want to read. The storyline summarization for the 6 subtopics are:

Table 3.4: Subtopic Summarization

Subtopic	Summarization
What is Fasting?	Mimi, a 5 years old kid saw a Ramadan announcement of television and ask her father about more details about fasting during Ramadan.
Intention (Niyyah)	A mother reminds his son Ammar, a 9 years old kid who is forgot to recite intention for fasting for the next day.
Suhoor	Ammar wake up early because he is excited to have the pre-dawn meal or known as suhoor and cannot wait to start fasting for the next day.
Break Fasting	Ammar is busy doing his homeworks and he wants to extend the iftar.

Sunnah	Father explaining about sunnah that can be done while fasting during Ramadan.
Bonus: Forgot	Mimi saw Ammar drinks during fasting and told their mother about that.

3.3.2 Software Requirement

In order to draw, illustrate, and publish the web comic, there are some software needed. These software requirement is important in order to compile and complete the process of developing the web comic.

The software requirement for this project are:

Table 3.5: Software Requirement and Function

Software	Function
ibisPaint X	An android application. Use to illustrate and draw the comic
Adobe Illustrator	Use to illustrate and draw the comic
Webtoon	Use to publish the web comic. It comes with either web system or mobile application

3.3.3 Hardware Requirement

There are a few hardware devices required to develop this project.

Table 3.6: Hardware Requirement and Function

Hardware	Function
----------	----------

Laptop	Use as to use the software such as Adobe Illustrator
Stylus pen	Use to draw the comic on smartphone using ibisPaint X application
Smartphone	Use as a device to use the ibisPaint X application to draw the comic

3.4 Project Schedule and Milestone

Table 3.7: Project Milestone

Milestone	Start Date	End Date
PSM 1		
Proposal briefing and submission	1/3/2021	8/3/2021
Discussion and analysis	15/3/2021	28/3/2021
Idea and design process	15/3/2021	28/3/2021
Development: Project progress 1	29/3/2021	12/4/2021
Development: Project progress 2	12/4/2021	26/4/2021
Development: Project progress 3	26/4/2021	10/5/2021
Development: Project Progress 4	10/5/2021	31/5/2021
Testing and maintenance	28/5/2021	11/6/2021
Documentation: Report	11/6/2021	18/6/2021
Presentation	18/6/2021	26/6/2021
PSM 2		

Development	19/7/2021	1/8/2021
Testing and Evaluation	2/8/2021	28/8/2021
Documentation: Report	19/7/2021	29/8/2021
Final Presentation	30/8/2021	5/9/2021
Documentation: Final report correction and submission	6/9/2021	19/9/2021

3.5 Conclusion

In conclusion, this chapter summarize all the analysis including not only current scenario analysis, and project requirement analysis but also the software and hardware requirement used according to the need of this project. All these analysis help in understanding user need and requirement and thus help in correcting and improving the project. The next chapter will be covered on the system design.

CHAPTER 4: DESIGN

4.1 Introduction

This chapter explains and visualize the designing phase during the development of the project. It shows the outcome after the analysis and requirement had been done. This is where the idea, layout, sketch and the final design phase take place.

4.2 Preliminary Design

4.2.1 Character Profile

The comic consists of 4 characters of a family. They are dad, mom, 9 years old boy named Ammar, and 5 years old girl named Mimi.

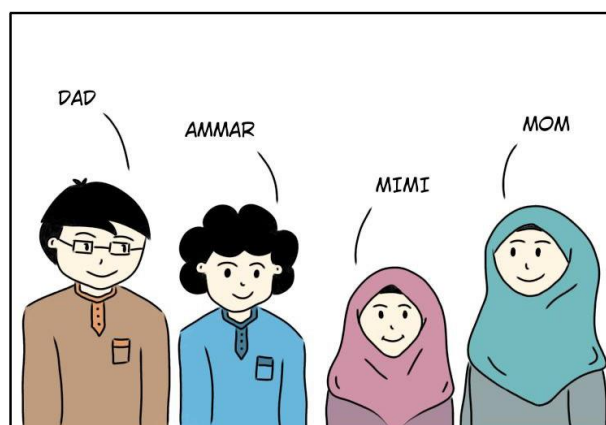


Figure 4.1: Character Profile

4.2.2 Storyline

Table 4.1: Storyline

Episodes	Storyline
<p>Episode 1: What is Fasting?</p>	<p>Situation:</p> <p>*Ramadan announcement on television.*</p> <p>Announcer: “I’m here to announce that tomorrow, 13th April equivalent to 1st Ramadan, we will begin to fast.”</p> <p>Mimi: “Fasting?”</p> <p>Mimi: “Dad, what is fasting? Just now I saw Ramadan announcement on TV”</p> <p>Dad: “We need to hold our thirst and hunger from fajr (sunrise) to maghrib (sunset).”</p> <p>Mimi: “Oh, then I need to fast tomorrow. What if I cannot hold my thirst and hunger, dad?”</p> <p>Dad: “It’s okay. Though all Muslims are obligate to fast during Ramadan...”</p> <p>Dad: “Some are exempted. Like Mimi, you are still a kid and are not compulsory to fast. But you can practice if you want.”</p> <p>Mimi: “I will try my best dad. But why we must fast especially during Ramadan?”</p> <p>Dad: “Fasting during Ramadan is the fourth pillar of Islam. It is one of mandatory acts of worship in Islam.</p> <p>Dad: “Fasting will teaches us self-control, discipline, and sacrifice.</p> <p>Dad” It also teaches us to have empathy towards the poor, be grateful, and act kind to them.</p> <p>Mimi: “Wow, that’s great! I need to start practicing fasting so that it will be easier for me when I grow up.”</p> <p>Note:</p> <p>Fasting is:</p>

	<p>To abstain from eating, drinking, and things that nullify the fast from dawn until sunset.</p> <p>Things that nullify the fast:</p> <ul style="list-style-type: none"> - Eating and drinking intentionally - Vomiting intentionally - Menstrual or childbirth bleeding - Sexual intercourse
<p>Episode 2: Intention (Niyyah)</p>	<p>Situation:</p> <p>*After isya prayer.*</p> <p>Mom: "Have you make niyyah for fasting tomorrow?"</p> <p>Ammarr: Oh, I actually forgot how to recite the niyyah.</p> <p>Dad: "You forgot, right?" "It's okay. Follow after me."</p> <p>Dad: Nawaitu sauma ghodin an'adaai fardhi syahri romadhona haadzihis sanati lillahi ta'ala</p> <p>Dad: "I intend to do obligatory fast tomorrow in the month of Ramadan this year because of Allah."</p> <p>Dad: Don't forget to recite niyyah every night. Or else... your fast will not be counted."</p> <p>Dad: "Stand up. Now let's do taraweeh prayer."</p> <p>Ammar: "Okay, dad."</p> <p>Note:</p> <p>Ramadan fasting niyyah:</p> <p>Nawaitu sauma ghodin an'adaai fardhi syahri romadhona haadzihis sanati lillahi ta'ala</p> <p>Meaning:</p> <p>I intend to do obligatory fast tomorrow in the month of Ramadan this year because of Allah.</p>

	<p>Prophet Muhammad s.a.w. said: "Whoever does not have the intention to fast before dawn, then there is no fasting for him."</p> <p>Taraweeh prayer:</p> <p>Taraweeh is a sunnah prayer performed after Isya prayer only in the month of Ramadan with 2 to 20 raka'at.</p>
Episode 3: Suhoor	<p>Situation:</p> <p>*Mom is cooking for suhoor at 4am and Ammar appear.*</p> <p>Mom: "Eh, why did you wake up so early?"</p> <p>Ammarr: "I want to eat early mom. I am excited to fast."</p> <p>*Mom go to Ammar"</p> <p>Mom: "That's good! But.. It's sunnah to delay suhoor until before fajr."</p> <p>Mom: "However... suhoor should be left because there is blessing in it."</p> <p>Amar: "Oh, I did not know that."</p> <p>Mom: "It's okay. Go to sleep again. I will wake you up at 5am."</p> <p>Mom: "I will continue cooking now."</p> <p>Ammar: "Okay, mom. Assalamualaikum."</p> <p>Mom: "Waalaikumussalam."</p> <p>Note:</p> <p>Suhoor is eating before fasting.</p> <p>It should be delayed as close to Fajr time as possible.</p> <p>Anas bin Mālik (radiyallāhu 'anhu) narrated that Allah's Messenger (salallāhu 'alaihi wasallam) said: "Take the pre-dawn meal for indeed in the pre-dawn meal (suhoor) there is a blessing."</p>

	<p>Abu Dharr narrated that Allah’s Messenger (salallāhu ‘alaihi wasallam) said: “My nation will continue in goodness so long as they hasten to break their fast and prolong the pre-fasting meal.”</p>
<p>Episode 4: Break Fasting</p>	<p>Situation:</p> <p>*A few minutes before iftar*</p> <p>*Dad, Mom, and Mimi already at the dining room.*</p> <p>Dad: “Where is Ammar?”</p> <p>Mom: “I think he is still in his room doing homework.”</p> <p>* Dad is going to Ammar’s room*</p> <p>Dad: “Ammar, let’s go. It almost maghrib now. We need to break fast.”</p> <p>Ammar: “Wait dad. I am almost done with my homeworks.”</p> <p>Dad: “Continue later. Come now. We cannot delay iftar.”</p> <p>Dad: “It’s okay to just eat dates and drink water.”</p> <p>Ammar: “Okay, dad. I am coming now.”</p> <p>*Dad and Ammar go to the dining room*</p> <p>Note:</p> <p>Breaking the fast should be done as soon as possible.</p> <p>One should at least breaking fast with dates or water.</p> <p>Dua to break fast:</p> <p>Allahumma laka shumtu wa bika amantu wa'ala rizqika afthartu birrahmatika yaa arhamar roohimin.</p> <p>Meaning:</p> <p>O Allah, because of You I fast, with You I believe, in You I submit, and with Your provision, I break the fast, by Your mercy, O Allah, the Most Merciful.</p>

	<p>Sahl bin Sa'd (radiyallāhu 'anhu) stated that Allāh's Messenger (salallāhu 'alaihi wasallam) said: "My ummah will not cease to be upon my Sunnah so long as they do not delay breaking their fast until the stars appear."</p>
Episode 5: Sunnah	<p>Situation:</p> <p>*At the mosque*</p> <p>Dad: "Help me put the money inside the box."</p> <p>Ammar: "Is this for charity?"</p> <p>Dad: "Yes. It is one of the sunnah to do not only during Ramadan but also in everyday life."</p> <p>Ammar: "Oh, is there any other sunnah to do?"</p> <p>Dad: "Yes. One of them is to seek for Laylatul Qadr on the last 10th days of Ramadan."</p> <p>Ammar: "What is Laylatul Qadr?"</p> <p>Dad: "It is the night of power. "</p> <p>Dad: "What we can do is to recite Al-Quran, do sunnah prayer, make dua, give charity, and many more."</p> <p>Ammar: "Oh I want to seek for Laylatul Qadr too."</p> <p>Dad: "That's good! For now, let's wait for mom and Mimi so we can go home together."</p> <p>Note:</p> <p>One of the sunnah during Ramadan is to seek for Laylatul Qadr.</p> <p>Things to do for Laylatul Qadr:</p> <ul style="list-style-type: none"> - Recite Al-Quran, dhikr, tasbeeh - Do sunnah prayer - Giving charity - Feeding people - Make dua


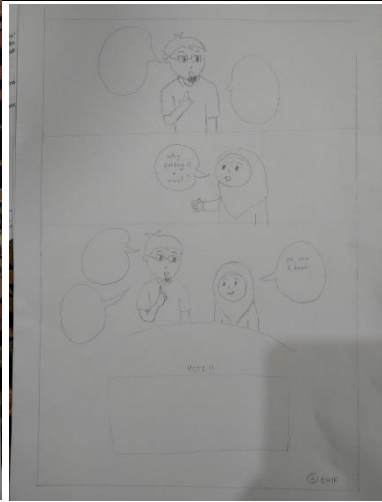
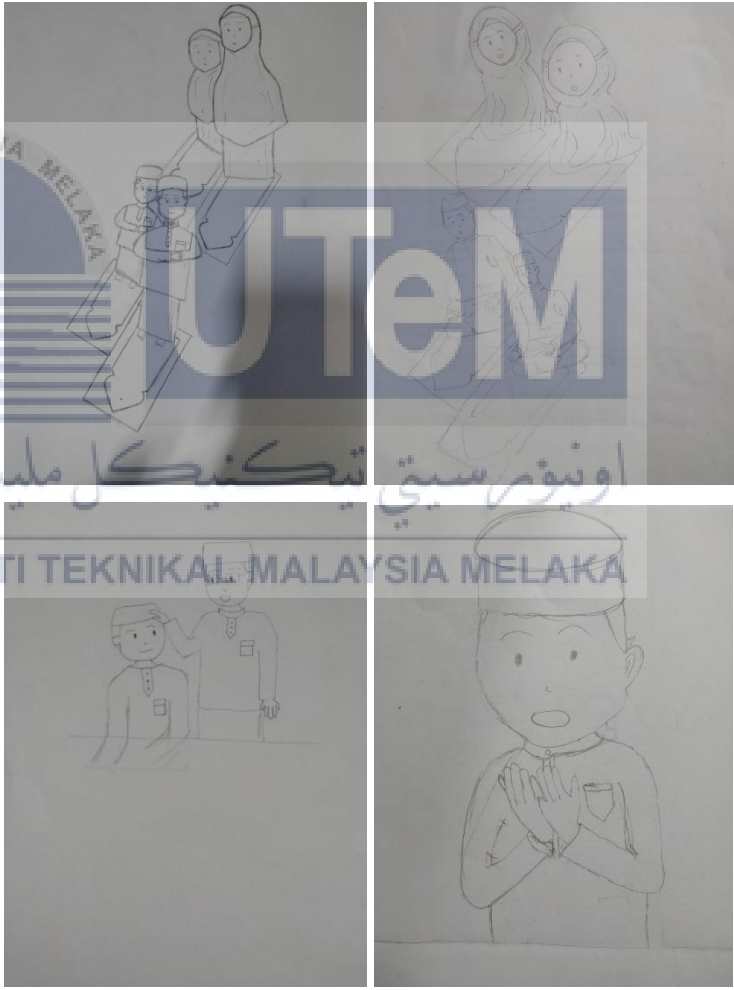
<p>Episode 6: Bonus: Forgot</p>	<p>Situation:</p> <p>*Amar just got home from playing football and drink water.”</p> <p>Mimi: “Aren’t you fasting today?”</p> <p>Mimi: “Mom! Ammar does not fast!”</p> <p>*Mom come*</p> <p>Ammar: “Oh! I forgot. What should I do now?”</p> <p>Mom: “It’s okay Ammar. Your fast is still valid since you forgot.”</p> <p>Mimi: “I want to drink too.”</p> <p>Mom: “No, you can’t. It is only valid if you unintentionally eat or drink.”</p> <p>Mimi: “Okay mom. I got your point.”</p> <p>Note:</p> <p>Abu Huraira reported: The Messenger of Allah, peace and blessings be upon him, said:</p> <p>Whoever breaks his fast forgetfully in the month of Ramadan, there is no compensation or expiration for it.</p>
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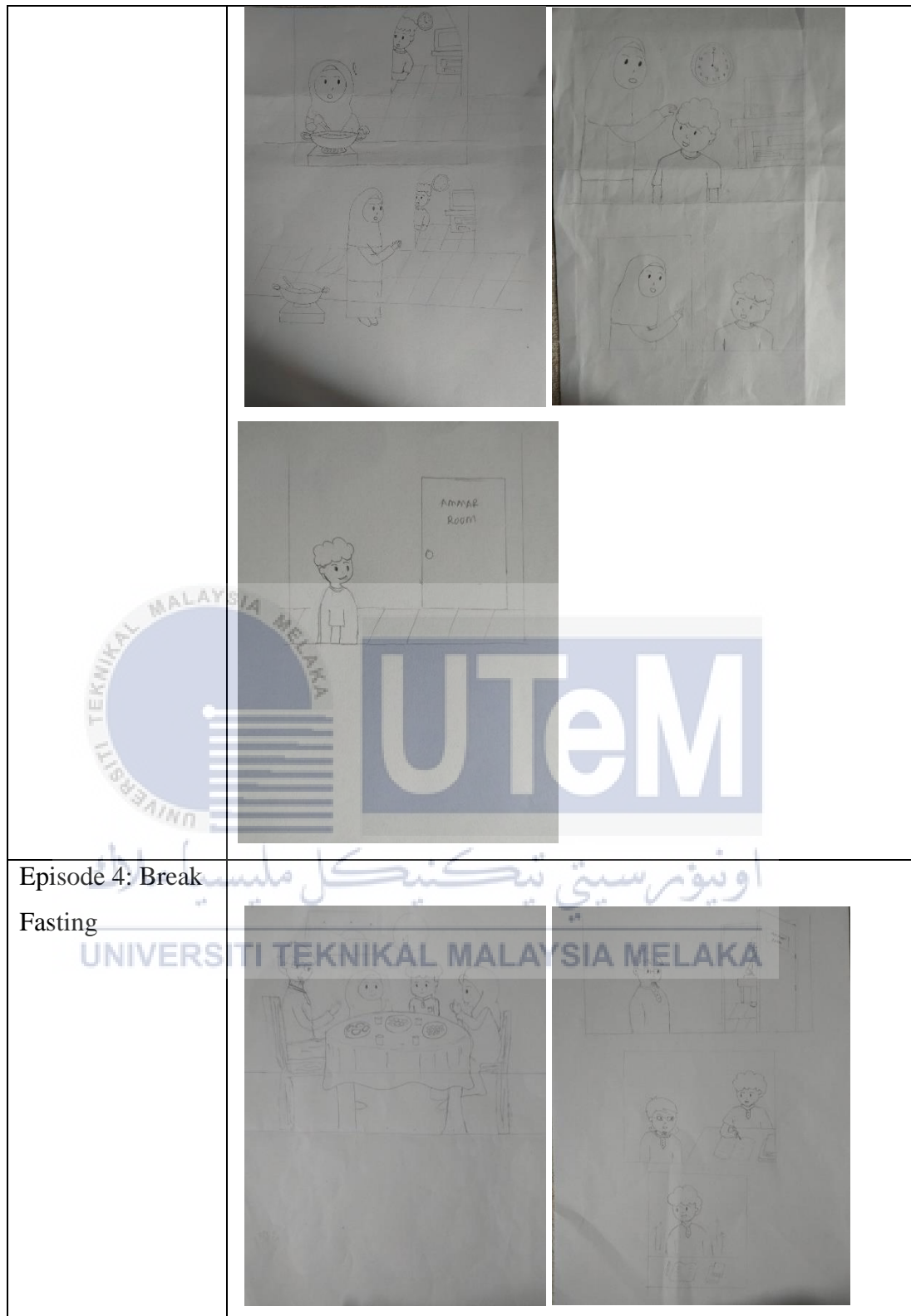
4.2.3 Storyboard Design


