

CHILD WELFARE AND FOSTER CARE SYSTEM



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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This report is submitted in partial fulfilment of the requirements for the Bachelor of [Computer Science (Software Development)] with Honours.



FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY UNIVERSITI
TEKNIKAL MALAYSIA MELAKA

2021

DECLARATION


I hereby declare that this project report entitled

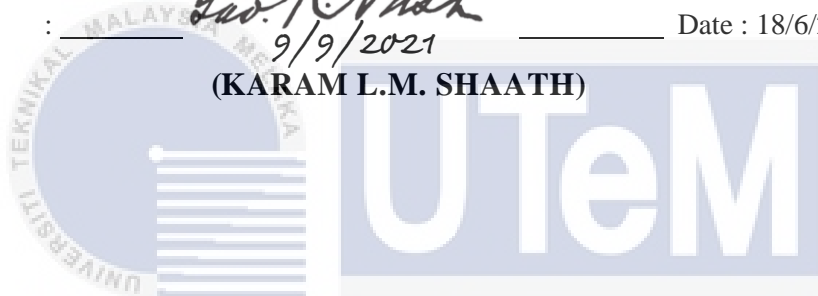
CHILD WELFARE AND FOSTER CARE SYSTEM

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I want to dedicate this project to my beloved family, friend, and all the work the worker who is having hard time in managing their workload.

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First and foremost, I would like to express my gratitude to the Lord Almighty, who without His guidance, for keeping me in the path of righteousness I would not have been able to be as I am today. I would also like to thank my beloved parents for their love and support throughout my life. Thank you for giving me the strength to reach for the stars and chase my dreams. Next, I would like to thank my Dr Abdul Karim bin Mohammad for giving me assistant to complete this project successfully and my fellow

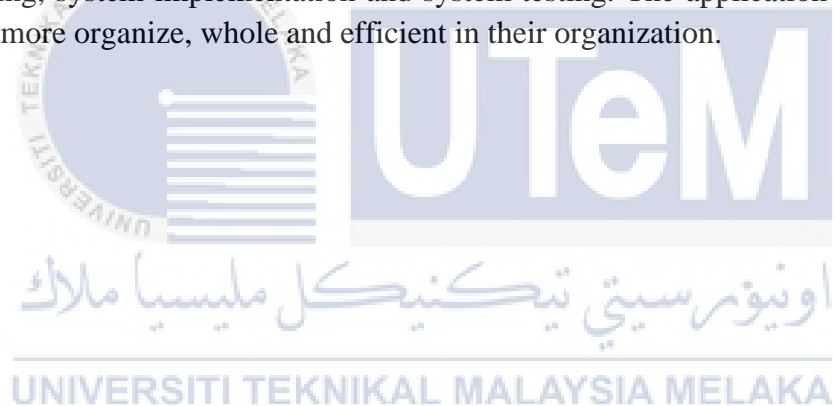


ABSTRACT:

CHILD WELFARE AND FOSTER CARE SYSTEM (CWFCs) educates families about foster care and adoption and gives child welfare professionals information and support to help them improve their services and the adoption process for the adopters around the world , our mission is to raise public awareness about the need for foster and adoptive families for children in the public child welfare system

Adopting from foster care is like other types of adoption in that after all the decision making, paperwork, and preparation are completed, a dream of family is fulfilled.

This project report will explain the development process and related information such as introducing the proposed system, methodology to develop the system, system analysis, system designing, system implementation and system testing. The application will assist the business to be more organize, whole and efficient in their organization.



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List of Abbreviations

FYP	-	Final Year Project
CWFCS	-	CHILD WELFARE AND FOSTER CARE SYSTEM
SDLC	-	System development life cycle
Y	-	Yes
N	-	No
MVC	-	Model view controller
HTML	-	Hypertext markup language
CSS	-	Cascading style sheet
PHP	-	Personal Home Page
SQL	-	Structured Query Language

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CHAPTER 1 INTRODUCTION

1.1 INTRODUCTION

Adoption is a highly specialized field that focuses on placing children with families and providing services to ensure that these placements are permanent. In recent decades, the emphasis of adoption practice has shifted from helping families find children to finding safe and permanent families for children. Adoption workers are now expected to have extensive knowledge and understanding of the recruitment and assessment of adoptive families, the placement of children with a variety of strengths and needs, and supportive postadoption services to promote attachment and permanency for children. Child Welfare and Foster Care System is a system can serve the demand of the poor children by developing a good system can help them in many ways by knowing each adopter details and personal information and review the adopter information by the community of the website, after we accept his request for adopting the child the adopter will add his signature on few documentation that will guaranty the child rights and roles that the adopter can't break, in our government system we are more careful about both the adopter and the child to keep each one his rights, we develop this system based on some criteria that's fitted with the policy of the adoption roles, a system contain all the needs for the user to adopt a child a system made with five language JAVA SCRIPT, CSS,HTML,PHP,SQL.

1.2 PROBLEM STATEMENT

Children are the best human resources that can be to any country around the world, many countries have added the advantage of having a big number of homeless people and orphan kids, so what if this human resource we build and handle it more carefully and use it, the country will contribute to the economy and overall development of the society and the country. promoting adoption provides a home and family to the adopted child and keep him away from the street and the dangerous things, for that we need to create a website to use this resource carefully about our countries and my website will provide all the requirement about this issue to avoid any of the fake organizations that will use this issue by a wrong way against the rights of the children and the governments.

Child Welfare and Foster Care System is a system that manages the adoption process for the people who want to adopt children in a specific country and the system will allow the adopters to choose the child based on critical personal information such as (full name, personal information, income, job, language, marital status, the reason of adopting).

1.3. OBJECTIVE

Nowadays the world facing a lot of problems such as poverty and jobless and many more problems that may affect the orphan children's , this system have many objectives but I will be focus in these objective first we want to help the orphan children from abuse from many ways and from many dangerous things , second Choosing safe and friendly management options to protect the people from dangers when they want to adopt a child, third to avoid a huge number of homeless people in the streets and around the world , fourth to reduce the cost of organizations that use people who want to adopt around the world , fifth to help the country from a global crisis like poverty , crime and homeless issue , sixth to help the infertile couple for adopting children , seventh to create a good and useful generation of young people and use

this resource very well , eighth to help people to do an act of charity and spend money in good things

1.4. PROJECT SCOPE

The project scope will define the boundaries of CWFCS which include the system functionality modules and users: -

1. Modules to be developed

- i. Admin.
Admin will login in the system by authorised email and password
- ii. Adopter.
Adopter is the customer that he will adopt or donate for the child
- iii. List of children.
List of children is a list in the system for the adopter provide the children information and picture
- iv. Sign in.
- v. Sign up.
- vi. Search child.
Search a child is like checking a list of children and choose one of them to adopt
- vii. Manage users.
Manage users are related to department of worker
- viii. Manage adoptions.
Manage adoptions related to the department of worker because they manage the adoptions processes
- ix. Manage donate.
Managing the donation related to the department team and financial
- x. Manage request.
Manage request while the adopter want to adopt a child, he must send report and fill it up then the department accept the proposal
- xi. Log out.

There are three types of USERS:-

- Admin
- Adopter

➤ **Department of worker**

1.5 PROJECT SIGNIFICANCE

The findings of this study will redound to the benefit of society considering that the Child Welfare and Foster Care System has its own significance for adoption processes using this system helping to monitor all the adopting process on a regular basis and helps to remember all adopters , children's , donations tracker , tec. It controls all operation around the website that improve efficiency and optimize the adoption status.

1.6 EXPECTED OUTPUT

- Children avoided and become a big issue for the country.
- Many people complain from the wrong way of adoptions.
- keep the adopted kids safe and under listed and trusted parents.
- avoid the misuse of adoption.
- Many people around the global want to adopt child and they cannot.
- Unavailability of honest organizations that can handle the adoption matter.

1.7 CONCLUSION

Adoption and donation make a big different for those children who lost their parents or the were appended by their families and each movement we made for them is a big chance to make a good life for them, our organization is non-profit organization it is an easy way to help those children and provide a good chance for a good life.

CHAPTER II LITERATURE REVIEW AND PROJECT METHODOLOGY

2.1 INTRODUCTION

The literature review included finding, gathering, evaluating, and drawing conclusions from all topic issues presented by the related body of literature. Whereas the project process includes the strategy and methods used to execute the project.

This chapter is a paper describing the results, procedures, and strategies that can be used in the implementation of the Child Welfare and Foster Care System the evidence and results are evaluated by describing the goals the present situation and tools available. Child Welfare and Foster Care System is a child foster centre inventory system that consist of data entry , retrieval and monitoring children who are available to be adopted . String searching technique also applied in this system. This technique is referring by child name and id child name or id and the information that contain about him.

2.2 Facts and Findings

most of the adopters they usually adopt childes in the traditional way like from a family or from the street, but this was before nowadays in my system the adoption will be easier , also one of the facts that the children will know the parents that he will spend his life with theme, and they are able gable to raise him based on our system requirement

2.2.1 Domain Web base

2.2.2 Existing system

The current system

2.2.3 Technique

Through intuition, a specific action can entail the execution of a specific task and process, which can lead to time consuming process. The new Child Welfare and Foster Care System website enables all the users around the world a smooth operation of the Child Welfare and Foster Care System, which may improve the satisfaction rate of target groups.

2.3 Project Methodology

This section presents the research methodology used in the study, the research design, and the data collection process.



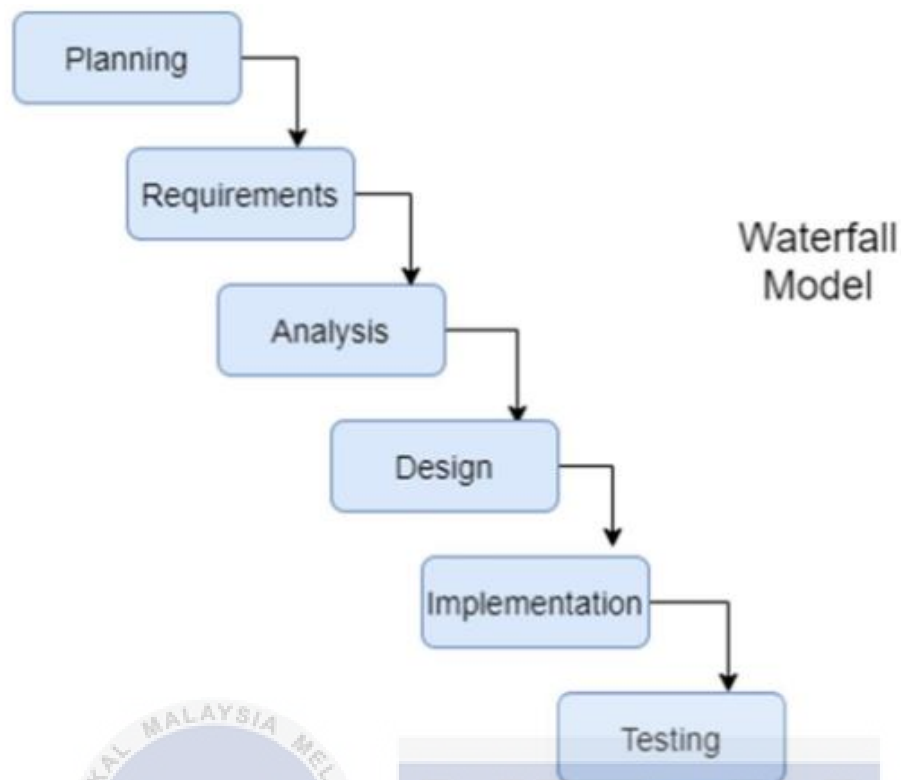


Figure 1 Project Methodology

Figure 2.1 Above illustrates the approach chosen for the execution of this initiative. This methodological approach is also useful for software development, using limited preparation in lieu of fast prototypes. The practical module is designed in parallel as a concept in the Life Cycle Production Software (SDLC) approach and is implemented to create a full system for quicker product delivery.

2.3.1 Activities in the software development life cycle

Both operations during the construction of this project in-phase or process shall be described on a rapid model basis. To make further progress on this method, I have identified an appropriate strategy to be practiced in the system of the Child Welfare and Foster Care System. The Waterfall Life Cycle Model will be presented in detail in this chapter.

2.3.1.1 Planning

Now, the organization of the venture begins. In any event, the information is collected from the site sources and the end-client assessments on the existing system are collected. In the

present framework, the problem must be explored and attempted to fix the problem before the structure is changed. In the meantime, it is important to know the part in the database.

2.3.1.2 Requirement

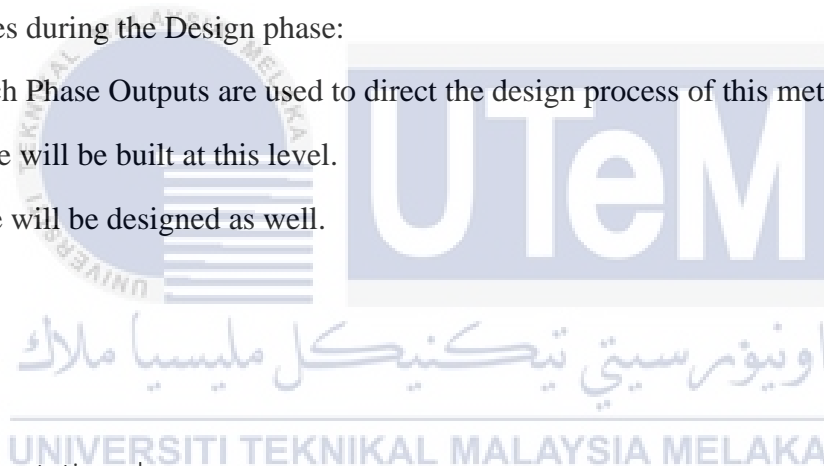
Summary of tasks during the preparation process of the requirements:

- i. Identify and list the challenges posed by the new or emerging framework Requirements for this.
- ii. Analyse the requirements and definitions obtained in the main modules.
- iii. Create a diagram and a specification manual for specifications.

2.3.1.3 Design phase

List of activities during the Design phase:

- i. The Research Phase Outputs are used to direct the design process of this method.
- ii. The database will be built at this level.
- ii. An interface will be designed as well.



2.3.1.4 Implementation phase

Built with Xampp program and brackets. From the design stage, the architecture of the database and its interface can be improved.

The phase of writing code is finished at this point. At this stage, the task of writing code stops. Writing computer programs in this system is split into programming language PHP, HTML, and database PhpMyAdmin. Using Bootstrap 4, JavaScript and Jason will boost device architecture.

2.3.1.5 Testing phase

List of activities during the testing phase:

- i. Collect bugs, debug, and document the corrective actions.

- ii. If an error occurs, a solution will be found to overcome the problem.
- iii. Run integration testing and document the result.
- iv. When an issue is detected, the code will be changed at the beginning of the development process.

2.4 Project Requirements

2.4.1 Software Requirement

The system services and goals are established by consultation with system user. They are then defined in detail and serve as a system specification. System requirement are those on which the system runs.

2.4.2 Hardware Requirement

Some software requirements have been identified to develop this system. Below are the software requirements used.



Development Tools:

- I. Microsoft Office Visio Adobe
- II. Photoshop and Adobe Flash.
- III. Visual studio code
- IV. xampp

Operating System:

- I. Microsoft Office
- II. Php my admin database
- III. Microsoft office
- IV. Windows 10

2.4.3 Other Requirement

Other requirements depict user support for the needs of software, hardware, and network that will develop this program.



4.5 Milestone and Schedule

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Table 1: Milestones and schedule

Activity /Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Meeting with the supervisor and discuss the topic															
Analysis and Research															
Design of the system															
Developing the system															
Testing															
System Maintenance															
project Documentation															

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2.6 Conclusion

The sum-up of this section is that it is essential to create a system for the project methodology and milestone. This is because the scheme is well planned and organized according to the moment provided. If everything is followed, it will certainly operate effectively and smoothly. The methodology chosen to create this scheme is the Waterfall Model and the milestone of the project was created. The next section will address this system's Analysis.

CHAPTER III ANALYSIS

3.1 INTRODUCTION

3.1 Introduction:

The main purpose of preparing this document is to give a general insight into the analysis and requirements of the existing system or situation and for determining the operating characteristics of the system.

Scope:

This Document plays a vital role in the development life cycle (SDLC) and it describes the complete requirement of the system. It is meant for use by the developers and will be the basic during the testing phase. Any changes made to the requirements in the future will have to go through a formal change approval process.

3.2 Problem Analysis

Problem Method can be considered as the problem being analysed and monitored to capture how the issue came up and what will we do to resolve it. To explain the requirements for Child Welfare and Foster Care System, a review of the study was performed to determine the information gathered from the current scheme. Briefly, the program fixes the problem to examine.

3.2.1 Sequence Diagram

Sequence diagrams describe interactions, which are used to capture Child Welfare and Foster Care System scenarios as a set of specified occurrences across several parts of the system, represented by Lifelines