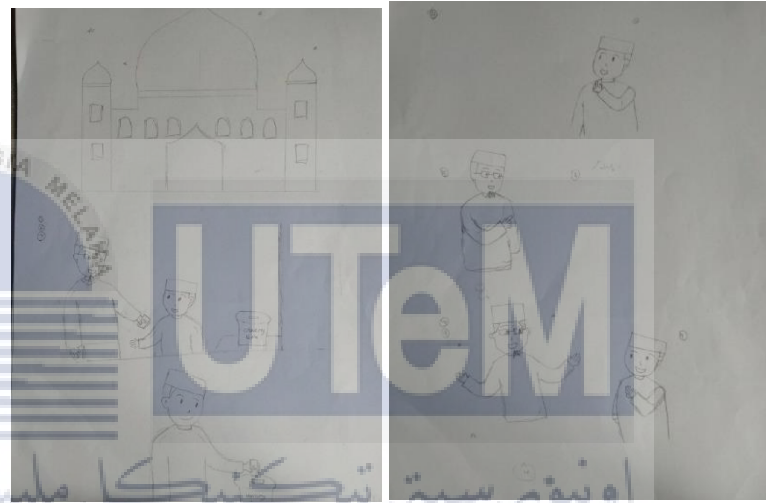

The storyboard was made referred to the storyline. The storyboard shows the visualization of the storyline. The storyboard has been sketched on paper using pencil, which then will be trace on the next phase of drawing the web comic.

Table 4.2: Storyboard Sketch

Episodes	Storyboard Sketch
Episode 1: What is Fasting?	

	 
<p>Episode 2:</p> <p>Intention</p> <p>(Niyyah)</p>	
<p>Episode 3:</p> <p>Suhoor</p>	



	
<p>Episode 5:</p> <p>Sunnah</p>	
<p>Episode 6:</p> <p>Bonus: Forgot</p>	

4.3 Conclusion

In conclusion, this chapter provide the visualization of how the project will be in the next phase. It further describe and shows the design and how it is going to be implemented. The next chapter will show the implementation of the project.



CHAPTER 5: IMPLEMENTATION

5.1 Introduction

This chapter explains and visualize the designing phase during the development of the project. It shows the outcome after the analysis and requirement had been done. This is where the idea, layout, sketch and the final design phase take place.

5.2 Media Creation

Media creation is the part where the content is create in the project. It explain more on the production of texts, graphics, video, audio, and animation involved. Since this project is about a web comic, it is mostly contains of graphics and texts. It will focus on the two elements.

5.2.1 Production of Texts

Texts play an important part in conveying the data so that it reaches the readers understanding. The use of suitable fonts plays an important role. The wrong use of fonts might get readers difficult to read, interpret and understand the message being delivered. The production of texts follows a few steps.

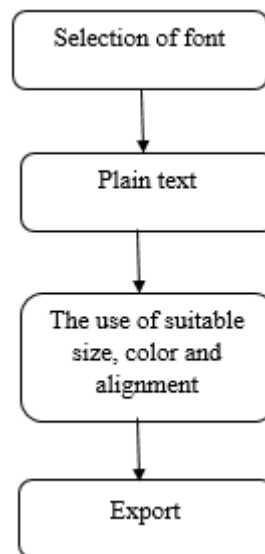


Figure 5.1: Production of Texts

A few fonts were used in the production of this web comic. The font used for the title of the comic and title of each episodes is Big Bottom Typeface Normal. The font was double-typed to create the effect of shadow and making it looks more attractive. It is really important to use the suitable fonts for the whole comic. There are a few option of fonts being used in comic and for this project, the CC Wild Words Roman is used. It is not only to ease readers to read with the correct alignment and spacing it also gives the vibe of comic.

5.1.1 Production of Graphics

Web comic cannot escape with the graphic contents. There is no comic that contains only text. Since comic is sequences of images and texts and separated by the panel alongside that is use to convey message to readers. The graphics used in this project have both vector and bitmap graphic. For title of the comic and the ‘note’ section on the last part of each episodes, it is a vector graphic created by using Adobe Illustrator. For the overall images in the web comic, it is a bitmap graphic created by using a drawing app ibisPaint X.



Figure 5.2: Production of Bitmap Graphic

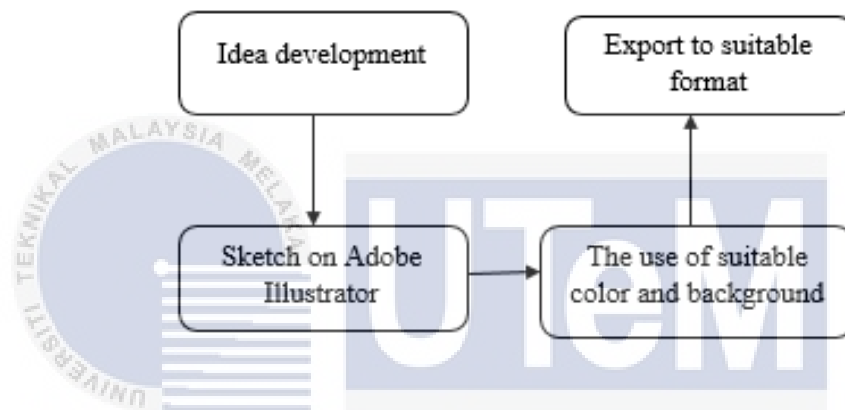


Figure 5.3: Production of Vector Graphic

5.3 Media Integration


This part explain the process of integrating the multimedia elements. For the title and the end part of web comic, it used Adobe Illustrator. While the overall graphics in the web comic used ibisPaint X mobile application. The comic was first sketch using paper and pencil. Then the sketched images were traced on the ibisPaint X application using stylus pen. All the panel, layout, coloring, speech balloon, and dialog were also be done using the ibisPaint X application. The completed comics were then published on Webtoon platform.

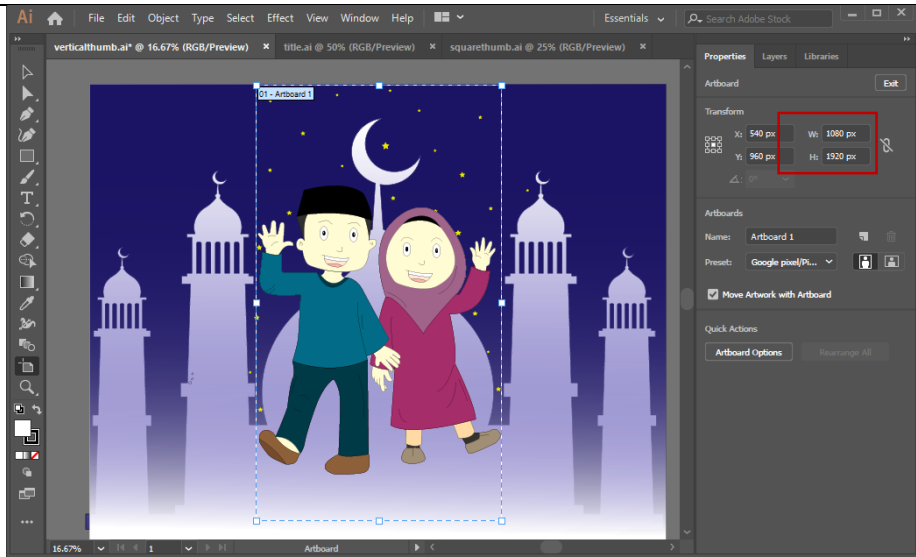
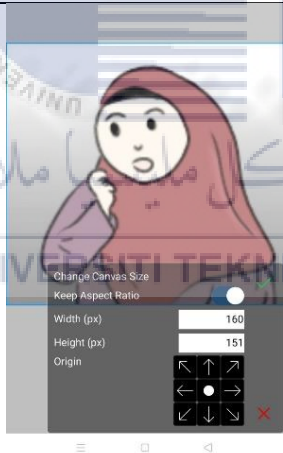
5.4 Product Configuration Management

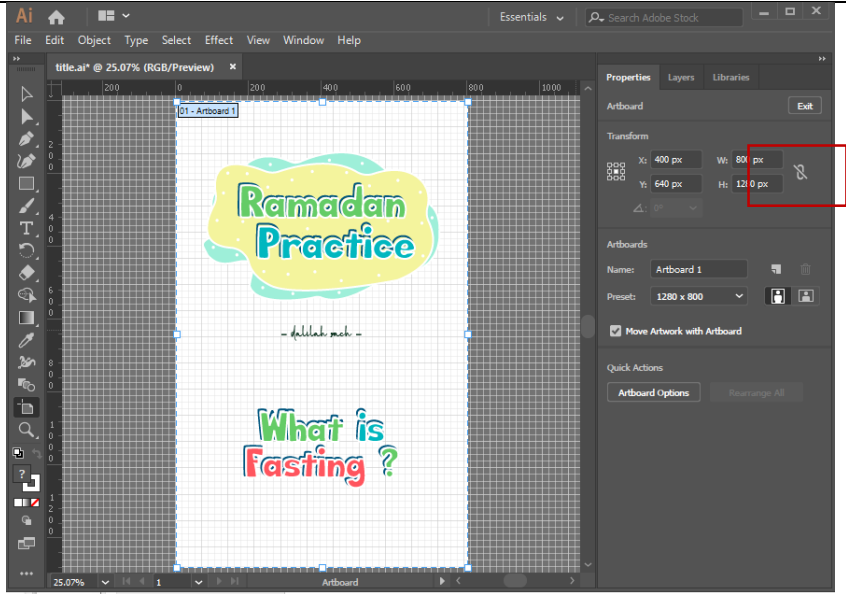
5.4.1 Configuration Environment Setup

Each project must be configured correctly so that there will be no error. For this project, it is important to set the correct size of images so that it can be uploaded to the webtoon platform. The setup for each images upload are different.

Table 5.1: Images Size Setup

	Square Thumbnail for Series
	
Size	1080x1080px and less than 500KB
Format	.jpg, .jpeg, .png
	Vertical Thumbnail for Series

	
Size	1080x1920px and less than 700KB
Format	.jpg, .jpeg, .png
	Thumbnail for Each Episode
	
Size	160x151px and less than 500kb
Format	.jpg, .jpeg, .png
Other	File name can only contains English letters and numbers.
	Pages

	
Size	160x151px and less than 500kb
Format	.jpg, .jpeg, .png
Naming	File name can only contains English letters and numbers.
Other	Since it is a vertical sequence comic, pages can be uploaded to Webtoon up to 100pages and less than 20MB total.

Square Thumbnail ⓘ




Image size must be 1080x1080.
Image must be less than 500KB.
Only JPG, JPEG, and PNG formats are allowed.

Genre 1 SLICE OF LIFE
Genre 2 (optional) ALL AGES

Series title
Ramadan Practice

Summary
Lifestyle of a small Muslim family on fasting practice during Ramadan.

Vertical Thumbnail




Image size must be 1080x1920.
Image must be less than 700KB.
Only JPG, JPEG, and PNG formats are allowed.

KEEP IN MIND
We do not allow content that contains nudity or is intended to be sexually gratifying. This includes, but is not limited to, full and partial nudity, as well as graphic depictions of sexual acts. We do not allow excessive violence or graphic content intended to shock and offend readers. This includes brutal and extended/prolonged scenes of violence and gore. More details can be found [HERE](#)

☒ Please check here if this series contains mature themes and situations.

Save series ➔

Figure 5.4: Webtoon Series Setup

1 SERIES **2 EPISODES**

HELP You can create a series in just few minutes! But, let's give you some tips before you start. [Community Policy](#) | [Uploading instructions](#)

Thumbnail **Series title** Ramadan Practice
Episode title اوڻيور سڀني تيڪنسيڪي
1 What is Fasting?

Upload file
Select file to upload. Delete All 747KB / 20MB

Recommended size: 16:700x1081.
Image must be less than 500KB.
Only JPG, JPEG, and PNG formats are allowed. File name can only be in English letters and numbers.

1.01 WF (2).jpg 2.1 WF.jpg 3.2 WF.jpg 4.3 WF.jpg 5.4 WF.jpg
6.5 WF.jpg 7.6 WF.jpg 8.7 WF Nota.jpg

Figure 5.5: Webtoon Episode Setup

5.4.2 Version Control Procedure

Any update or changes will result on a new version. This is also important as for a backup recovery from the previous version.