Admin Sequence Diagram

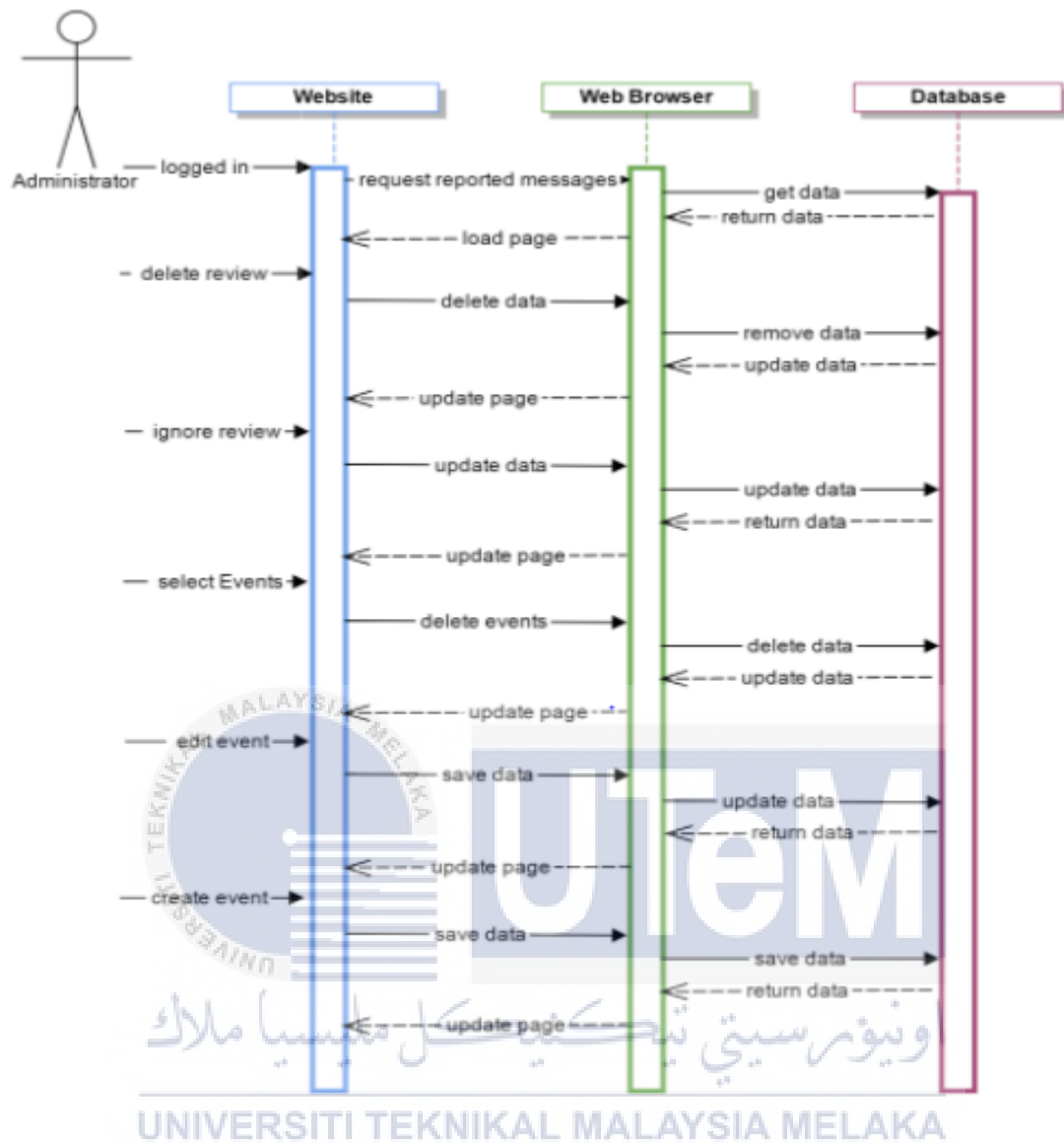


Figure 2: Admin sequence diagram

Department Worker Sequence Diagram

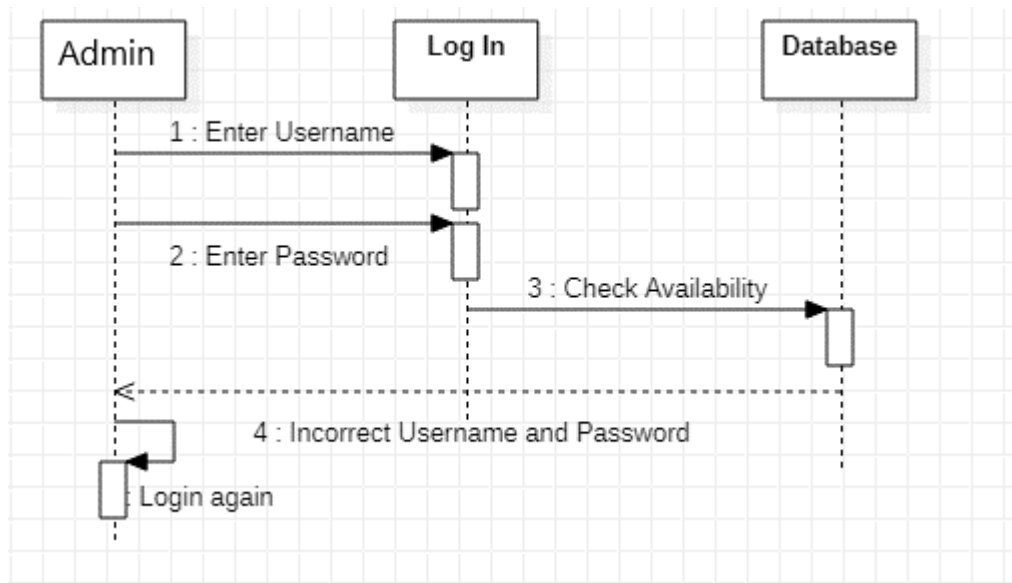
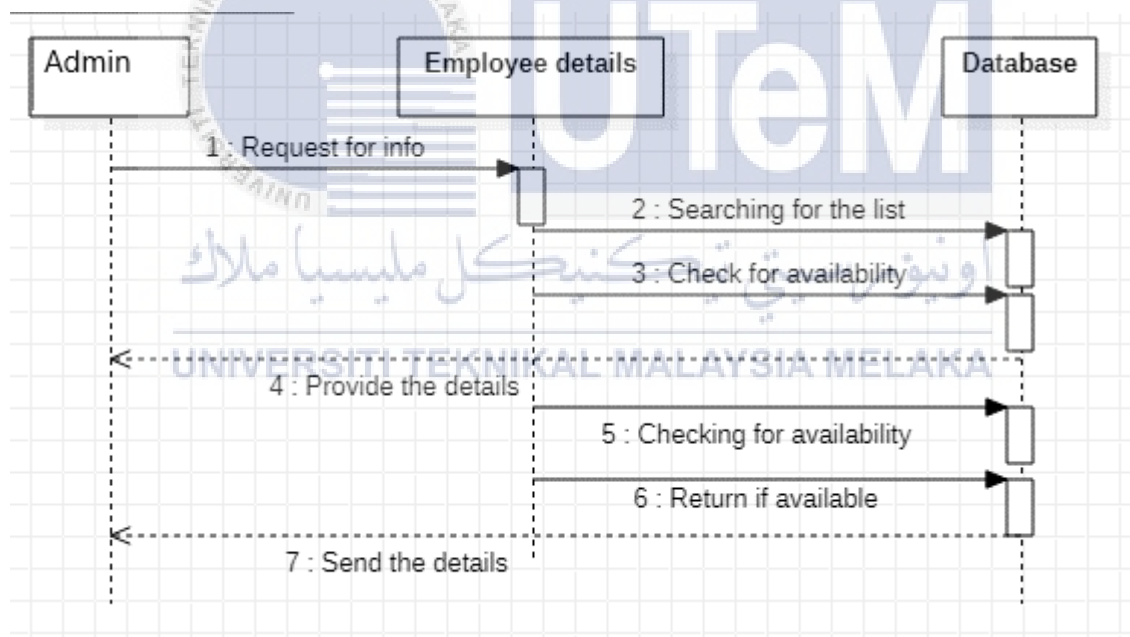


Figure 3 : department work sequence diagram



Customer Sequence Diagram

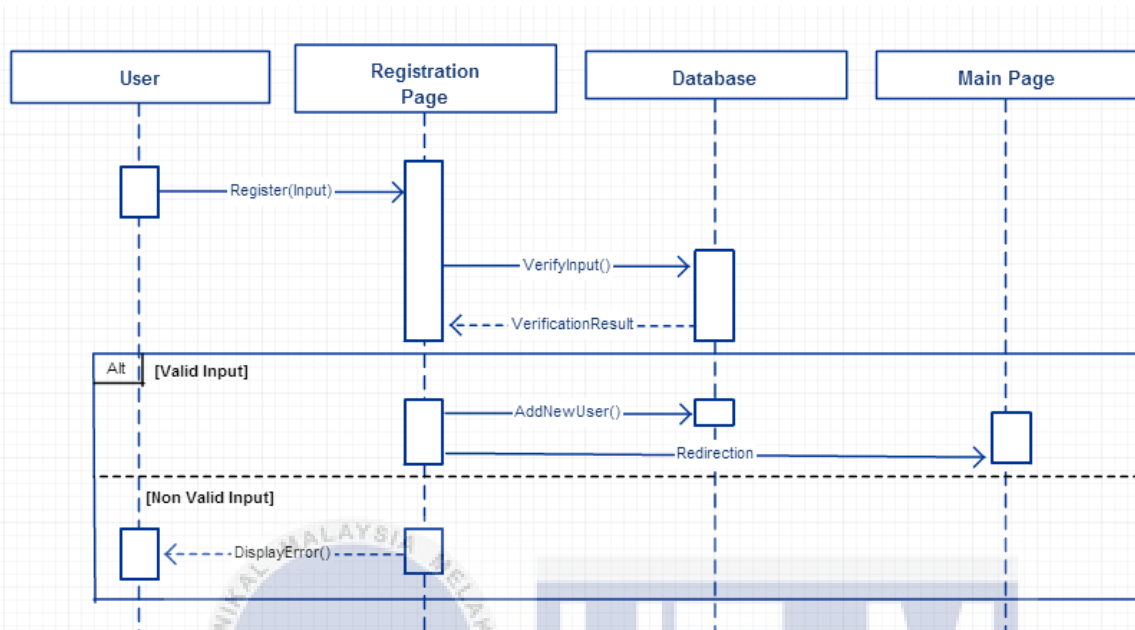


Figure 4: Customer sequence diagram

Adapter Sequence Diagram

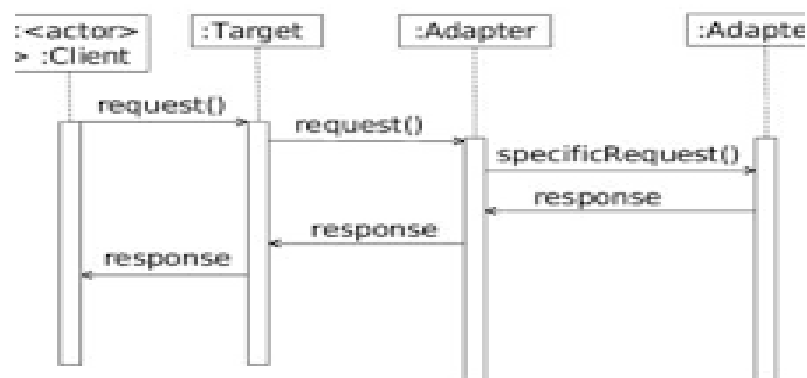


Figure 5: Adapter Sequence diagram

3.3 Requirement Analysis

Requirement analysis is the process of defining the expectations of the users for the system that is to be built or modified. It involves all the tasks that are conducted to identify the needs of different stakeholders. Analysis of the requirement is critical to developing the project requirement. The Child Welfare and Foster Care System meets all the needs of the users.

3.3.1 Data Requirement

The main aim of the information is to identify and record all the entities inside the project scope. Countless problems are considered while identifying the information such as description of entities, their characteristics, mostly their relation among different entities, recognition of the size and quantity for every entity and the data security.

3.3.1.1 Adopter information

Adopter information is must, and we need to put it in the database that in case if there is something wrong or wrong identity then we could easily find the way for it. It includes name, telephone, and residence. Email id, nationality, gender, image etc.

Table 2: Adopter

Table: adopter	
Columns:	
id	int AI PK
first_name	varchar(50)
middle_name	varchar(50)
last_name	varchar(50)
telephone	varchar(20)
residence	text
email_address	varchar(50)
nationality	varchar(50)
gender	tinyint
user_image	text
username	varchar(50)
password	text

3.3.1.2 Adoption information

Adoption info is also important so that in case any query wen extract information from the database. It includes adopter id, child id, remarks, dept. worker id, marital status, income, reason, and language.

Table 3: Adoption

Table: adoption**Columns:**

id	int AI PK
adopter_id	int
child_id	int
remarks	text
department_worker_id	int
status	tinyint
marital	text
profession	text
income	int
reason	text
language	varchar(100)

3.3.1.3 Child information

Child information is must it includes name, about, date of birth, and all other information that needs to be added.

Table 4: Child Table

Table: child	
Columns:	
id	int AI PK
first_name	varchar(50)
last_name	varchar(50)
user_image	text
sex	tinyint
date_of_birth	date
about	text
middle_name	varchar(50)
date_added	date
adopted	tinyint

3.3.1.4 Department worker information

Department worker information is important so from that we will reconfigure, and it includes name, username, gender, telephone, image and password and other important information.

Table 5: Department worker

Table: department_worker**Columns:**

id	int AI PK
name	varchar(100)
username	varchar(50)
gender	tinyint
telephone	varchar(20)
email_address	varchar(50)
image	text
password	varchar(100)

3.3.1.5 System Admin Information

In system admin table we will include username, password, email etc. So it can easily accessible.

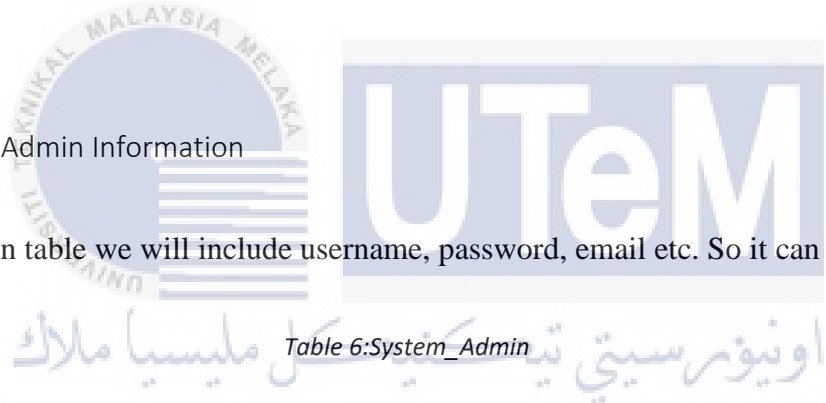


Table 6: System_Admin

Table: system_admin**Columns:**

id	int AI PK
username	varchar(50)
password	varchar(100)
full_names	varchar(100)
email	varchar(50)

3.3.2 Functional Requirement

Functional requirements of CWAFCs

Table 7 Functional Requirement

FR No.	Requirement	Description
CWAFCS 1_1	Register Account	The system will allow the user to make new account to be able to use the system functionalities
CWAFCS 1_2	Login and Logout	The system will allow user to login and logout from the system
CWAFCS 1_3	Manage adoption	The system will allow admin to manage the adoption
CWAFCS 1_4	View Adoption	System will allow admin to view the data
CWAFCS 1_5	Dashboard	System will allow admin to see all the details
CWAFCS 2_1	Search	System will allow admin to search about any details while the security guard search about the visitor detail
CWAFCS 2_2	Manage Adopter	System will allow admin to manage the adopter
CWAFCS 2_3	View Adopter	System will allow admin to manage and view the adopter profile
CWAFCS 2_4	Mange department worker	System will allow database to check the department worker
CWAFCS 2_5	Manage System Admin	System will allow database to view every information regarding the system admin
CWAFCS 2_6	Manage child information	System will allow admin to check the details of the child

3.3.2.1 Usecase View

This global Usecase has four actors i-e adopter, community welfare commissioner, welfare officer, court office. There are 6 modules which are login modules, admin module, foster care module, customer, etc. it is given below

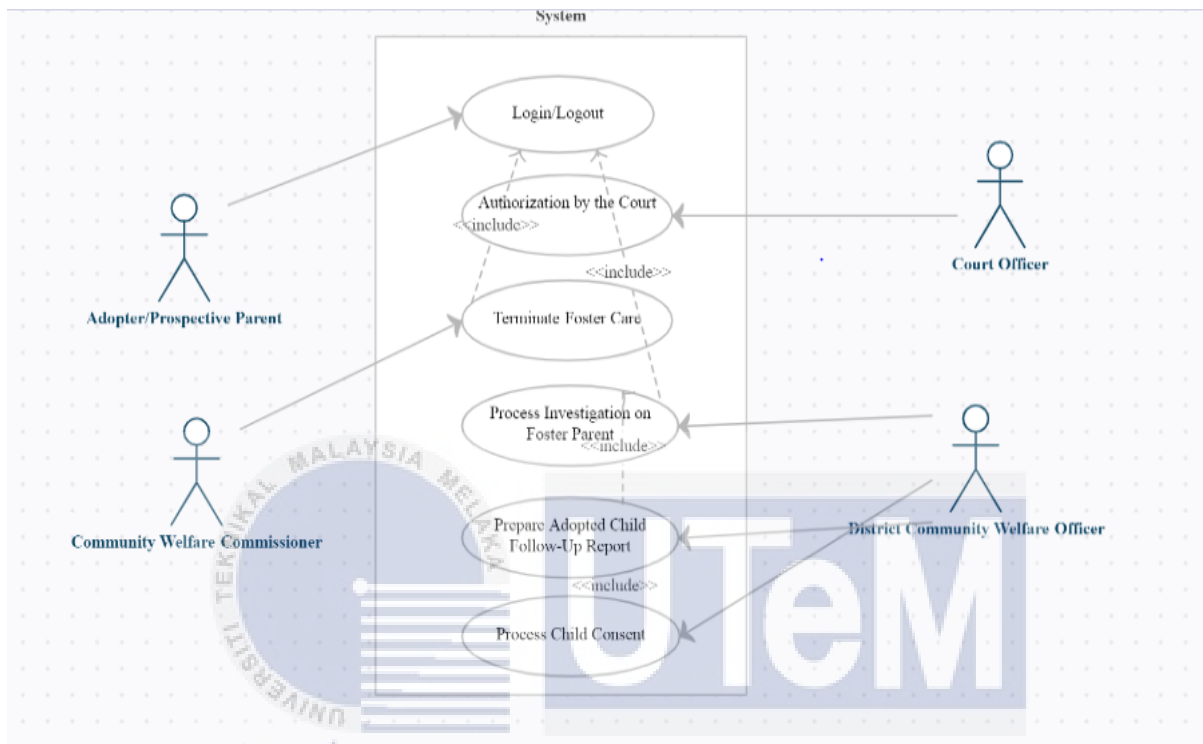


Figure 6: Use case Diagram for CWAFCMS

3.3.3 Non-Functional Requirement

Non-functional criteria suggests that how the system will work and represents a constraint on the action of the system. Device characteristics are often referred to as non-functional specification. CWAFCMS non-functional requirements are:

3.3.3.1 Accuracy

The information provided on the website must be accurate since this system is created for child welfare.

3.3.3.2 User Authentication

Unauthorized users are not allowed to access the system. Protection of user data is very important.

3.3.4 Other Requirements

Certain necessities provide support for the use of the hardware, software and network needs used to build the system

3.3.4.1 Software Requirement

The system required to develop this website are listed below

Table 8:Software requirement

Software	Usage
Microsoft Visual Studio Code	A platform to run the code
Chrome	It is a browser used for searching information and accessing the information
Operating System	Window 10
Microsoft word 2013	It uses to prepare the system report
Microsoft power point 2013	It is the processor use to represent the project

3.3.4.2 Hardware Requirement

To build this system minimum hardware needed is,

Table 3.3.7: Hardware Requirement

Table 9:Hardware Requirement

Software	Usage
CPU	Intel corei3
Processor Speed	2.00GHz
RAM	4.00GB
Type of system	32-bit operating system

3.4 Conclusion

To sum up, some of the specifications included in this project, such as data dictionary analysis, requirements for operating system and problem analysis were addressed in this chapter. The next chapter will address the architecture of the system.



Chapter 4 Analysis and Design

4.1 INTRODUCTION:

THE Child Welfare and Foster Care System development design will be discussed in detail in this chapter. All in all, the flow of the system will be clarified. A developer will design the system based on all requirements gathered before, after collecting all the information from the analysis phase.

Two aspects are the high-level design and device architecture that will be discussed here. It will discuss more of device's structure in high-level design which is how the system will communicate with each other like end-user or hardware. Then for the design of the user interface, it will display the user's device interface that has various levels to login to the system. Navigation design that demonstrates how that navigates when the user clicks on the button, menu, or connection below it. It explains in the input design what data the user should fill in to be saved throughout the database. Validation is also important to ensure that only valid data contained in the database is valid. What information can be extracted from the database for output design and the data can be converted to information such as described using a graph.

There are ERD, dictionary, normalization, and business rules for conceptual and logical database design. System design will be controlled, and it is also the section during which problems solving and preparation is conducted for the system solution process. At last, the configuration of the physical database, in which all the features of database are applied."

4.2 High-level Design:

The whole project framework design is high-level Design (HLD). The system architecture in Section 4.2.1 and database design in Section 4.2.3 are handled by HLD. It describes the relationship between the various modules and functional requirement, such as data streams, flowcharts, and structures of data.

4.2.1 System Architecture:

A summary of how anything could work and the top-level components that will include the purposed solutions represented in high-level design. Below is the architecture of the framework for the Child Welfare and Foster Care system.