Table 5.2: Version Control Procedure

Version	Description
Ver1.0	Sketch design using paper and pencil
Ver1.1	Trace the sketched design on ibisPaint X
Ver1.2	Add color to the images
Ver1.3	Add dialog
Ver1.4	Save and export images
Ver1.5	Upload images on Webtoon as draft or to be published

5.5 Implementation Status

The progress of each process is recorded in the implementation status.

Table 5.3: Implementation Status

Module	Description	Status
Research and Analysis	The process of gathering data, doing research and analysis on the requirement to develop web comic	Completed
Idea and Designing	Gathering ideas on how characters should be made, storyline, sketching take place	Completed

Development	Drawing the web comic	Completed
	Episode 1: What is Fasting?	Completed
	Episode 2: Intention (Niyyah)	Completed
	Episode 3: Suhoor	Completed
	Episode 4: Break Fasting	Completed
	Episode 5: Sunnah	Completed
	Episode 6: Bonus: Forgot	Completed
Final Output	Publish the web comic.	Published
	Episode 1: What is Fasting?	Published
	Episode 2: Intention (Niyyah)	Published
	Episode 3: Suhoor	Published
	Episode 4: Break Fasting	Published
	Episode 5: Sunnah	Published
	Episode 6: Bonus: Forgot	Published

5.6 Conclusion

In conclusion, this chapter explain the whole design process and implementation to the project. The status of the implementation phase also stated here. This is to show the progress that have been made to the project. The next chapter will be discussing on the testing and evaluation.

CHAPTER 6: TESTING

6.1 Introduction

After the implementation had been done, the next phase is to do testing which will be done in this chapter. This testing phase is carried out by doing assessment and evaluation on certain type of users. This stage is critical and important to every project because it is to clarify whether the objective of the project is achieved or not. Thus, this stage determine the successfulness of the project.

6.2 Test Plan

The plan for the testing phase is divided into three types which the test user, test environment, and test schedule.

6.2.1 Test User

For this project, there are three different group of users will be involved to run the testing. The first group of users will involve Subject Matter Expert (SME). The SME is the one who have the knowledge about the subject or content of the project. This is to validate and evaluate the content of the project so that it content is not misleading. Since the project is related to fasting, the holy month of Ramadan, and Islam, the SME that is picked for this testing is a religion teacher who are teaching at Islamic school.

The second group of users that will be involved in the testing stage is Multimedia Expert. It is to evaluate the usability of the project. The testing will be

focused on the attractiveness such as the multimedia elements involved and the ease of use. The multimedia expert involved three graphic designer.

The third group of users that will be involved is the target user which is to the public. Random people will do the testing and evaluate them through the questionnaire distributed. The testing is focused on the usability and effectiveness such as the understanding of the content. Beside the questionnaires, the testing by this group also done within the Webtoon users. This is by collecting the comment, like, and subscription for the 'Ramadan Practice' web comic. This group of users is important to determine whether the objectives achieved and the project is effective to them.

Table 6.1: Test User

Group of Testing User	Name and Profession	Number of Respondent
Subject Matter Expert	1. Abdul Rahman bin Muhamad – Teacher at <i>Sekolah Kafai Abu Hanifah</i> 2. Nurul Farahain binti Jaffar – Teacher at <i>Sekolah Rendah Agama Selayang Baru</i>	2
Multimedia Expert	1. Nurul Iffah – Graphic Designer and Illustrator at MommyHanna Creative Sdn Bhd 2. Aimi Husna bt Hammad - Graphic Designer at MommyHanna Creative Sdn Bhd 3. Nurrahmadanniah - Graphic Designer at SY Printing Sdn Bhd	3
Target User	Public - Random people	40
	Public - Webtoon user	Unknown

6.2.2 Test Environment

There is no specific location for the testing phase. This is due to the unavoidable situation of pandemic where it is difficult to meet people in person. The testing environment take place through online platform using Google form and also through the platform where the web comic is published called Webtoon. The user is free to test anywhere and anytime as long as they have the Internet connection. It is recommended for the user to use smartphone for the testing phase for the best view of the web comic and for the best scrolling. Somehow, they still can use either smartphone, tablet or laptop. The user are also free to choose either they want to read through the Webtoon application or through the website. For those who want to use the application, they need search for the 'Ramadan Practice' web comic. For users who wants to read through the website, the link of the web comic will be given through the questionnaire on the Google form. The test environment also include the Webtoon users by collecting the comment, like, and subscription on the 'Ramadan Practice' web comic.

6.2.3 Test Schedule

Test schedule will include the timeframe of the testing process.

Table 6.2: Test Schedule

Test User	Date	Platform
Subject Matter Expert (SME)	16/08/2021 – 18/08/2021	Google form
Multimedia Expert	16/08/2021 – 18/08/2021	Google form
Target User	19/08/2021 – 23/08/2021	Google form and Webtoon

6.3 Test Strategy

Before implementing the test, the test strategy must be set up. This is to ensure that we get the effective test implementation. For this web comic project, the test strategy is using three different group of users using questionnaires as the testing instrument. Two of the three group of users include Subject Matter Expert (SME) and Multimedia Expert who is expert and familiar with the project. This two group of users will test and evaluate to find any misleading term, content, and issues regarding the project, the effectiveness of the project, and also the multimedia element of the project. Another user involve in the testing is the end-user who is not part of the organization. For this project, it will focused on the target user which is public. They will test for the user acceptance. The target user be given the link to read the web comic or they can search the 'Ramadan Practice' series in the Webtoon application or website. Three different set of questionnaire on Google form will be given to each group and they will evaluate whether the objective of the project is achieved or not.

6.4 Test Implementation

The test implementation focusing on the test description and test data during the implementation of the testing that is conducted on specific user.

6.4.1 Test Description

For all testing, questionnaires using Google form is distributed according to the specific group of user. The two group of user which is Multimedia Expert and Subject Matter Expert will test for the functionality, multimedia element, and also for the overall content. There are three Multimedia Expert and two Subject Matter Expert involved to do the testing. While for the random 40 target user, they do the testing using the Google form questionnaire for the effectiveness while other unknown number of Webtoon user's testing will be collected form the comment, like, and subscription on the web comic 'Ramadan Practice'.

6.4.2 Test Data

After the testing have been done, the test data will be gathered and analyzed. The result from the questionnaire determine whether the project objective is achieved

or not. The test data is gathered and then recorded in form of table to clearly summarize the testing result.

Table 6.3: Test Data of Respondent

No	Test User	Number of Respondent
1.	Subject Matter Experts	2
2.	Multimedia Expert	3
3.	Target User 1. Public 2. Webtoon User	40 Unknown

Table 6.4: Result for Subject Matter Expert

No	Question	Yes	No
Section	A. Content		
1.	All the terms used is suitable and correct.	2	
2.	All the contents are correct and relevant.	2	
3.	The contents are clear, easy to understand, and easy to learn.	2	
		Respond	
4.	Based on question 1-3, is there any corrections for the wrong terms and contents? If yes, comment the right terms and contents.	1. No 2. No	
		Score Level 1=Strongly Disagree 2=Agree 3=Moderate 4=Agree 5=Strongly Agree	

		1	2	3	4	5
5.	The web comic gives information about fasting during Ramadan.				1	1
6.	The graphic used is suitable for the web comic.				1	1
7.	The text and fonts used is easy to read.				1	1
8.	The content is suitable for all age.			1		1
9.	The contents are clear, easy to understand, easy to learn, and easy to practice.				1	1
10.	The content is arranged by episode or topic which make it easier for readers to refresh, learn, and practice.				1	1
Section	B. Effectiveness					
11.	The web comic can be used as a guide to learn fasting during Ramadan.				1	1
12.	The web comic can be used as a guide to practice fasting during Ramadan.				1	1
13.	The content arrangement is effective to deliver the information.				1	1
14.	Using web comic as a platform to learn about fasting is more effective compared to plain-text book.				1	1
15.	Learning about fasting is more convenient using web comic as it can be read and learn anywhere at any time.				1	1
		Respond				
16.	State any comment and suggestion for overall web comic.	1. Make in <i>Bahasa</i> also 2. Suggestion for episode 3 (Suhoor). Instead of asking the son to sleep, the mother can ask the son to do qiamullai or sunnah prayer.				

Table 6.5: Result for Multimedia Expert

No	Question	Score Level 1=Strongly Disagree 2=Agree 3=Moderate 4=Agree 5=Strongly Agree				
Section	A. Attractiveness	1	2	3	4	5
1.	The thumbnail for the web comic is suitable and attractive.			2		1
2.	The thumbnail for each episode of the web comic is suitable with the title.				2	1
3.	The overall multimedia elements used such as color and graphic is suitable for the web comic.			2		1
4.	The use of comic elements such as variety of balloon speech helps reader to understand the content more easily.				2	1
Section	B. Ease of Use					
5.	The text and fonts used is suitable and easy to read.				3	
6.	The web comic is easy to find and use.				2	1
7.	The content arrangement is not too complex to deliver the information.				2	1
8.	The web comic can be read and learn anywhere at any time.				2	1
		Respond				
9.	State any comment or suggestion.	1. Easy to read but notes is too long for me 2. So far so good				

Table 6.6: Result for Target User

No	Question					
Section	A. Demography	18-20	21--20	Other		
	Age	2	38			
	Gender	Male		Female		
		20		20		
	Religion	Islam	Buddhism	Hinduism	Other	
		35	1	4		
		Score Level 1=Strongly Disagree 2=Agree 3=Moderate 4=Agree 5=Strongly Agree				
Section	B. Usability	1	2	3	4	5
1.	The web comic can be used as a guide to learn and practice fasting during Ramadan.			1	9	30
2.	The image and graphic used is suitable for the web comic.				8	32
3.	The text and fonts used is easy to read.			2	9	29
4.	The contents are clear, easy to understand, easy to learn, and easy to practice.				7	33
5.	Learning about fasting is more convenient using web comic as it can be read and learn anywhere at any time.			1	7	32
Section	C. Effectiveness					
6.	I enjoy learning about fasting during Ramadan through the web comic.			2	7	31

7.	I understanding about the fasting practice during Ramadan based on the web comic.			1	10	29
8.	I think web comic is more convenient and easy to use rather than plain-text book.				6	34
9.	. I think it is easier to learn and practice about fasting during Ramadan through web comic rather than plain-text book.				9	31
10.	I will recommend others to read the web comic.				9	31
		Respond				
11.	State any comment and suggestion for overall web comic.	<p>1. Very interesting to read and easily understand</p> <p>2. Make it more colorful.</p> <p>Overall Webtoon is so interesting</p> <p>3. It is so nice and fun to read.</p> <p>I am able to understand all the context on the web comic</p> <p>4. Improve more on design and layout</p> <p>5. It was interesting but I don't have webtoon account but don't worry I will sign up later. Keep up the good work and Good luck.</p> <p>6. Best</p> <p>7. It's clear and informative</p> <p>8. Great job!</p> <p>9. Creative. Keep it up</p> <p>10. Simple and easy to understand</p>				

		<p>11. Don't have comment because the comic already awesome</p> <p>12. Short story regarding the prophet</p> <p>13. This survey had introduce me to web comic. Haven't hear about it before. Thank you.</p> <p>14. Nice work</p> <p>15. Friendly illustration, ease to understand (straight forward), colorful, divide by chapter</p> <p>16. Very useful</p> <p>17. I really enjoy reading your story. All the best!</p> <p>18. Could use some improvement on the info graphic.</p> <p>19. Okay</p> <p>20. It is so nice and very effective to use it</p>
--	--	---

6.5 Test Result and Analysis

For the testing result, all the answer from respondent is gathered. All the result and analysis is shown in form of graph and chart.

6.5.1 Subject Matter Expert

Total of two Subject Matter Expert took the testing for the project. Both work as a teacher at Islamic school. One of them is from *Sekolah* Kafai Abu Hanifah and other on is from *Sekolah Rendah Agama* Selayang Baru. The result from the Google

form distributed had been gathered and recorded in form of graph and chart. The Subject Matter Expert evaluate for the overall content, some multimedia element, and also for the effectiveness of the project.

6.5.1.1 Content

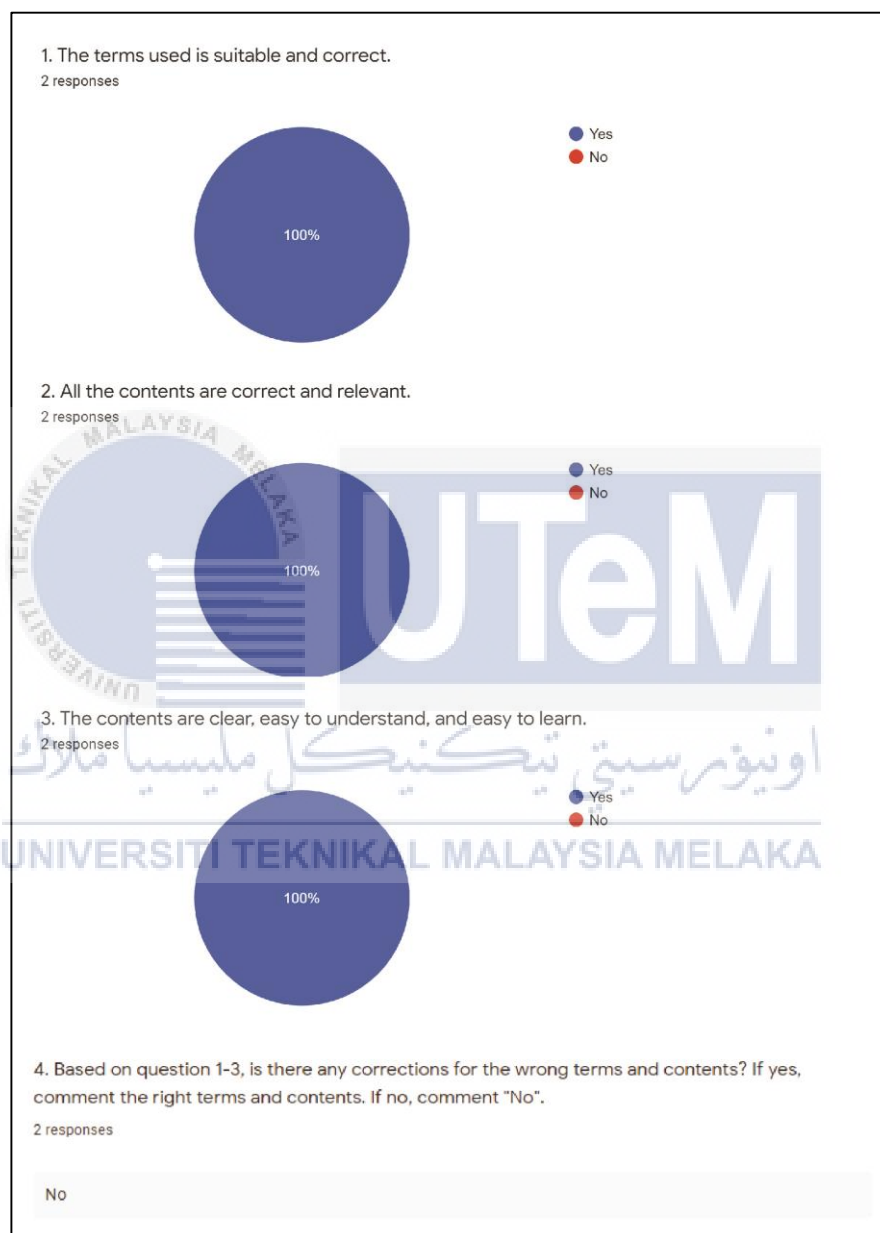


Figure 6.1: Result of Section A Question 1-4 for SME

Figure 6.1 shows the result of section A (content) for Subject Matter Expert. It shows that none of the terms and contents used in the comic are wrong. All the terms and contents are correct, clear, easy to understand, and easy to learn.