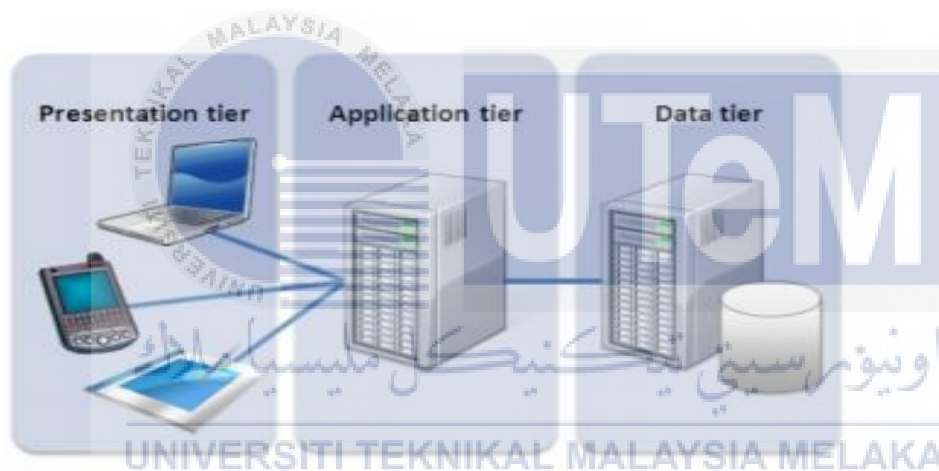


Figure 7: System Three-tier Architecture

The Registration Module, Log in Module, Adopter Module, Child Module, Adoption Management Module, and department Module are six modules that are included in this system. The users of this program are Owner Service Provider who is responsible for offering services, managing adoptions, and having the list of children.

4.2.2 Interface Design of User:

The User Interface Design (UI) outline is the tool requirement to accurately design and view the UI on the screen. This section would capture online web design in section 4.2.2.1, the input design in section 4.2.2.2 and 4.2.2.3 output design.

4.2.2.1 Navigation design

The design of navigation is a design of how the whole system will be managed to navigate by the system. The form of the system shows in figure given below that there is a URL link, where user clicked on the linked text and the page is redirected to the page defined. The Child Welfare and Foster Care System CWAFCS is given below

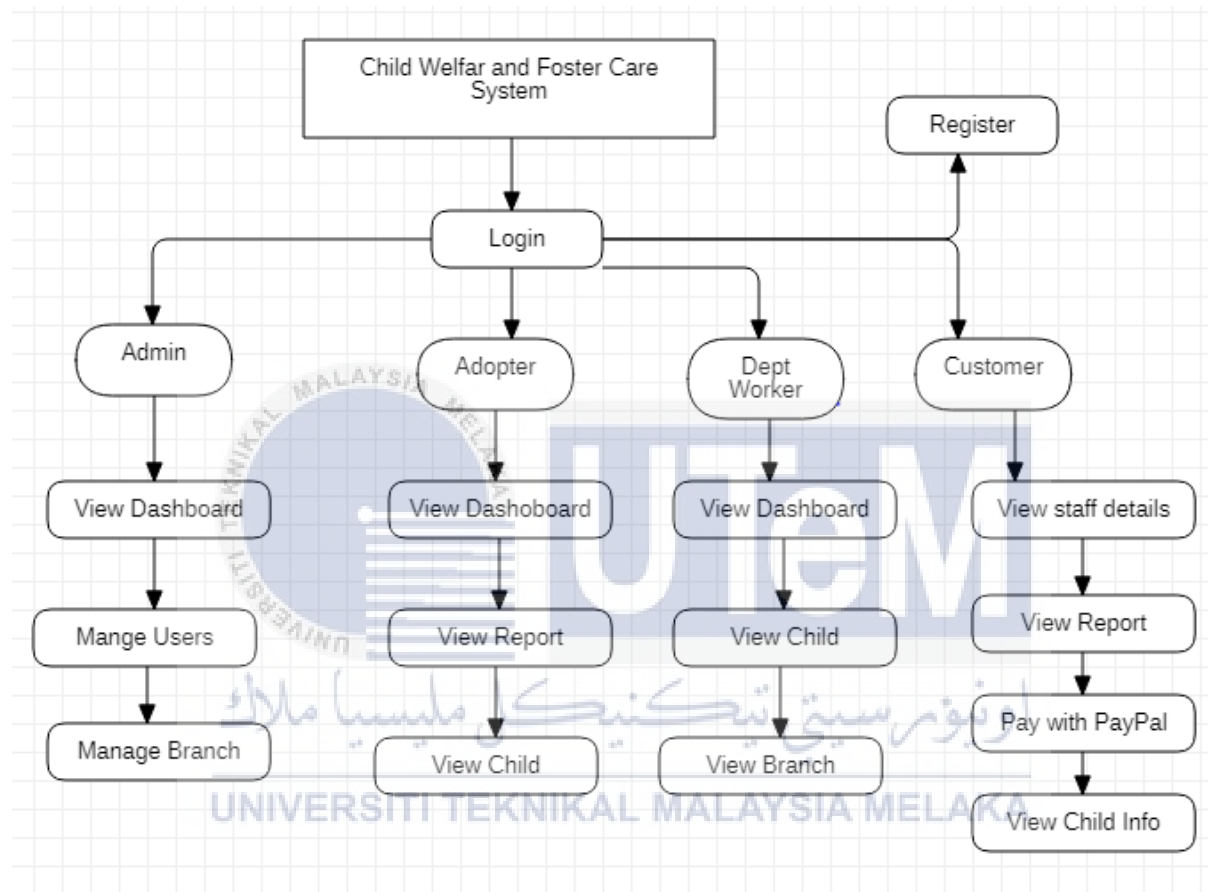







Figure 8: Navigation Design

Navigation Design

4.2.2.2 Input Design

The specifications of the covered entity that will be used on the user interface is the input design. Text, numbers, alphabets, icons, and more are example of input forms. Some input is necessary so that the data is keep in database securely

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Born in My Heart

Adoption  Online Child Adoption System

Login as an Adopter
 Login if you already have an account

[Login >](#)

Figure 9:Login Page

Table 10: System Admin

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 	int(11)			No	None		AUTO_INCREMENT
2	username	varchar(50)	latin1_swedish_ci		No	None		
3	password	varchar(100)	latin1_swedish_ci		No	None		
4	full_names	varchar(100)	latin1_swedish_ci		No	None		
5	email	varchar(50)	latin1_swedish_ci		No	None		

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Home Adopt a child Login / Register

Born in My Heart

Adoption Online Child Adoption System

Login in as Department Worker

Username

Password

Login >

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Online Child adoption System is a system that manages the adoption process for The Department of Youth and Child Affairs in the

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Login
Register
Admin

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Figure 10: Admin Output

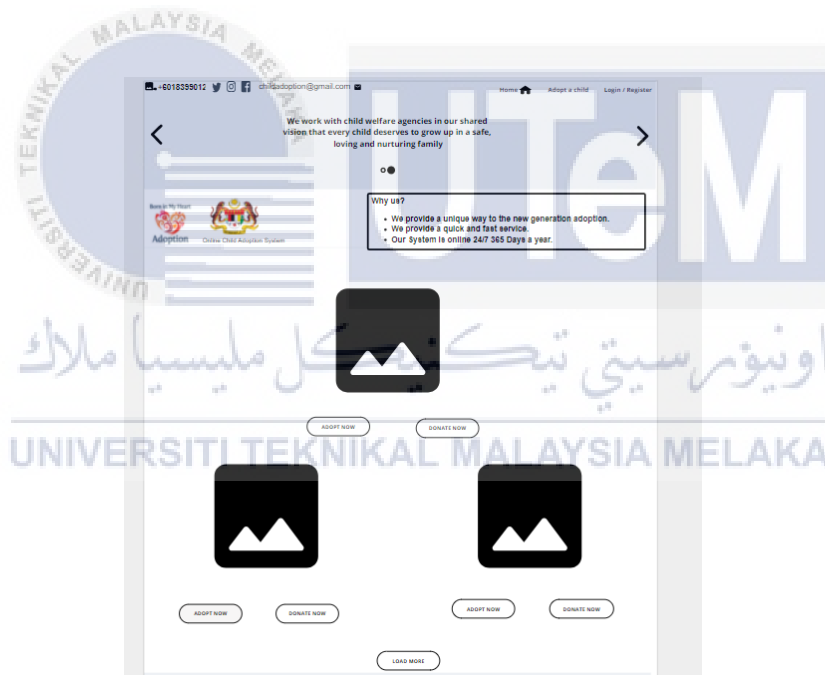


Figure 11: Adoption page

Table 11: Adoption Table



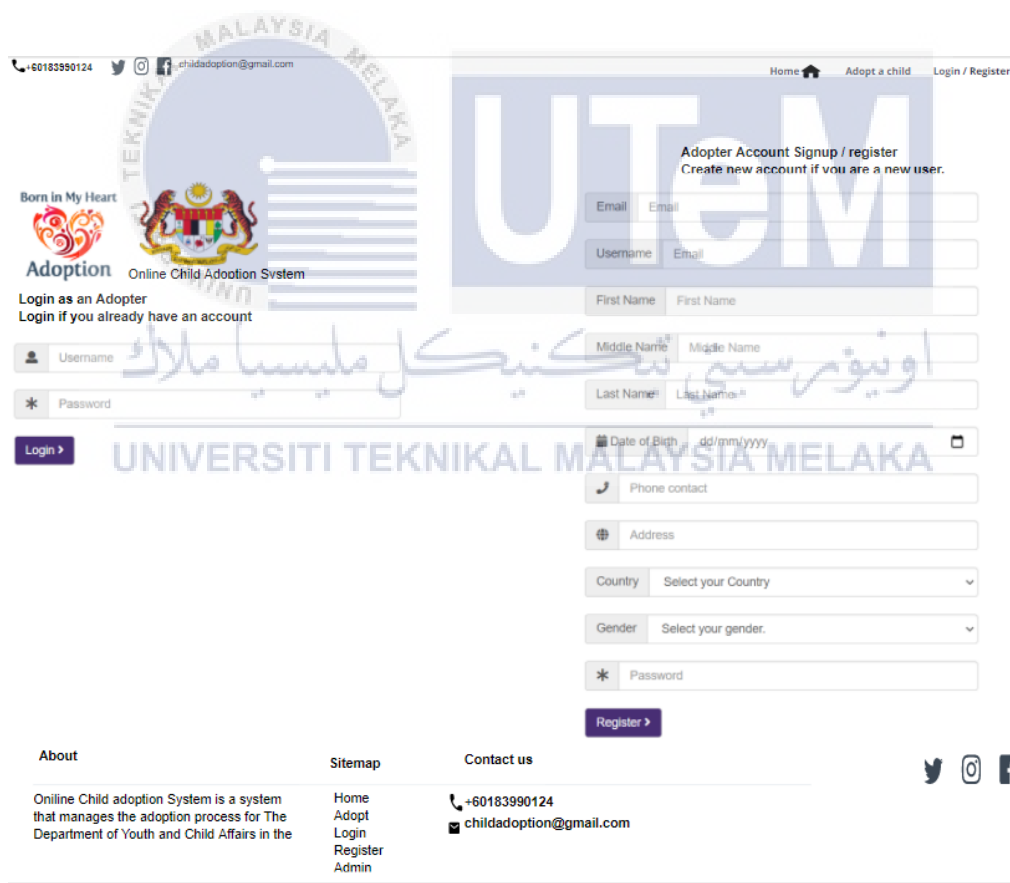
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 	int(11)			No	None		AUTO_INCREMENT
2	adopter_id	int(11)			No	None		
3	child_id	int(11)			No	None		
4	remarks	text	latin1_swedish_ci		No	None		
5	department_worker_id	int(11)			No	None		
6	status	tinyint(4)			No	None		
7	marital	text	latin1_swedish_ci		No	None		
8	profession	text	latin1_swedish_ci		No	None		
9	income	int(11)			No	None		
10	reason	text	latin1_swedish_ci		No	None		
11	language	varchar(100)	latin1_swedish_ci		No	None		








Figure 12: Child Profile Page

Table 12: Child Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 	int(11)			No	None		AUTO_INCREMENT
2	first_name	varchar(50)	latin1_swedish_ci		No	None		
3	last_name	varchar(50)	latin1_swedish_ci		No	None		
4	user_image	text	latin1_swedish_ci		No	None		
5	sex	tinyint(4)			No	None		
6	date_of_birth	date			No	None		
7	about	text	latin1_swedish_ci		No	None		
8	middle_name	varchar(50)	latin1_swedish_ci		No	None		
9	date_added	date			No	None		
10	adopted	tinyint(4)			No	0		



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Home  Adopt a child  Login / Register

UTEM

Adopter Account Signup / register
Create new account if you are a new user.

Email

Username

First Name

Middle Name

Last Name

Date of Birth

Phone contact

Address

Country

Gender

* Password

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Figure 13 Registration Page

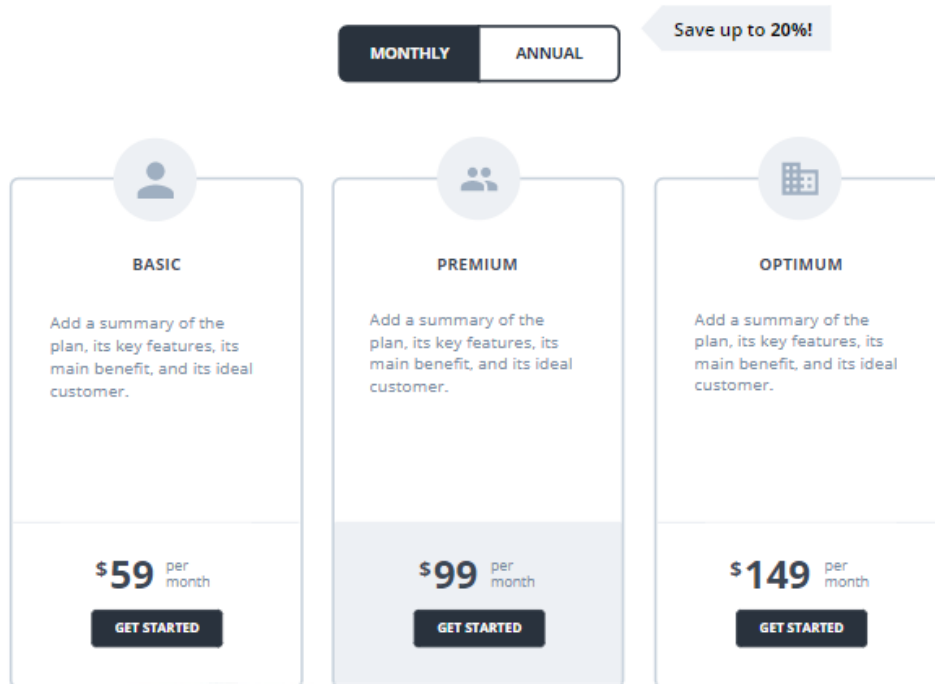


Figure 14 plan page

Table 13: Plan Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id	int(11)			No	None		AUTO_INCREMENT
2	package	varchar(100)	latin1_swedish_ci		No	None		
3	price	float			No	None		
4	description	varchar(200)	latin1_swedish_ci		No	None		

4.2.2.3 Output Design

It is the design which use can view after entering some information in the form. What the users can see is defined in this section. The information came from the user defining the or providing the data.

4.2.3 Database Design:

Conceptual design and logical design are split into two database.it provide a complete database model.

4.2.3.1 Conceptual Database Design(s):

ERD has demonstrated the connection of the set of substances to the database. The information segment is an element in this setting. Nowadays, ER outlines represent an intelligent database structure. My SQL database is used in this project to store information and user data. The database is unable the user to perform more complex queries such as insert and retrieving the data from the database. The database model that designed for the application will demonstrate as below.

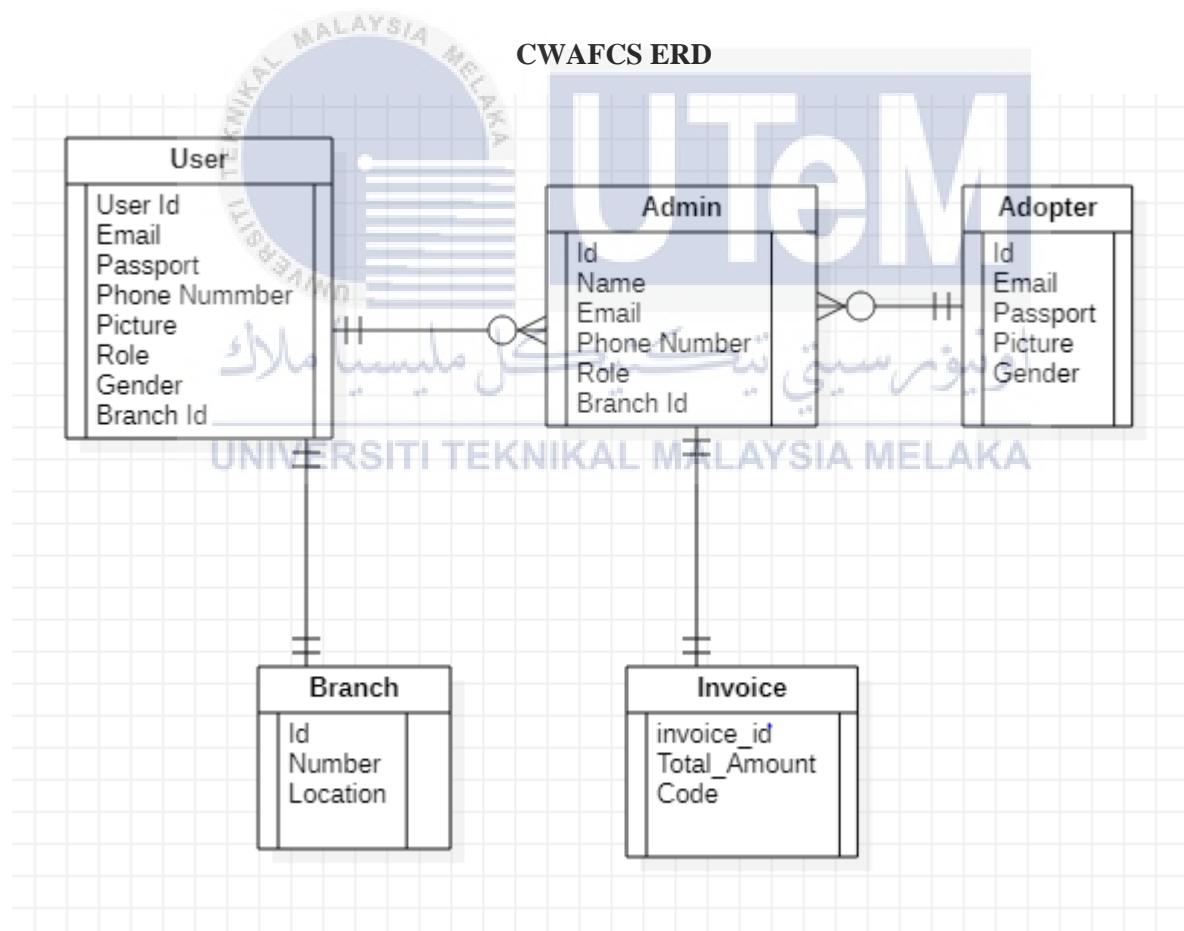


Figure 15: CWAFCS ERD

4.2.3.2 Logical Database Design:

The aim of the necessary data is to define and record the entities within the scope of the project, as well as the preliminary results attributes that will affect the understandings of the structure of the technology. There are several things that need to be considered when defining information needs, like identifying entities and their attributes with its relationships among entities assessing the size and volume of each entity and identifying data protection for certain attributes.