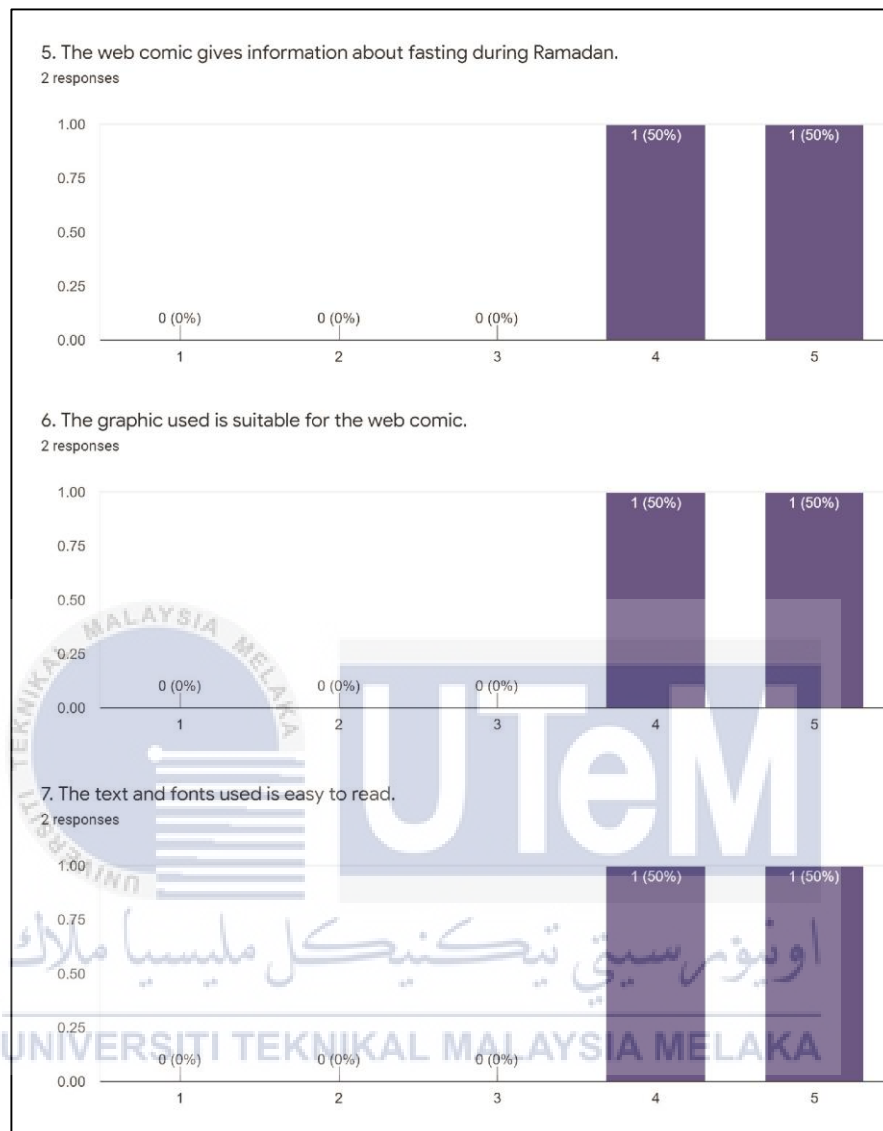


Figure 6.2: Result of Section A Question 5-7 for SME

Figure 6.2 above shows result of question 5 until 7. It shows that one Subject Matter Expert agreed that the web comic gives information about fasting during Ramadan and the other one strongly agreed on the statement. On question 6, one Subject Matter Expert agreed that the graphic used is suitable for the web comic and the other one strongly agreed on the statement. Lastly on question 7, one of them agreed that the text and fonts used is easy to read and the other one strongly agreed on the statement.

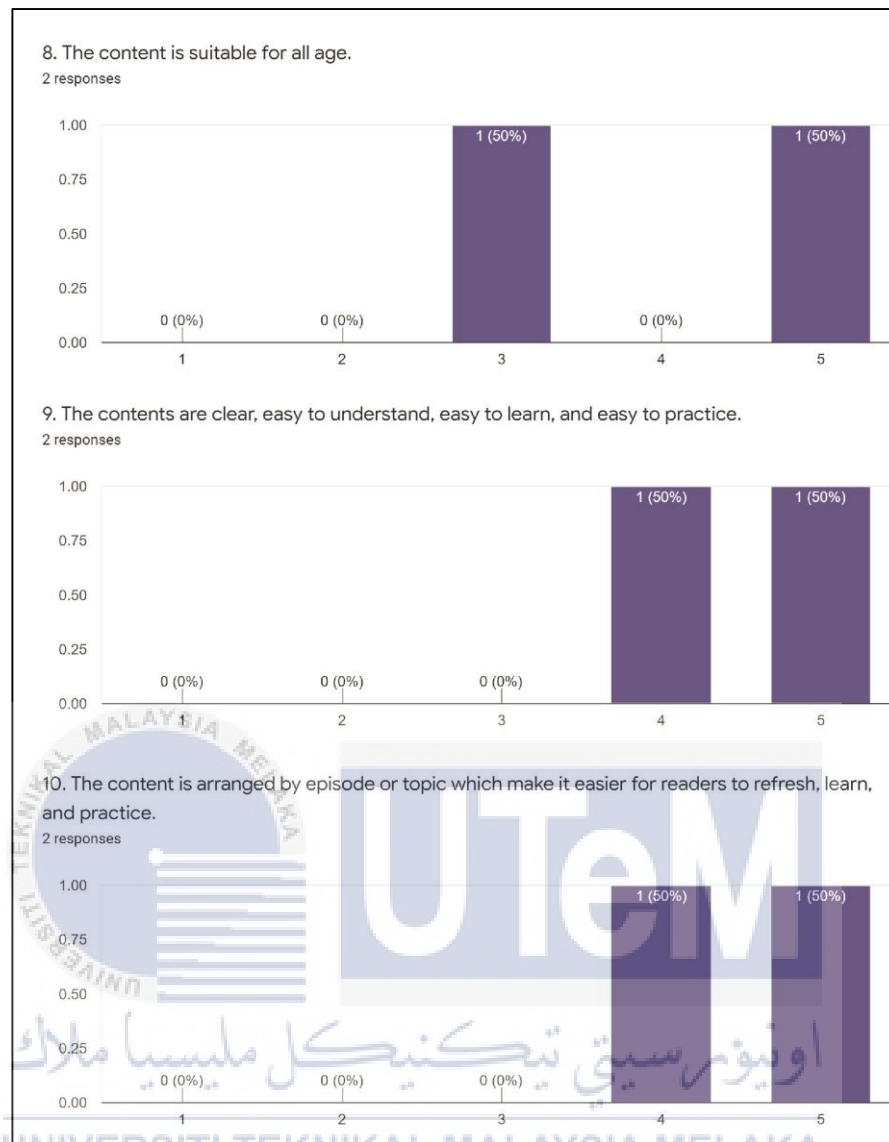


Figure 6.3: Result of Section A Question 8-10 for SME

Figure 6.3 above shows result of question 8 until 10 for content section. It shows that one Subject Matter Expert moderately agreed that the content is suitable for all age and the other one strongly agreed on the statement. On question 9, one Subject Matter Expert agreed that the contents are clear, easy to understand, easy to learn, and easy to practice and the other one strongly agreed on the statement. Lastly the last question on section A, one of them agreed that the content is arranged by episode or topic which make it easier for readers to refresh, learn, and practice and the other one strongly agreed on the statement.

6.5.1.2 Effectiveness

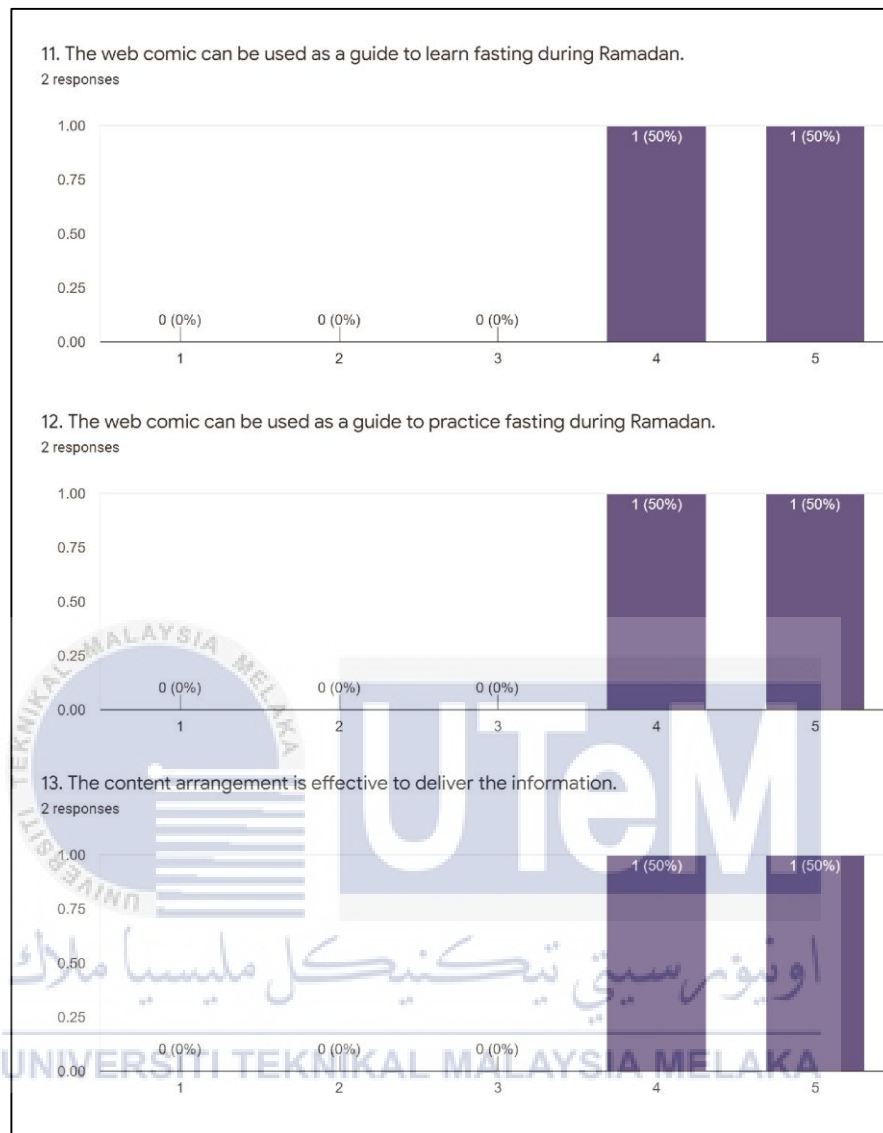


Figure 6.4: Result of Section B Question 11-13 for SME

Figure 6.4 shows the result of section B (effectiveness) for Subject Matter Expert. For question 11, it shows that one Subject Matter Expert agreed that the web comic can be used as a guide to learn fasting during Ramadan and the other one strongly agreed on the statement. On question 12, one Subject Matter Expert agreed that the web comic can be used as a guide to practice fasting during Ramadan and the other one strongly agreed on the statement. On question 13, one of them agreed that the content arrangement is effective to deliver the information and practice and the other one strongly agreed on the statement.

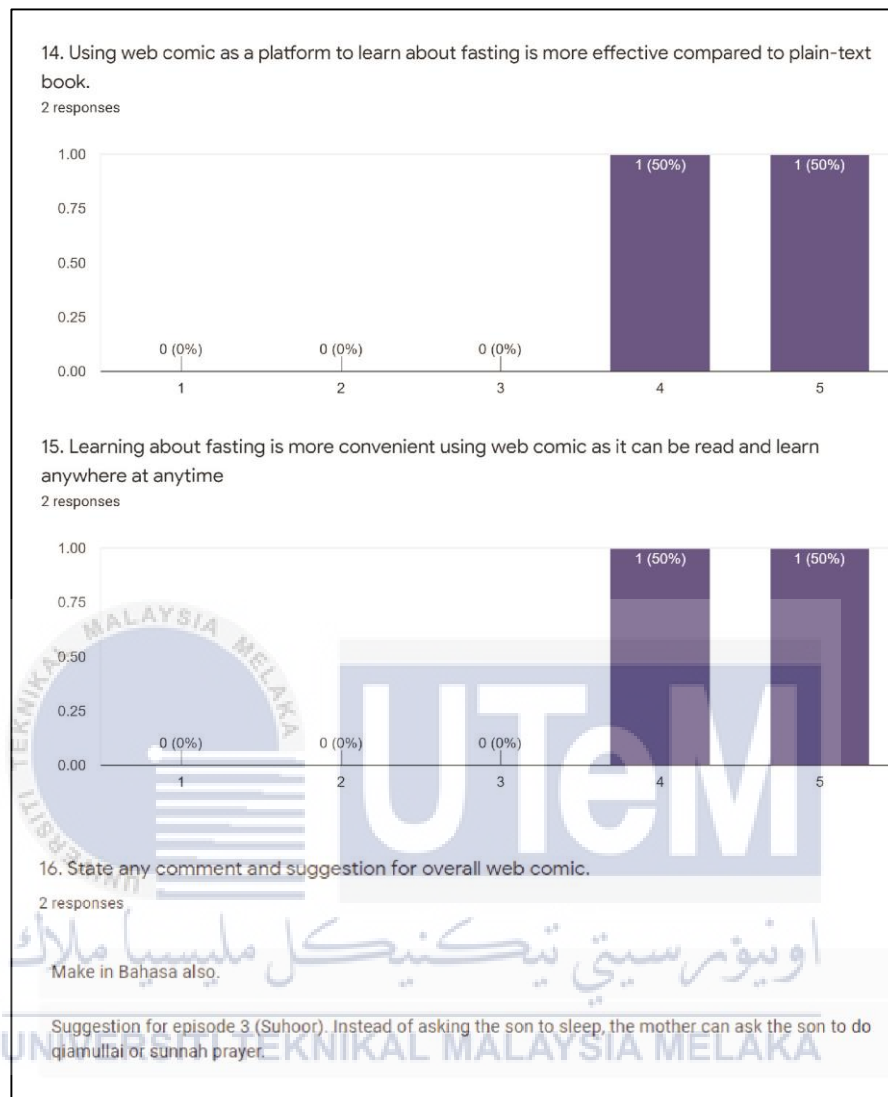


Figure 6.5: Result of Section B Question 14-16 for SME

Figure 6.5 above shows the result of section B (effectiveness) for question 14 to 16 for Subject Matter Expert. For question 14, it shows that one Subject Matter Expert agreed that using web comic as a platform to learn about fasting is more effective compared to plain-text book and the other one strongly agreed on the statement. On question 15, one of them agreed that learning about fasting is more convenient using web comic as it can be read and learn anywhere at any time and the other one strongly agreed on the statement. For the last question, one suggest to make the web comic in Malay language also and the other one make some suggestion to add something on the third episode.

6.5.2 Multimedia Expert

For this project, the Multimedia Expert involved three graphic designer and Illustrator. One of them have 5 years working experience at SY Printing Sdn Bhd as a graphic designer while the other two is at MommyHanna Creative Sdn Bhd. The questionnaire is divided into two section for usability testing which is section A for the attractiveness and section B for ease of use.