Table 14: Adoption


#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 	int(11)			No	None		AUTO_INCREMENT
2	first_name	varchar(50)	latin1_swedish_ci		No	None		
3	middle_name	varchar(50)	latin1_swedish_ci		No	None		
4	last_name	varchar(50)	latin1_swedish_ci		No	None		
5	telephone	varchar(20)	latin1_swedish_ci		No	None		
6	residence	text	latin1_swedish_ci		No	None		
7	email_address	varchar(50)	latin1_swedish_ci		No	None		
8	nationality	varchar(50)	latin1_swedish_ci		No	None		
9	gender	tinyint(4)			No	None		
10	user_image	text	latin1_swedish_ci		No	None		
11	username	varchar(50)	latin1_swedish_ci		No	None		
12	password	text	latin1_swedish_ci		No	None		

Table 15: Adoption


#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 	int(11)			No	None		AUTO_INCREMENT
2	adopter_id	int(11)			No	None		
3	child_id	int(11)			No	None		
4	remarks	text	latin1_swedish_ci		No	None		
5	department_worker_id	int(11)			No	None		
6	status	tinyint(4)			No	None		
7	marital	text	latin1_swedish_ci		No	None		
8	profession	text	latin1_swedish_ci		No	None		
9	income	int(11)			No	None		
10	reason	text	latin1_swedish_ci		No	None		
11	language	varchar(100)	latin1_swedish_ci		No	None		

Table 16: Child Table


#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 	int(11)			No	None		AUTO_INCREMENT
2	first_name	varchar(50)	latin1_swedish_ci		No	None		
3	last_name	varchar(50)	latin1_swedish_ci		No	None		
4	user_image	text	latin1_swedish_ci		No	None		
5	sex	tinyint(4)			No	None		
6	date_of_birth	date			No	None		
7	about	text	latin1_swedish_ci		No	None		
8	middle_name	varchar(50)	latin1_swedish_ci		No	None		
9	date_added	date			No	None		
10	adopted	tinyint(4)			No	0		

Table 17: Department worker table


#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 	int(11)			No	None		AUTO_INCREMENT
2	name	varchar(100)	latin1_swedish_ci		No	None		
3	username	varchar(50)	latin1_swedish_ci		No	None		
4	gender	tinyint(4)			No	None		
5	telephone	varchar(20)	latin1_swedish_ci		No	None		
6	email_address	varchar(50)	latin1_swedish_ci		No	None		
7	image	text	latin1_swedish_ci		No	None		
8	password	varchar(100)	latin1_swedish_ci		No	None		

Table 18: Payment Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	payment_id	int(11)			No	None		AUTO_INCREMENT
2	Name	varchar(200)	latin1_swedish_ci		No	None		
3	Card_num	varchar(20)	latin1_swedish_ci		No	None		
4	expire_date	varchar(7)	latin1_swedish_ci		No	None		
5	cvc	int(10)			No	None		
6	post_code	int(7)			No	None		
7	total_amount	float			No	None		
8	plan_id	int(11)			No	None		
9	user_id	int(11)			No	None		
10	date	date			No	current_timestamp()		

Table 19: Plan Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id	int(11)			No	None		AUTO_INCREMENT
2	package	varchar(100)	latin1_swedish_ci		No	None		
3	price	float			No	None		
4	description	varchar(200)	latin1_swedish_ci		No	None		

Table 20: System Admin Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id	int(11)			No	None		AUTO_INCREMENT
2	username	varchar(50)	latin1_swedish_ci		No	None		
3	password	varchar(100)	latin1_swedish_ci		No	None		
4	full_names	varchar(100)	latin1_swedish_ci		No	None		
5	email	varchar(50)	latin1_swedish_ci		No	None		

4.3 Detailed Design(s):

The structural design follows the period of concepts design, application of design requirements and product and construction specifications, and eventually specific solution for qualified implementation.

4.3.1 Use Case Design

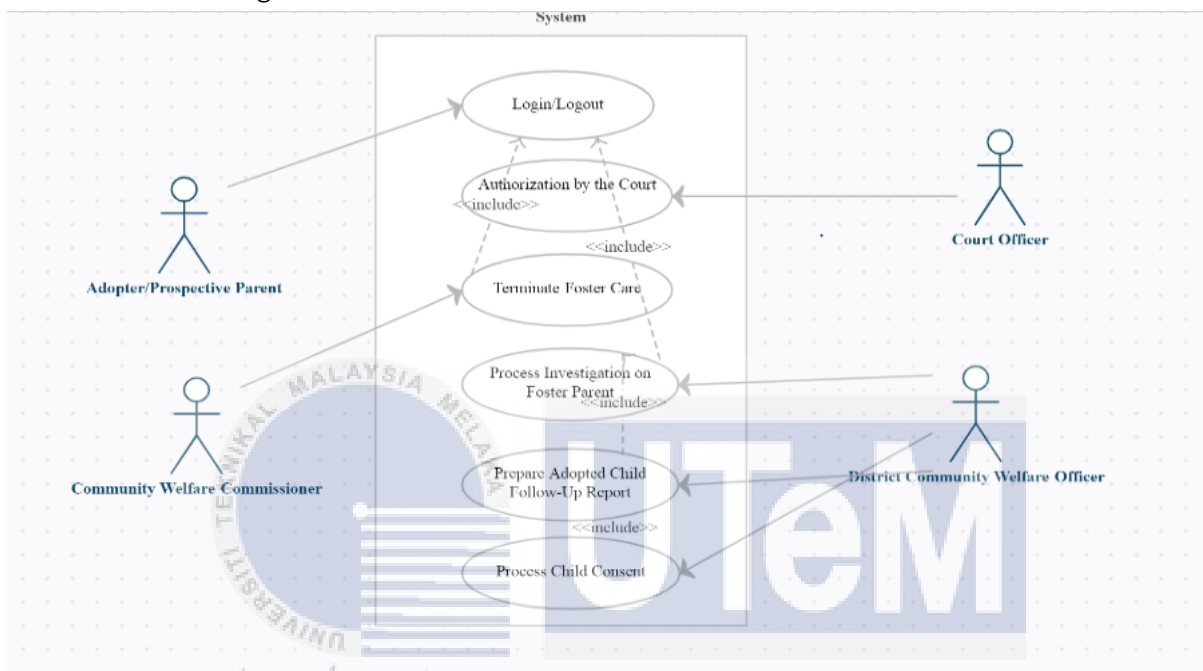


Figure 16 : USE case Diagram

4.3.2 Physical Database Design(s):

The conceptual configuration of the database is modified to the goal DBMS software file in physical design. To construct database and database objects, Data Definition Language (DDL) will be used. User views are intended to monitor access to a specific part of one or more of the databases.

4.3.2.1 Data Definition language (DDL):

DDL is used for creating, updating, and dropping database and database data. Theories table, views, sequences, and indexes contain these database objects Database managers use this command during the startup and removal phases of database objects. TO display the output, a DDL statement will be generated and processed. For describing data structure, DDL is also known as programming language.

4.3.2.2 Create table(s):

The table is the position in the database for keeping data. The row and column are included. Each row includes one data item which needs to be different from the other.

Adopter Table

```
CREATE TABLE IF NOT EXISTS `adopter` (
  `id` int(11) NOT NULL,
  `first_name` varchar(50) NOT NULL,
  `middle_name` varchar(50) NOT NULL,
  `last_name` varchar(50) NOT NULL,
  `telephone` varchar(20) NOT NULL,
  `residence` text NOT NULL,
  `email_address` varchar(50) NOT NULL,
  `nationality` varchar(50) NOT NULL,
  `gender` tinyint(4) NOT NULL,
  `user_image` text NOT NULL,
  `username` varchar(50) NOT NULL,
  `password` text NOT NULL
) ENGINE=InnoDB AUTO_INCREMENT=4
INSERT INTO `adopter` (`id`, `first_name`, `middle_name`, `last_name`, `telephone`, `residence`, `email_address`, `nationality`, `gender`, `user_image`, `username`, `password`) VALUES
(1, 'skdlks', 'sdsd', 'sdsdsd', 'sdsdsd', 'sdsdsd', 'nnyanziian@gmail.com', 'AZE', 1, 'default.png', 'ianian', '$2y$10$VrmcShYhUGzmq95lbUymKeOkvdRjD/ZfDXEGNRD.aU7hs7pX56KW'),
(3, 'Asiimwe', 'Calvin', 'Barugahara', '0752683332', 'Muyenga Bukasa', 'asiimwekharlveen@gmail.com', 'UGA', 1, 'default.png', 'Calvinaire', '$2y$10$3X7lCalsa1JE4etF.dSESOS4PFIgoz5cq9cqyra6NUjBFFjHwj1ga'),
(4, 'Ssengoba', 'Alex', 'John', '0718392752', 'Kawempe', 'ssengoba@outlook.com', 'UGA', 1, 'default.png', 'ssengoba', '$2y$10$dzCXzwOh50McITZqx3XRL.OSACbIzsaYO0pCBQHg0fYYaaCAgOKm2');
```

Adoption Table

```
CREATE TABLE `adoption` (
  `id` int(11) NOT NULL,
  `adopter_id` int(11) NOT NULL,
  `child_id` int(11) NOT NULL,
```



```

`remarks` text NOT NULL,
`department_worker_id` int(11) NOT NULL,
`status` tinyint(4) NOT NULL,
`marital` text NOT NULL,
`profession` text NOT NULL,
`income` int(11) NOT NULL,
`reason` text NOT NULL,
`language` varchar(100) NOT NULL
)
INSERT INTO `adoption` (`id`, `adopter_id`, `child_id`, `remarks`, `department_worker_id`, `status`,
`marital`, `profession`, `income`, `reason`, `language`) VALUES
(6, 4, 3, "", 0, 0, 'Divorced', 'Developer', 5000000, 'Cool', 'Lug');