6.5.2.1 Attractiveness

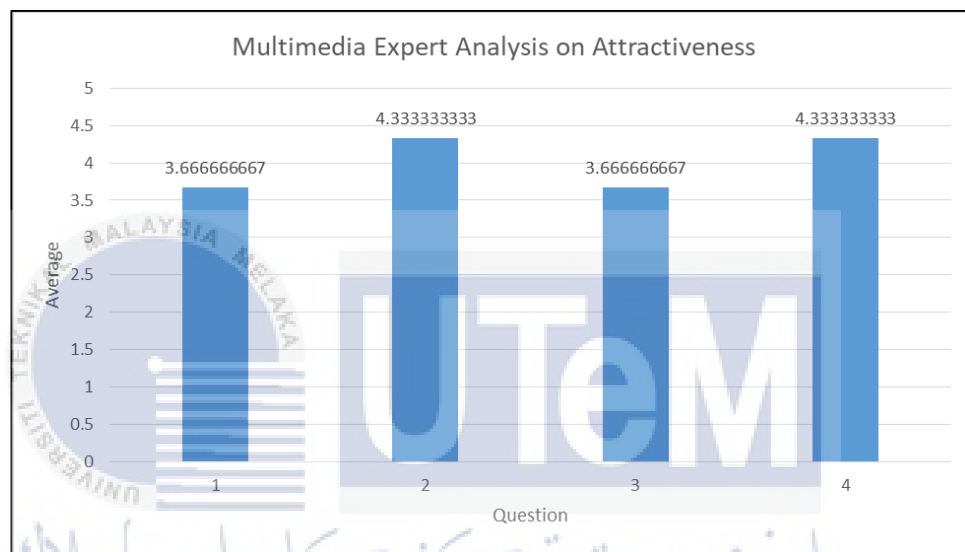


Figure 6.6: Multimedia Expert Analysis on Attractiveness

Figure 6.6 shows the result on attractiveness based on Multimedia Expert. The numbers shows the average score of each questions. It will be elaborate more on the next figure. The score shows an accepted result with the lowest 3.6 average score.

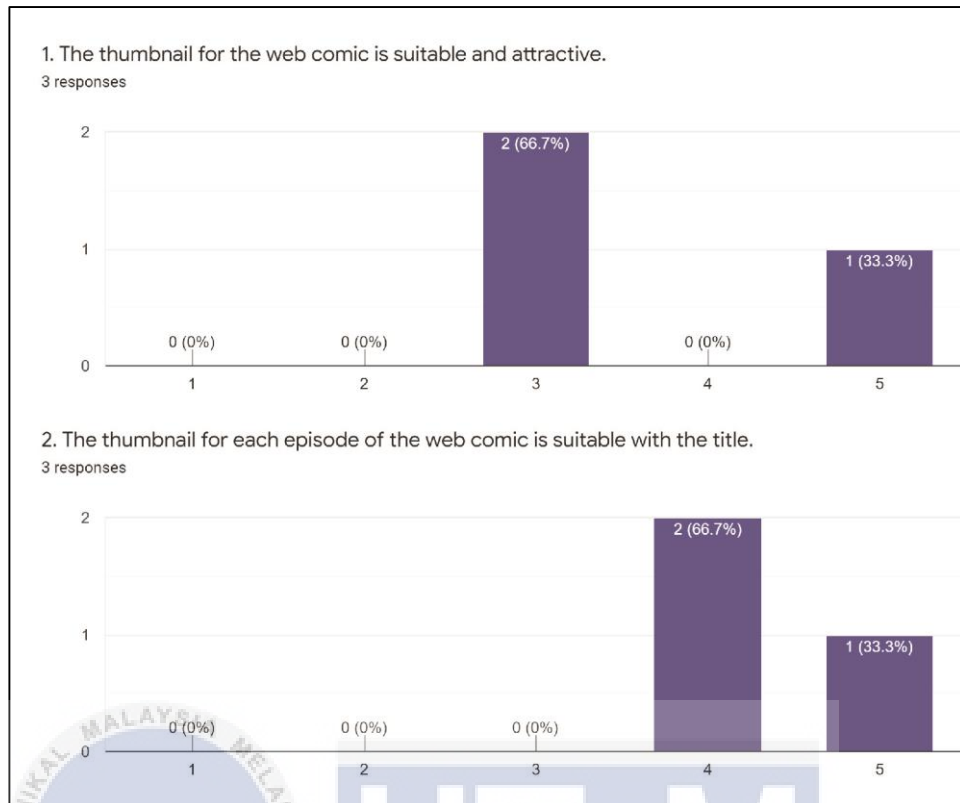


Figure 6.7: Result of Question 1-2 for Multimedia Expert

Figure 6.7 above shows the graph for the attractiveness section question 1 and 2 of the project. For the first question, two of the Multimedia Expert moderately agreed that the thumbnail for the web comic is suitable and attractive. While one of them strongly agreed that the thumbnail for the web comic is suitable and attractive. For the second question, two of them moderately agreed that the thumbnail for each of the episode of the web comic is suitable with the title and one of them strongly agreed on that.

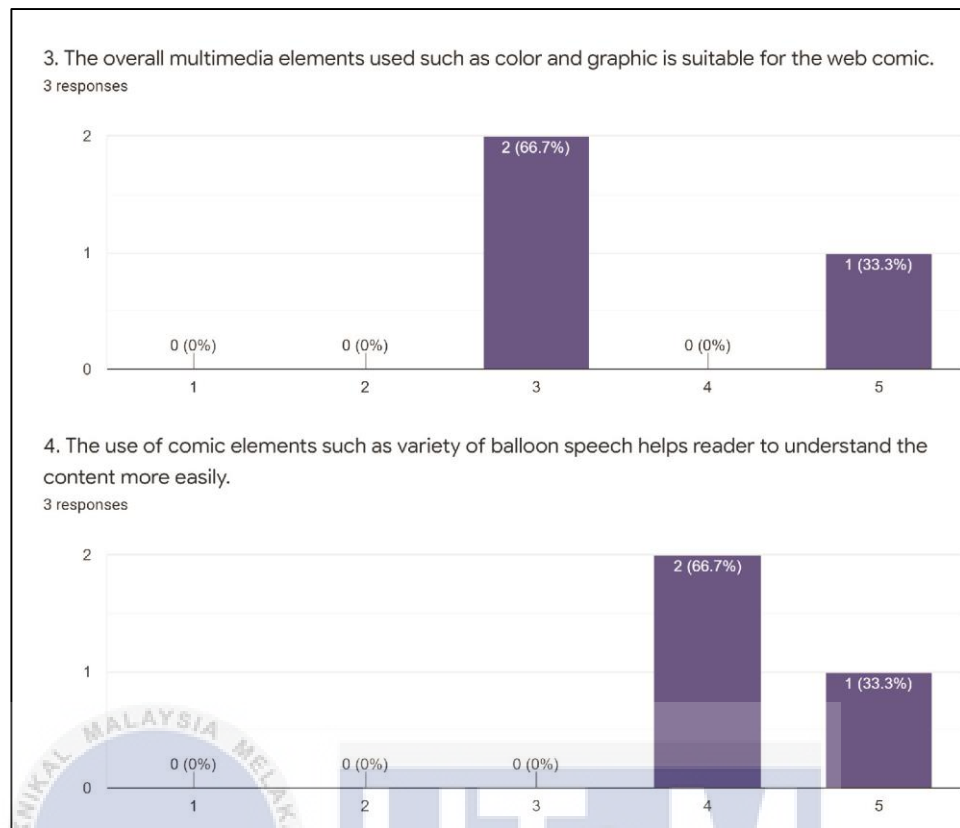


Figure 6.8: Result of Question 3-4 for Multimedia Expert

For question 3 as in Figure 6.8 above, two of the Multimedia Expert moderately agreed that the overall multimedia elements used such as color and graphic is suitable for the web comic. While one of them strongly agreed that the overall multimedia elements used such as color and graphic is suitable for the web comic. For the last question on the attractiveness, two of them agreed that the use of comic elements such as variety of balloon speech helps reader to understand the content more easily and the other one strongly agreed on it.

6.5.2.2 Ease of Use

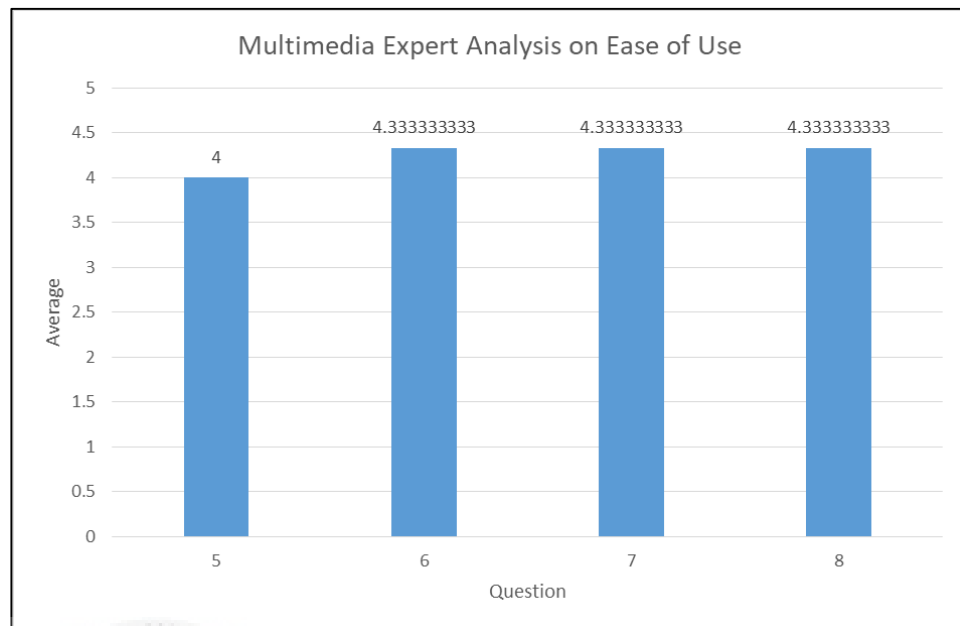


Figure 6.9: Multimedia Expert Analysis on Ease of Use

Figure 6.9 shows the result on attractiveness based on Multimedia Expert. The numbers shows the average score of each questions from question 5 until 8. It will be elaborate more on the next figure. The score shows very result with the lowest 4 average score. This is to conclude that the project is easy to use.

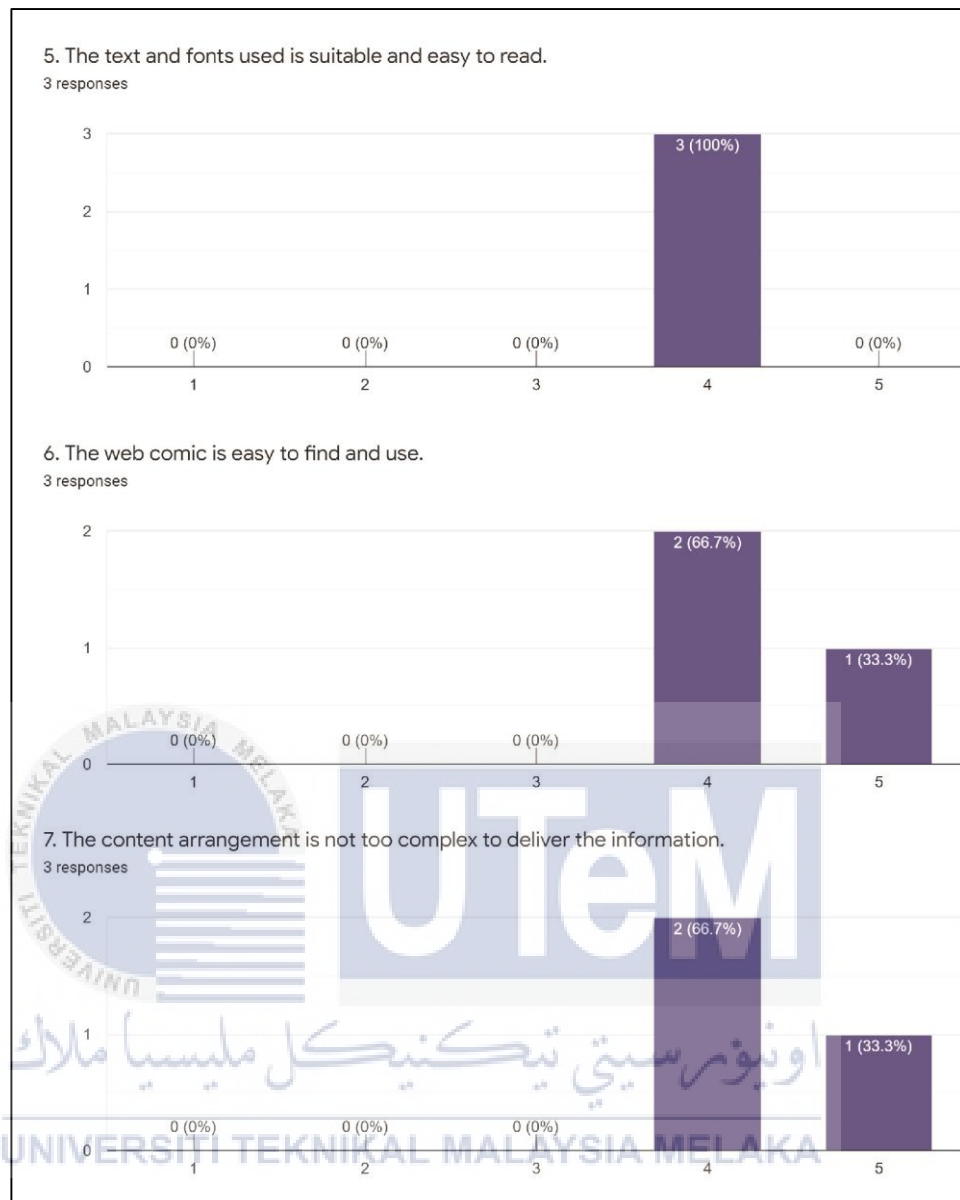


Figure 6.10: Result of Question 5-7 for Multimedia Expert

Figure 6.10 above shows the graph for the ease of use of the project. For question number 5, all of the Multimedia Expert agreed that the text and fonts used is suitable and easy to read. For question number 6, two of them agreed that the web comic is easy to find and use and one of them strongly agreed on that. For question 7, the graph shows that two of the Multimedia Expert agreed that the content arrangement is not too complex to deliver the information while the other one strongly agreed that the content arrangement is not too complex to deliver the information.

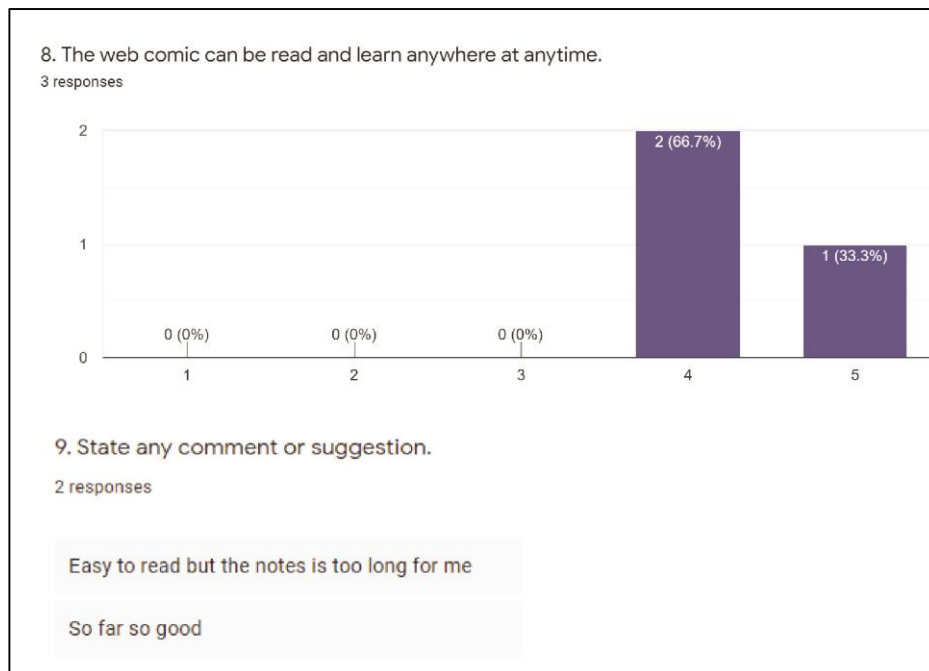


Figure 6.11: Result of Question 8-9 for Multimedia Expert

Based on Figure 6.11 question number 8, two Multimedia Expert agreed that the web comic can be read and learn anywhere at any time. While the other one strongly agreed that the web comic can be read and learn anywhere at any time. There are two comment and suggestion for the project given by the Multimedia Expert. One stated that the web comic is easy to read but the note is too long. While the other stated that the web comic is good.

6.5.3 Target User

The testing for target users is divided into two, the public and Webtoon users. Total of 40 people tested and evaluate through Google form and the other one is by collecting the comment, like, and subscription on the web comic 'Ramadan Practice' on Webtoon.

6.5.3.1 Public

Total of 40 target user involved public in the testing. Random people with different background such as age and religion has done the testing. The questionnaire is divided into three section for which is the first section is for demography, section A for usability and section B for effectiveness of the project.

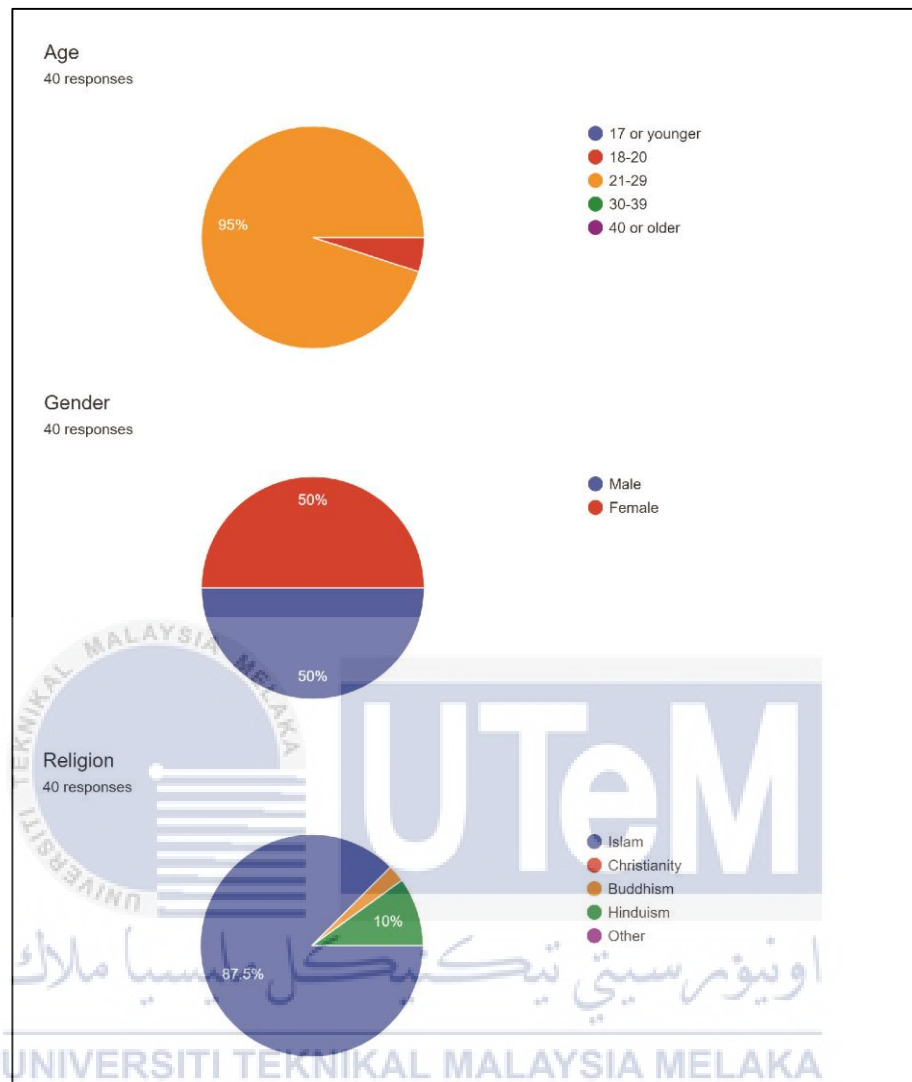
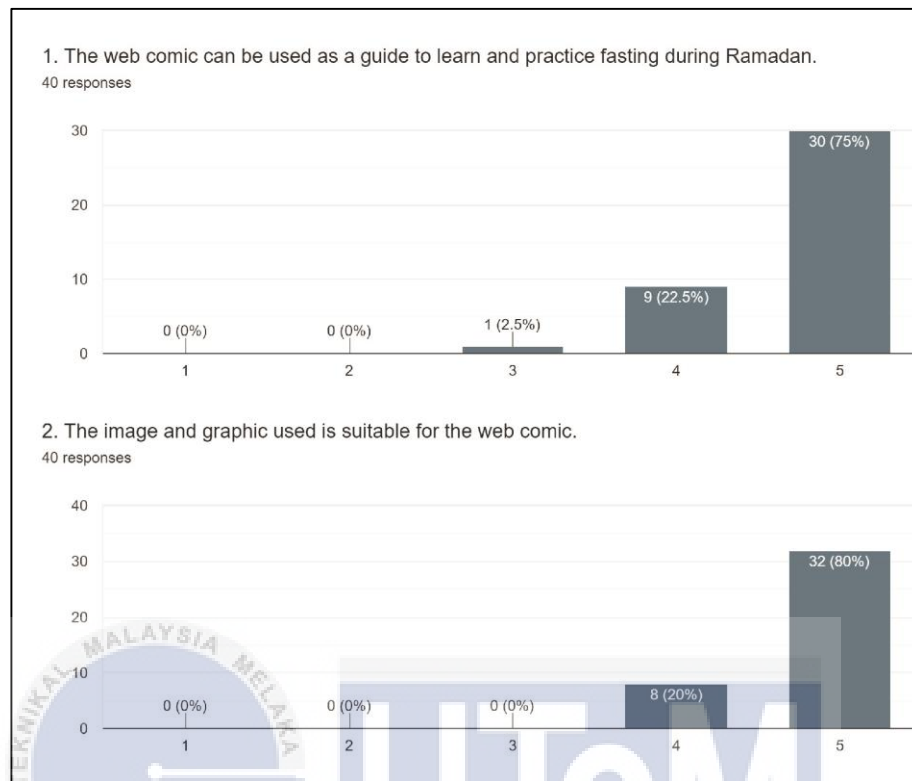
(a) *Demography*

Figure 6.12: Result of Demography Section for Public

Figure 6.12 above shows the result of demography section according to the target users. There are three questions regarding the demography to show the different backgrounds of users. The first question is about age. There are about 95% of the target users are between 21 to 29 years old and the other 5% are between 18 to 20 years old. There is a balance in gender as 50% of the target user are male and 50% are female. Among the 40 target users, there are three religion. 87.5% are Islam, 10% are Hindu, and the other 2.5% are Buddhism. This shows that web comic about fasting practice during Ramadan is not only for Muslim but other religion can also read, understand, and accept the web comic.

(b) *Usability***Figure 6.13: Result of Question 1 and 2 for Public**

The graph on the Figure 6.13 above shows that majority of the target users which is equivalent to 30 person or 75% of them are strongly agreed that the web comic can be used as a guide to learn and practice fasting during Ramadan. The other 22.5% or 9 of them agreed, and the remaining 1 person or 2.5% moderately agreed on the question.

For question 2, it shows that none of the target users disagree that the image and graphic used is suitable for the web comic. 80% of them strongly agreed that the image and graphic used is suitable for the web comic. While the other 20% of them agreed.

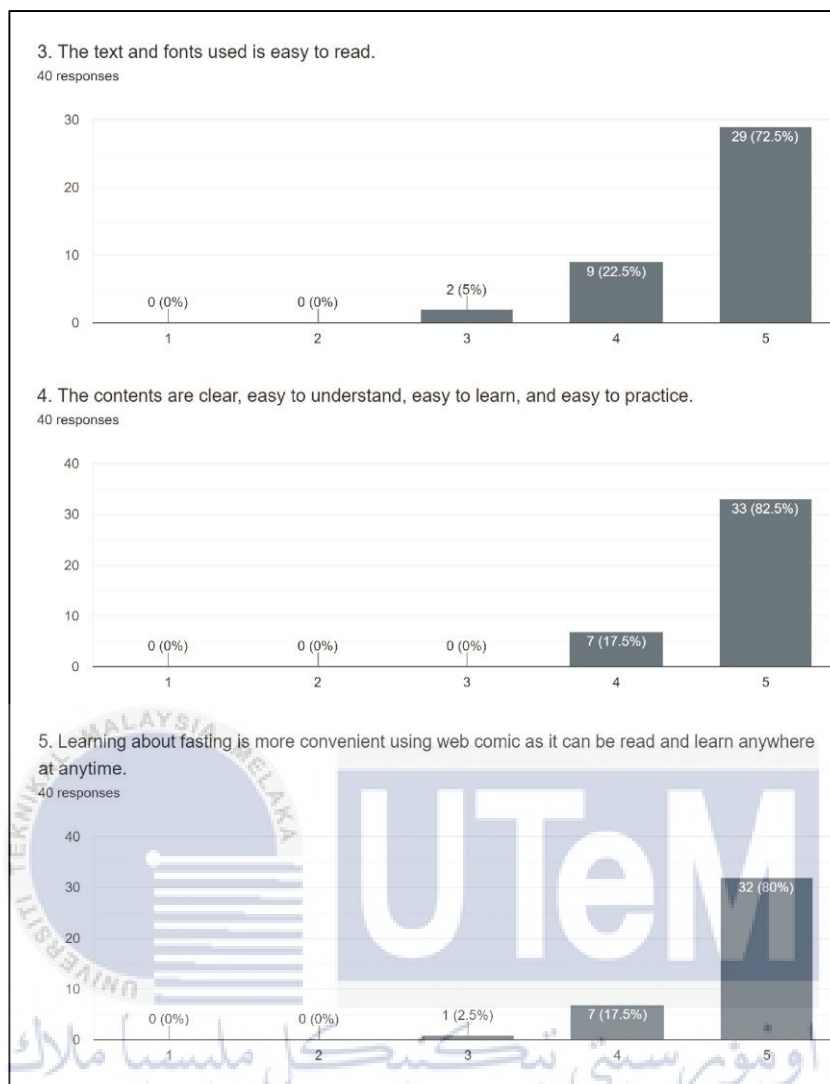


Figure 6.14: Result of Question 3-5 for Public

Figure 6.14 above shows that 72.5% of the target users strongly agreed that the text and fonts used in the web comic is easy to read. The other 22.5% of them agreed and the remaining 5% just moderately agreed that the text and fonts used is easy to read. The majority of the target users can accept that the contents are clear, easy to understand, easy to learn, and easy to practice. This can be provided according to Figure 6.12 above. Which is 82.5% of them strongly agreed and the remaining 17.5% agreed on the statement. On question 5, it shows that 80% of the target users strongly agreed that learning about fasting is more convenient using web comic as it can be read and learn anywhere at any time. While the other 17.5% of them agreed and the remaining 2.5% just moderately agreed on the statement.

(c) *Effectiveness***Figure 6.15: Result of Question 6-7 for Public**

Figure 6.15 above shows that 77.5% of the target users strongly agreed that they enjoy learning about fasting during Ramadan through web comic. While the other 17.5% of them agreed and the remaining 5% just moderately agreed. This shows that the majority of them enjoy learning about fasting during Ramadan through web comic.

Question 7 on Figure 6.15 above shows that 72.5% of the target users strongly agreed that they understand about fasting practice during Ramadan based on the web comic, the other 25% just agreed and the remaining 2.5% moderately agreed on that. This shows that the majority of the target users understand about fasting practice during Ramadan based on the web comic.

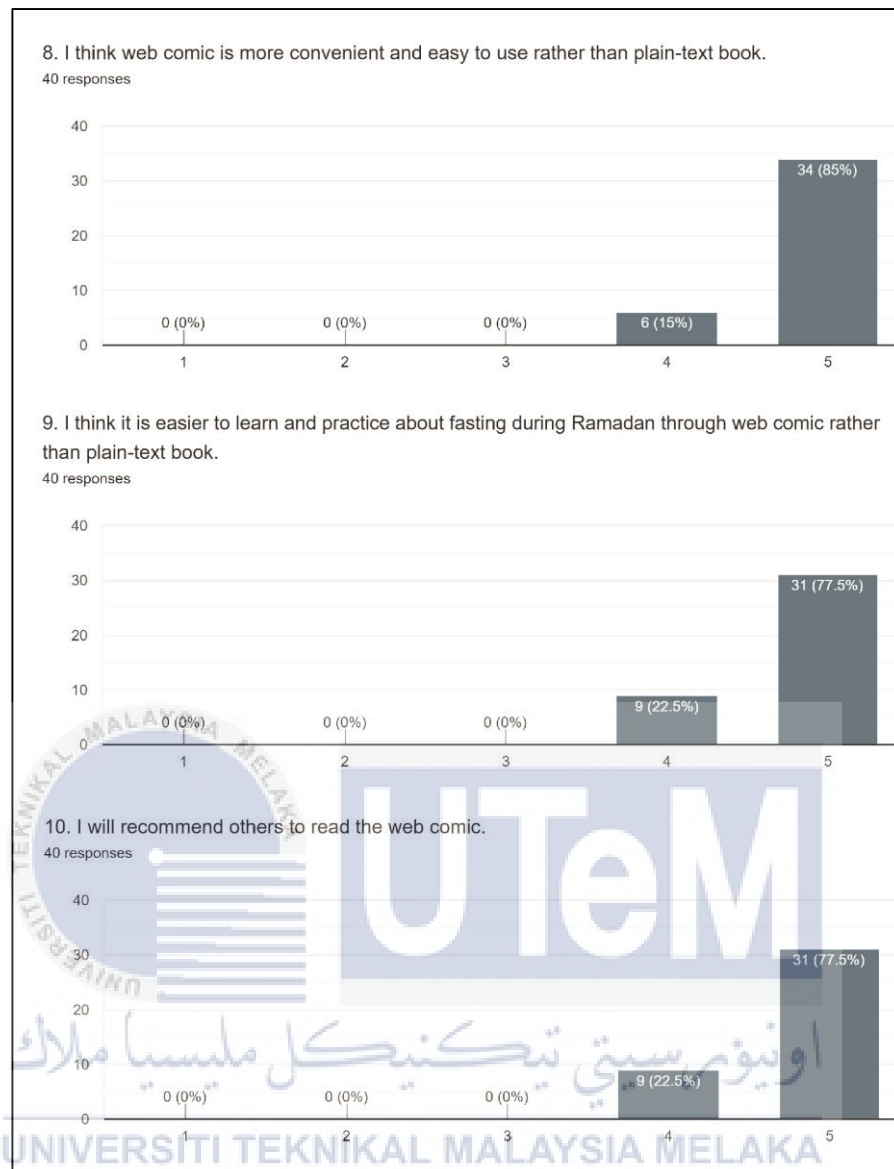


Figure 6.16: Result of Question 8-10 for Public

According to Figure 6.16 above, 85% of the target users strongly agreed that the web comic is more convenient and easy to use rather than plain-text book. The remaining 15% agreed on the statement. 77.5% of target users strongly agreed that it is easier to learn and practice about fasting during Ramadan through web comic rather than plain-text book and the remaining 22.5% agreed on that. This can be provided according to Figure 6.14 above. On question 10, it shows that 77.5% of the target users strongly agreed that they will recommend others to read the web comic and the other 22.5% agreed to do that. Thus, this shows that all target users will recommend others to read the web comic.

11. State any comment and suggestion for overall web comic.

23 responses

Could use some improvement on the infographic.

Mantul

This survey had introduce me to web comic. Haven't hear about it before. Thank you.

I really enjoy reading your story. All the best!

It's was interesting but I don't have webtoon account but don't worry I will sign up later. Keep up the good work and Good luck.

Nice work

Very useful

Creative. Keep it up ~

Ok

Don't have comment because the comic already awesome 🍌

make it more colorful.. Btw, overall the webtoon so interesting

It is so nice and fun to read. I am able to understand all the context on the web comic.

improve more on design and layout

Simple and easy to understand.

Very interesting to read and easily to understand

+ friendly illustration

+ ease to understand (straight forward)

+ colourful

+ divide by chapter (niat, perkara makruh, sunat, haram etc)

Its so nice and very effective to use it

It's clear and informative

Short story regarding the prophet

Best

Eggselen ! 🌟👍. Ana Muslim is shaking

Great job!

Dondee ilaa

Could use some improvement on the infographic.

Mantul

Figure 6.17: Result of Question 11 for Public

Figure 6.17 above shows the comments and suggestions from the public for the 'Ramadan Practice' web comic.

6.5.3.2 Webtoon User

This is based on the data such as comment, like, subscription and rate collected from the Web comic 'Ramadan Practice' on Webtoon.

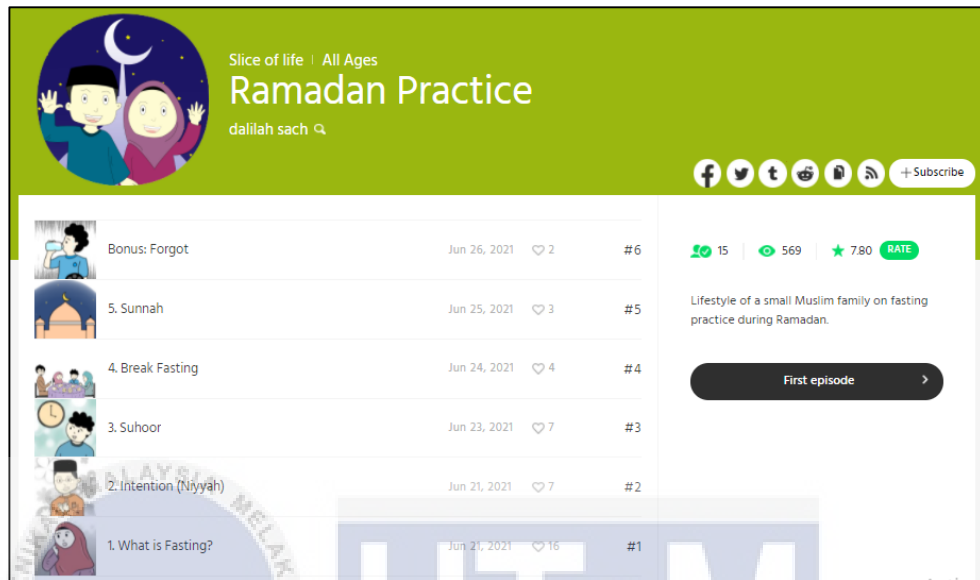


Figure 6.18: First Page of the Ramadan Practice Web Comic

Based on Figure 6.18 above, a few Webtoon users shows some interest in the web comic. As of 26 August 2021, there are total of 15 users subscribe to the web comic, and total of 569 people have saw and read the web comic. The web comic have been rated 7.8 stars so far. The number of like can be seen in each episode. The first episode got 16 likes, the second and third episode got 7 likes, the fourth episode got 4 likes, the fifth episode got 3 likes and the last episode got 2 likes only.

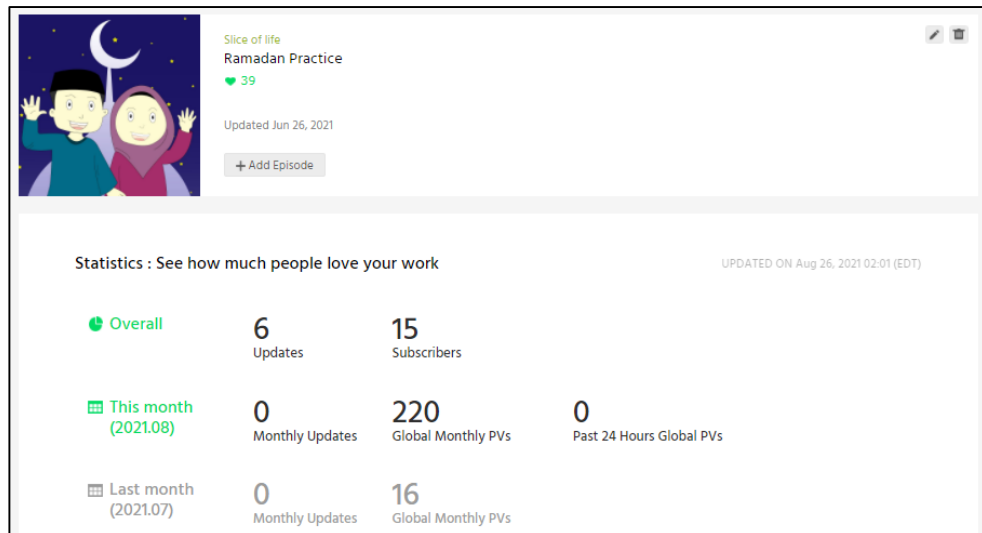


Figure 6.19: Ramadan Practice Web Comic Statistics

Figure 6.19 shows that there are total of 39 Webtoon users liked the web comic. As of 26 August 2021, the statistics shows that the global monthly page views for August 2021 is 220. While the global monthly page views for the previous month which is in July 2021 is only 16.

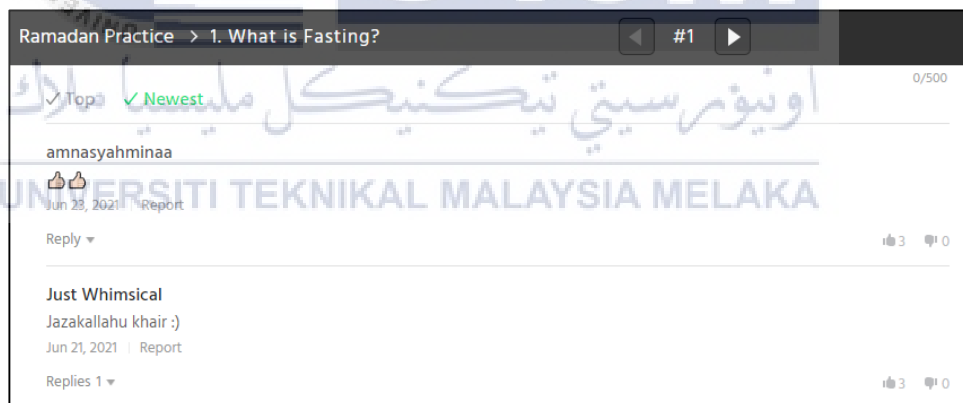


Figure 6.20: Comments on Episode 1

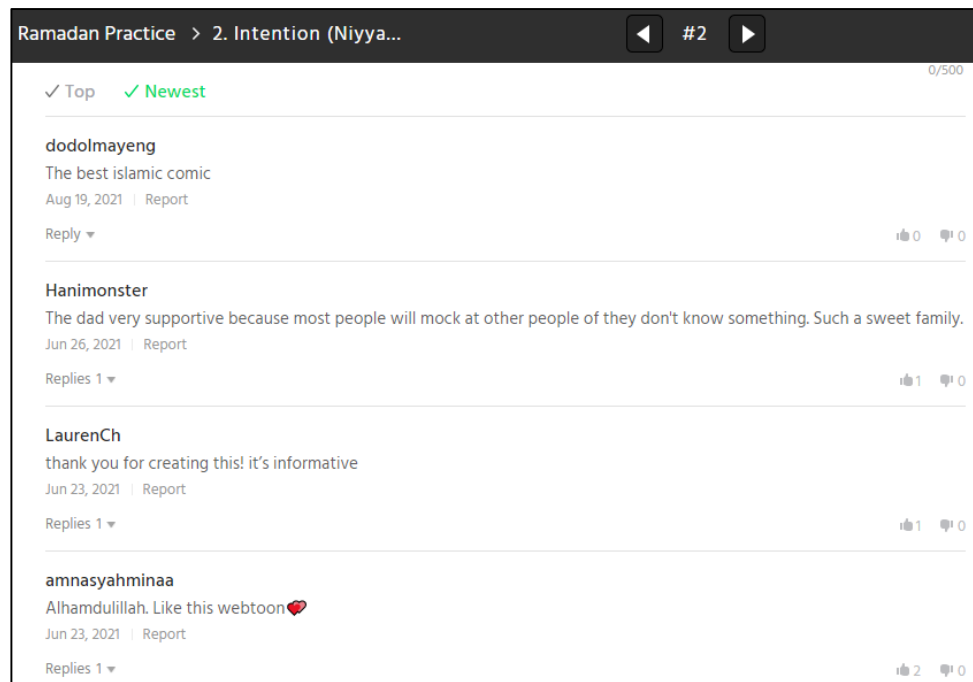


Figure 6.21: Comments on Episode 2

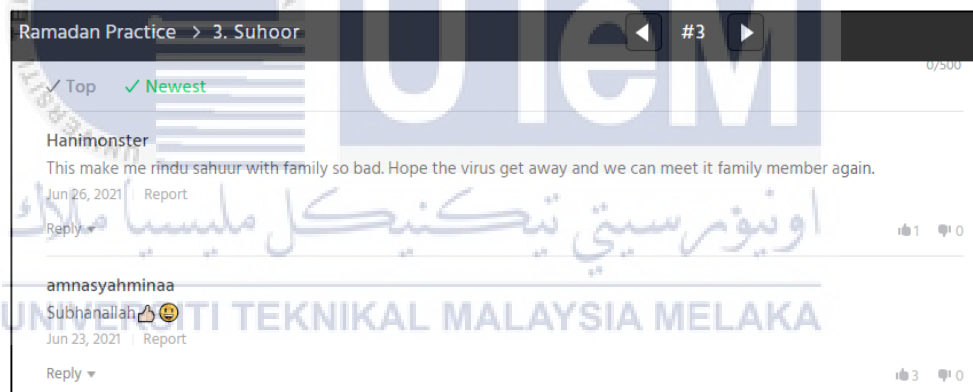


Figure 6.22: Comments on Episode 3

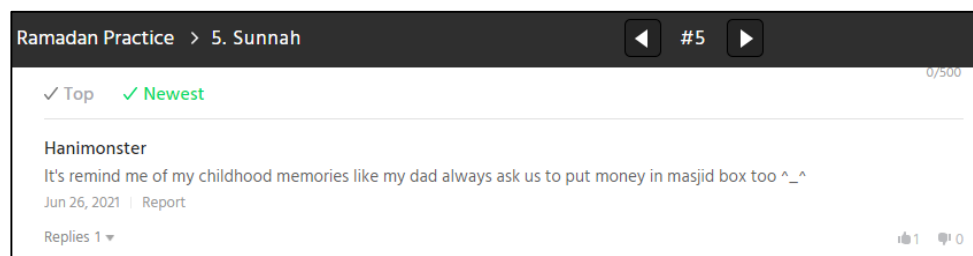


Figure 6.23: Comments on Episode 5

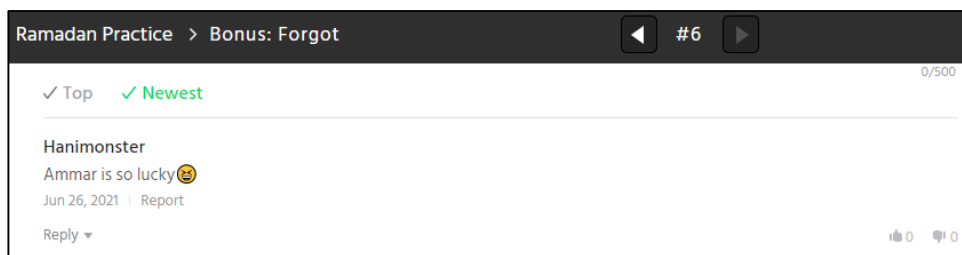


Figure 6.24: Comments on the Last Episode

Figure 6.20 until Figure 6.24 shows comments that have been made by the Webtoon users or the readers based on the episodes in the web comic Ramadan Practice.

6.6 Analysis Testing

All the data collected from the testing is then all be analyzed into graph and charts. This is summarize the result from the testing.

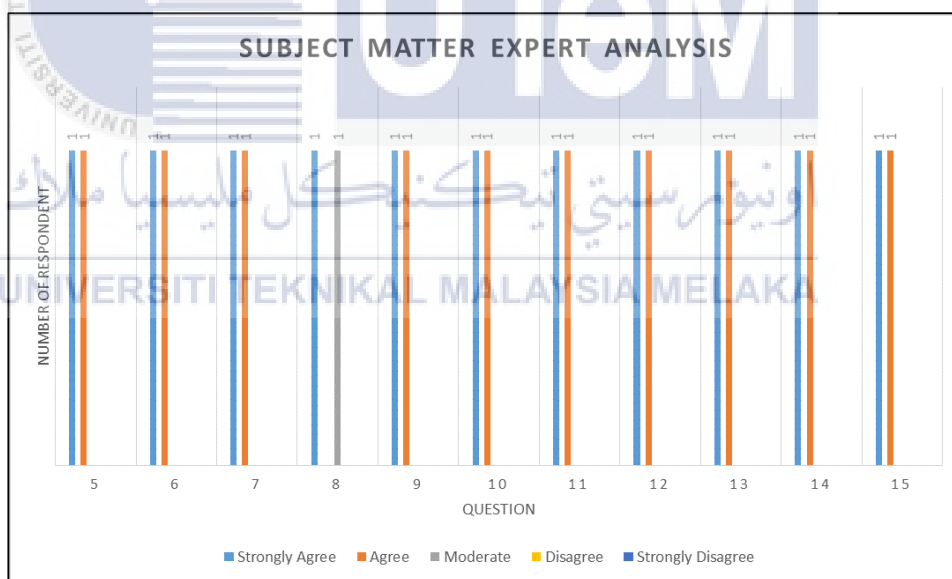


Figure 6.25: Subject Matter Expert Analysis

Based on Figure 6.25, with the total of 2 Subject Matter Expert, there is no one choosing to disagree on each of the questions. It can be summarized that the project shows a good result on the content and effective to use as the knowledge and guide to deliver the information on fasting practice during Ramadan.

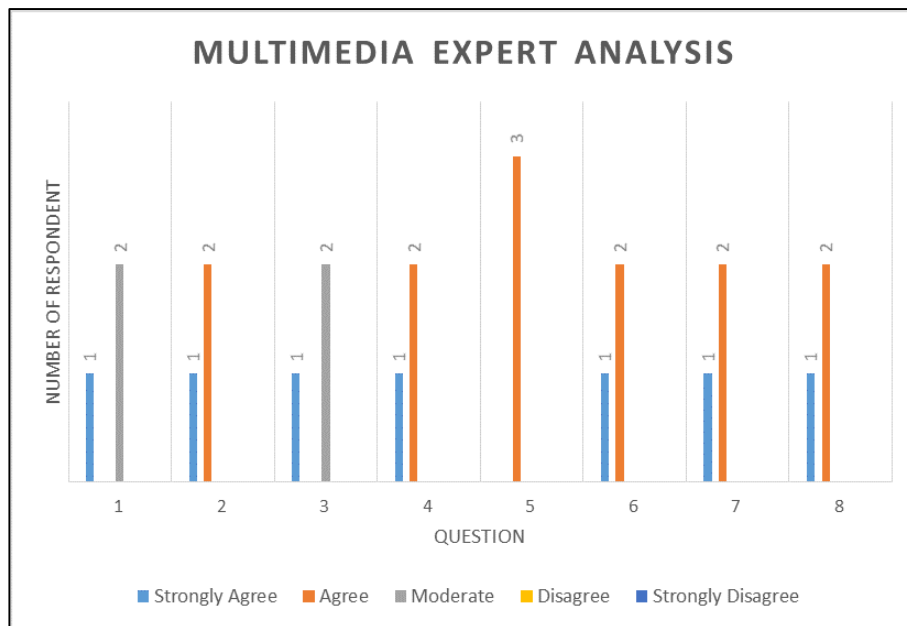


Figure 6.26: Multimedia Expert Analysis

Based on Figure 6.26, with the total of 3 Multimedia Expert, there is no one choosing to disagree on each of the questions. It can be summarized that the project shows a good result on the attractiveness and the ease of use of the project.

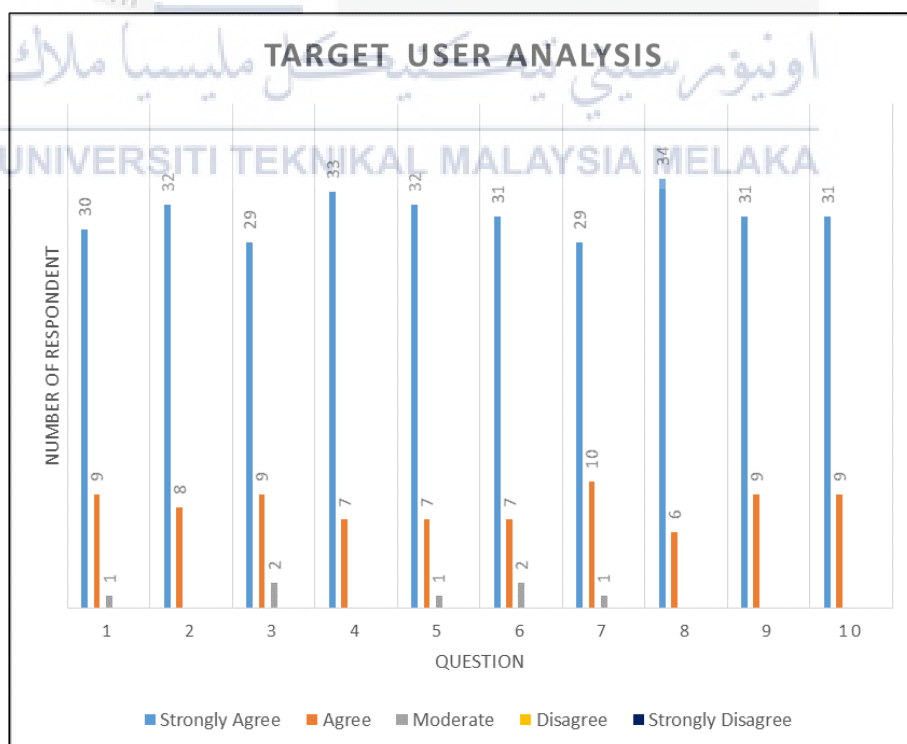


Figure 6.27: Target User Analysis

Based on Figure 6.27 above, with the total of 40 respondent, none of them choose to disagree on each of the question. Most of them strongly agree. This can be conclude that the testing shows a very good result for the usability and effectiveness. Thus, this shows a high satisfaction and acceptance on user.

6.7 Conclusion

As conclusion, the testing phase is needed in every project. All the result of data collected from the questionnaires is important as it helps in knowing the weaknesses of a project as well as being able to make improvements to the project or to the next project. As in for the next chapter, it will focused on the weakness, strengths, improvement, and the contribution of the project based on the testing result obtain before.



CHAPTER 7: PROJECT CONCLUSION

7.1 Introduction

This chapter is the final chapter. It explain on what can be concluded from what have been gathered and collected from the testing phase. It include the weakness and strengths of the project that is obtained from the testing phase. From the weakness found, the proposition on improvement will be stated. This chapter will also explain the contribution of the project.

7.2 Observation on Weakness and Strengths

Every project have their own weakness and strengths. As what have been gathered and collected from the testing, there are a few weakness and strengths can be stated.

7.2.1 Weakness

7.2.1.1 Language

One of the weakness is that the web comic is lack of language. What it means here is that the language use is only in English. This is because there is comment and suggestion from one of the Subject Matter Expert to make the web comic in Malay too. This can be a weakness for Malaysian readers. However, this can be strengths too as Webtoon readers are global and English is a language that is widely used all around the world.

7.2.1.2 Content

Based on the comment by one of the Multimedia Expert, some note at the last page of every episode in the web comic is too long. This might make reader lost interest in reading the web comic.

7.2.1.3 Graphic

The other weakness based on the testing is that the overall graphic is not enough attractive. This can be seen as there is a comment from public to make it more colorful. The analysis from the testing result of Multimedia Expert also shows that the score for the graphic and color is low.

7.2.2 Strengths

7.2.2.1 Content

The arrangement of content is by topic or episode. It ease the reader who want to read or recap certain topic without having to read the whole web comic over again. Based on the testing result, the content is clear and understandable. The content arrangement is not too complex to deliver information. Each episode comes with a concise story.

7.2.2.2 Language

Using English for the comic is a bonus as English is widely used around the world. The 'Ramadan Practice' web comic can be read not only by Malaysian but also by other people around the world too.

7.2.2.3 Device friendly

The web comic which use Webtoon as the platform is a device friendly web comic platform. The web comic can be read with or without having the Webtoon account. It can also be read by the application or by browser without downloading the application. Any device is compatible to read the web comic. Reader can use smartphone, laptop, and any other device too.

7.3 Proposition for Improvement

From the weakness identified and stated before, there are some other ways to improve the project.

7.3.1.1 Language

Since the topic fasting is global topic because Muslim is all around the world, using English is the best. However, the web comic can be improved by making another version with different languages. This is to attract other language user too. Since Webtoon have no restriction on the languages used, the web comic can be improved in the future work by publishing another languages such as Malay and Indonesia too.

7.3.1.2 Content

Adjust some note at the last page of every episode in the web comic since it is too long based on the Multimedia Expert comment. The content can also be extended by adding more episode or topic and arrange them by increasing the level of difficulties since fasting during Ramadan can discover many more topic.

7.3.1.3 Graphic

Adding more details on the graphic such as the use of color.

7.3.1.4 Publish Platform

This web comic project can also be improved by publishing on different platform other than Webtoon. This is because different platform have different users. This can help not only in spreading the knowledge about the fasting topic but also to promote the web comic more widely without focusing on one platform only.

7.4 Project Contribution

This project contribution is to public understanding regarding the topic fasting especially fasting during the holy month of Ramadan. Though the topic is related to Muslim, it can also be applied to other religion too as a knowledge to them. This web

comic project also contribute to spread the knowledge about Islam all around the world not only focusing on the fasting topic.

7.5 Conclusion

In conclusion, this last chapter summarize the outcome of the project. The project have been successfully developed and evaluated through all the process from chapter 1 until the last chapter. However, this project can still be improved in the future. Despite having the weakness, the project was successfully evaluated and showed a satisfying result through the testing phase.



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APPENDICES

Appendix A: Questionnaire form for Subject Matter Expert



Section 1 of 3

SME Validation - The Effect of Web-based Comic on Fasting Practice during Ramadan

Assalamualaikum and hi.
My name is Nur Dalilah. I am a 3rd year student of Bachelor in Information Technology (Interactive Media) at Universiti Teknikal Malaysia Melaka (UTeM). Currently, I am conducting a survey for my Final Year Project.

This project is entitled 'The Effect of Web-based Comic on Fasting Practice during Ramadan'. The objective of this survey is to validate and evaluate the content for my Final Year Project.

The web comic must be read before answering the survey. If you have the Webtoon application in your phone, you can just search for "Ramadan Practice" or "dalilah sach".

If you do not have the Webtoon application, you can click to this link:
https://www.webtoons.com/en/challenge/ramadan-practice/list?title_no=646799

Thank you so much for your contribution :) اونیورسیتی تیکنیکل مالایسیا ملاک

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Please read the 'Ramadan Practice' web comic by dalilah sach before answering.

Link: https://www.webtoons.com/en/challenge/ramadan-practice/list?title_no=646799

Name *

Full name

Short answer text

Position *

Position and company. E.g: Teacher at Sekolah Rendah Agama Taman Ehsan

Short answer text

Email *

Short answer text

Section 2 of 3

Section A: Content

Description (optional)

1. The terms used is suitable and correct. *

☐ Yes

☐ No

2. All the contents are correct and relevant. *

☐ Yes

☐ No

3. The contents are clear, easy to understand, and easy to learn. *

☐ Yes

☐ No

4. Based on question 1-3, is there any corrections for the wrong terms and contents? If yes, comment the right terms and contents. If no, comment "No". *

Long answer text

Image t...

1	2	3	4	5
Strongly Disagree	Disagree	Moderate	Agree	Strongly Agree

5. The web comic gives information about fasting during Ramadan. *

Strongly Disagree ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 Strongly Agree

6. The graphic used is suitable for the web comic. *

Strongly Disagree ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 Strongly Agree

7. The text and fonts used is easy to read. *

Strongly Disagree ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 Strongly Agree

[illegible]

12. The web comic can be used as a guide to practice fasting during Ramadan. *

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

13. The content arrangement is effective to deliver the information. *

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

14. Using web comic as a platform to learn about fasting is more effective compared to plain-text book. *

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree




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Appendix B: Questionnaire form for Multimedia Expert



Section 1 of 3

Multimedia Expert Evaluation - The Effect of Web-based Comic on Fasting Practice during Ramadan

Assalamualaikum and hi.
My name is Nur Dalilah. I am a 3rd year student of Bachelor in Information Technology (Interactive Media) at Universiti Teknikal Malaysia Melaka (UTeM). Currently, I am conducting a survey for my Final Year Project.

The objective of this survey is to evaluate the effectiveness of my Final Year Project. This project is entitled 'The Effect of Web-based Comic on Fasting Practice during Ramadan'.

The web comic must be read before answering the survey. If you have the Webtoon application in your phone, you can just search for "Ramadan Practice" or "dalilah sach".

If you do not have the Webtoon application, you can click to this link:
https://www.webtoons.com/en/challenge/ramadan-practice/list?title_no=646799

Every response is completely confidential and used for analysis. Thank you so much for your contribution :)

Please read the 'Ramadan Practice' web comic by dalilah sach before answering.

Link: https://www.webtoons.com/en/challenge/ramadan-practice/list?title_no=646799

Name *
Full name
Short answer text

Position *
Example: Graphic Designer at ABC Sdn Bhd
Short answer text

Section 2 of 3

Section A: Attractiveness



Description (optional)

Image t...

1	2	3	4	5
Strongly Disagree	Disagree	Moderate	Agree	Strongly Agree

1. The thumbnail for the web comic is suitable and attractive. *

Strongly Disagree 1 2 3 4 5 Strongly Agree

☐ ☐ ☐ ☐ ☐

2. The thumbnail for each episode of the web comic is suitable with the title. *

Strongly Disagree 1 2 3 4 5 Strongly Agree

☐ ☐ ☐ ☐ ☐

3. The overall multimedia elements used such as color and graphic is suitable for the web comic. *

Strongly Disagree 1 2 3 4 5 Strongly Agree

☐ ☐ ☐ ☐ ☐

4. The use of comic elements such as variety of balloon speech helps reader to understand the content more easily. *

Strongly Disagree 1 2 3 4 5 Strongly Agree

☐ ☐ ☐ ☐ ☐

Section 3 of 3

Section B: Ease of Use

Description (optional)

Image t...

1	2	3	4	5
Strongly Disagree	Disagree	Moderate	Agree	Strongly Agree

5. The text and fonts used is suitable and easy to read. *

Strongly Disagree

1

2

3

4

5

Strongly Agree

6. The web comic is easy to find and use. *

Strongly Disagree

1

2

3

4

5

Strongly Agree

7. The content arrangement is not too complex to deliver the information. *

Strongly Disagree

1

2

3

4

5

Strongly Agree

8. The web comic can be read and learn anywhere at anytime. *

Strongly Disagree

1

2

3

4


5

Strongly Agree

9. State any comment or suggestion.

Long answer text

Appendix C: Questionnaire form for Target User (Public)



Section 1 of 3

User Evaluation - The Effect of Web-based Comic on Fasting Practice during Ramadan

Assalamualaikum and hi.
My name is Nur Dalilah. I am a 3rd year student of Bachelor in Information Technology (Interactive Media) at Universiti Teknikal Malaysia Melaka (UTeM). Currently, I am conducting a survey for my Final Year Project.

The objective of this survey is to evaluate the effectiveness of my Final Year Project. This project is entitled 'The Effect of Web-based Comic on Fasting Practice during Ramadan'.

The web comic must be read before answering the survey. If you have the Webtoon application in your phone, you can just search for "Ramadan Practice" or "dalilah sach".

If you do not have the Webtoon application, you can click to this link:
https://www.webtoons.com/en/challenge/ramadan-practice/list?title_no=646799

Every response is completely confidential and used for analysis. Thank you so much for your contribution :)

Please read the 'Ramadan Practice' web comic by dalilah sach before answering.

Link: https://www.webtoons.com/en/challenge/ramadan-practice/list?title_no=646799

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Age *

☐ 17 or younger

☐ 18-20

☐ 21-29

☐ 30-39

☐ 40 or older

Gender *

☐ Male

☐ Female

Religion *

- ☐ Islam
- ☐ Christianity
- ☐ Buddhism
- ☐ Hinduism
- ☐ Other

Section 2 of 3

Section A: Usability

Description (optional)

Image t...

1	2	3	4	5
Strongly Disagree	Disagree	Moderate	Agree	Strongly Agree

1. The web comic can be used as a guide to learn and practice fasting during Ramadan. *

1 2 3 4 5

Strongly Disagree ☐ ☐ ☐ ☐ ☐ Strongly Agree

2. The image and graphic used is suitable for the web comic. *

1 2 3 4 5

Strongly Disagree ☐ ☐ ☐ ☐ ☐ Strongly Agree

3. The text and fonts used is easy to read. *

1 2 3 4 5

Strongly Disagree ☐ ☐ ☐ ☐ ☐ Strongly Agree

4. The contents are clear, easy to understand, easy to learn, and easy to practice. *

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

5. Learning about fasting is more convenient using web comic as it can be read and learn anywhere at anytime.

1 2 3 4 5

Strongly Disagree Strongly Agree

Section 3 of 3

Section B: Effectiveness

Description (optional)

Image t...

1	2	3	4	5
Strongly Disagree	Disagree	Moderate	Agree	Strongly Agree

6. I enjoy learning about fasting during Ramadan through the web comic.

1 2 3 4 5

Strongly Disagree Strongly Agree

7. I understanding about the fasting practice during Ramadan based on the web comic. *

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

8. I think web comic is more convenient and easy to use rather than plain-text book. *

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

9. I think it is easier to learn and practice about fasting during Ramadan through web comic rather than plain-text book. *

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

10. I will recommend others to read the web comic. *

	1	2	3	4	5	
Strongly Disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly Agree

11. State any comment and suggestion for overall web comic.

Long answer text

.....