```

Child Table

```

CREATE TABLE `child` (
  `id` int(11) NOT NULL,
  `first_name` varchar(50) NOT NULL,
  `last_name` varchar(50) NOT NULL,
  `user_image` text NOT NULL,
  `sex` tinyint(4) NOT NULL,
  `date_of_birth` date NOT NULL,
  `about` text NOT NULL,
  `middle_name` varchar(50) NOT NULL,
  `date_added` date NOT NULL,
  `adopted` tinyint(4) NOT NULL DEFAULT 0
)
INSERT INTO `child` (`id`, `first_name`, `last_name`, `user_image`, `sex`, `date_of_birth`, `about`,
`middle_name`, `date_added`, `adopted`) VALUES
(2, 'Nnyanzi', 'Ian', '5859a8b07f3fc90e0bce45749a78e886.jpg', 1, '1995-07-22', 'What now', 'Kajoga',
'2018-04-12', 0),
(3, 'Hanesha ', 'Faith', 'default.png', 2, '2018-05-10', 'she is a humble girl ', 'Clara', '2018-05-09', 0);

```

Table structure for table `department_worker`

```
CREATE TABLE `department_worker` (
  `id` int(11) NOT NULL,
  `name` varchar(100) NOT NULL,
  `username` varchar(50) NOT NULL,
  `gender` tinyint(4) NOT NULL,
  `telephone` varchar(20) NOT NULL,
  `email_address` varchar(50) NOT NULL,
  `image` text NOT NULL,
  `password` varchar(100) NOT NULL
)
```

Dumping data for table `department_worker`

```
INSERT INTO `department_worker` (`id`,`name`,`username`,`gender`,`telephone`,`email_address`,`image`,`password`) VALUES
```

- (1, 'Nnyanzi Ponsiano', 'nnyanziian', 1, '0701964728', 'nnyanziian@krobits.com', '9512tyler-the-creator-eric-white-interview-01.jpg', '\$2y\$10\$hGNs/Z9oMXmYVlus3X39OepW3XnZhsVCll0dR.4zudNcXs.yrgyI.'),
- (3, 'dffdf', 'dfdfdf', 1, 'dfdfdff', 'fdffdf@gmd.com', 'default.png', '\$2y\$10\$BpCm3vnpFNLIzD1uKKJjX.XcqrewSsqhk3GH3zt.fY1.sdLIHt9oK'),
- (5, 'DFjdjfl', 'lsilskdsld', 1, 'dfdfdff', 'dfdfdfdfdfdfdf@dfdf.com', 'default.png', '\$2y\$10\$9zXVTgOgTJC3eZwDLjXhCOU1Qz27GF8QvVWR80voqM5WRw/c2sQpe'),
- (6, 'Onen Julius', 'jonen', 1, '0723792388', 'jonen@gmail.com', 'default.png', '\$2y\$10\$Kw.4Zp77Ru0MIAaLRtloMex7UO1clELjHdVKtv02YKnhl5O5pPDRa'),
- (7, 'Ssengoba Pius', 'ssengoba', 1, '088883333388338', 'ssengobapius@hotmail.com', 'default.png', '\$2y\$10\$fEvWH5h6Uo6KDZcIKcQyJeTnneNgBu2l1Q0EawuuP/fSkAlpwaENy'),
- (8, 'Nalubega Kotlin', 'nalubega', 2, '07829389239', 'nalubega@kotlin.com', 'default.png', '\$2y\$10\$xoAitVnmCRk3CKqUonB8vuESNP88KGeQpGdOdS8Xg7TjOSI2JQLY2'),

```
(9, 'Makumbi', 'makumbi', 1, '08723892923', 'makk@gmail.com', 'user-1.jpg', '$2y$10$B6MLV3I8MYrCEZ6qpblDHeg/1zrBWLdyG4wp.bA9bz96cO.kT5fkq');
```

Table structure for table `payment`

```
CREATE TABLE `payment` (
  `payment_id` int(11) NOT NULL,
  `Name` varchar(200) NOT NULL,
  `Card_num` varchar(20) NOT NULL,
  `expire_date` varchar(7) NOT NULL,
  `cvc` int(10) NOT NULL,
  `post_code` int(7) NOT NULL,
  `total_amount` float NOT NULL,
  `plan_id` int(11) NOT NULL,
  `user_id` int(11) NOT NULL,
  `date` date NOT NULL DEFAULT current_timestamp()
)
```

Dumping data for table `payment`

```
INSERT INTO `payment` (`payment_id`, `Name`, `Card_num`, `expire_date`, `cvc`, `post_code`,
`total_amount`, `plan_id`, `user_id`, `date`) VALUES
(42, 'dasd', '3242423423423423', '04 / 23', 423, 75450, 40, 1, 5, '2021-06-09'),
(45, 'fsdfsfsf', '4324 2424 2423 4242', '03 / 42', 423, 75450, 300, 4, 5, '2021-06-09');
```

Table structure for table `plan`

```
CREATE TABLE `plan` (
  `id` int(11) NOT NULL,
  `package` varchar(100) NOT NULL,
  `price` float NOT NULL,
  `description` varchar(200) NOT NULL
```

)

Dumping data for table `plan`

```
INSERT INTO `plan` (`id`, `package`, `price`, `description`) VALUES
```

(1, 'Once', 0, 'Even a one-off donation where it is needed most can make a positive impact on children and young people around the world.'),

(2, 'Monthly', 100, 'A regular monthly donation helps us become more effective.'),

(3, 'Quarterly', 200, 'With an assured income stream we can provide life transforming services every day of the year without cutting corners or compromising. We can \'dare to plan\' for long-term growth.'),

(4, 'Annually', 300, 'You can sponsor a child covering all his or her basics needs on his life.');

Table structure for table `system_admin`

```
CREATE TABLE `system_admin` (
  `id` int(11) NOT NULL,
  `username` varchar(50) NOT NULL,
  `password` varchar(100) NOT NULL,
  `full_names` varchar(100) NOT NULL,
  `email` varchar(50) NOT NULL
)
```

Dumping data for table `system_admin`

```
INSERT INTO `system_admin` (`id`, `username`, `password`, `full_names`, `email`) VALUES
```

(1, 'nnyanziiian', '\$2y\$10\$E6Q3LOXKHzNxUibTs4flt.nlNmlGPPBvz487WoyfxfY22IZt6JXzq', 'Nnyanzi Ian Kajoga', 'nnyanziiian@gmail.com'),

(2, 'Mohamed', '123', 'Mohamed Ali', 'mohamed@gmail.com'),

(3, 'Khalid', '\$2y\$10\$O/Q8zAf11a8Aul/p3aqf./PSuy9mPOZkTZcjK1BJwjYBBf1BxhS6', 'Khalid', 'khalid24@gmail.com');

Indexes for table `adopter`

```
ALTER TABLE `adopter`  
  ADD PRIMARY KEY (`id`);
```

Indexes for table `adoption`

```
ALTER TABLE `adoption`  
  ADD PRIMARY KEY (`id`);
```

Indexes for table `child`

```
ALTER TABLE `child`  
  ADD PRIMARY KEY (`id`);
```

Indexes for table `department_worker`

```
ALTER TABLE `department_worker`  
  ADD PRIMARY KEY (`id`);
```

Indexes for table `payment`

```
ALTER TABLE `payment`  
  ADD PRIMARY KEY (`payment_id`);
```

Indexes for table `plan`

```
ALTER TABLE `plan`  
  ADD PRIMARY KEY (`id`);
```



Indexes for table `system_admin`

```
ALTER TABLE `system_admin`  
  ADD PRIMARY KEY (`id`);
```

AUTO_INCREMENT for table `adopter`

```
ALTER TABLE `adopter`  
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;
```

AUTO_INCREMENT for table `adoption`

```
ALTER TABLE `adoption`  
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=7;
```

AUTO_INCREMENT for table `child`

```
ALTER TABLE `child`  
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
```

AUTO_INCREMENT for table `department_worker`

```
ALTER TABLE `department_worker`  
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=10;
```

AUTO_INCREMENT for table `payment`

```
ALTER TABLE `payment`
```

```
MODIFY `payment_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=46;
```

AUTO_INCREMENT for table `plan`

```
ALTER TABLE `plan`
```

```
MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=5;
```

AUTO_INCREMENT for table `system_admin`

```
ALTER TABLE `system_admin`
```

```
MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
```

```
COMMIT;
```

4.4 Conclusion:

The design process of the Child Welfare system identified and recorded the part and system architecture correctly. The proposed system that contains the system design that has been demonstrated is a high-level design. The design of the system's user interface is also shown in this chapter. It involves navigation design, input design, output design, and other output from this stage that can be used as a good guide for the implementation of the system. This database design, based on the following design, makes system planning with a specific guide simpler. Moreover, the architecture permits users to see the system flow from beginning to end.

CHAPTER V IMPLEMENTATION

5.1 Introduction

The software development environment setup, software configuration management, and system requirements are outlined in this chapter. Configuration of operating system, appropriate applications, and the hardware required in the software development environment. Implementation phase involves the setup and version control procedure of your environment as well as the implementation setup that seeks to use all the data obtained in the preceding phase and to operate a requirement driven framework.

5.2 Software Development Environment Setup (s)

Software development environment setup (SDE) is a complete and unifying framework of services sporting most phases of software development and maintenance. We identify three level at which the issue of integration in an SDE arise as a key concept at the mechanism level interoperability of the hardware and basic software, at the end user services level combining the methods and paradigms of the various tools, and at the process of adapting end user services to the working practices of different users, projects, and organizations.

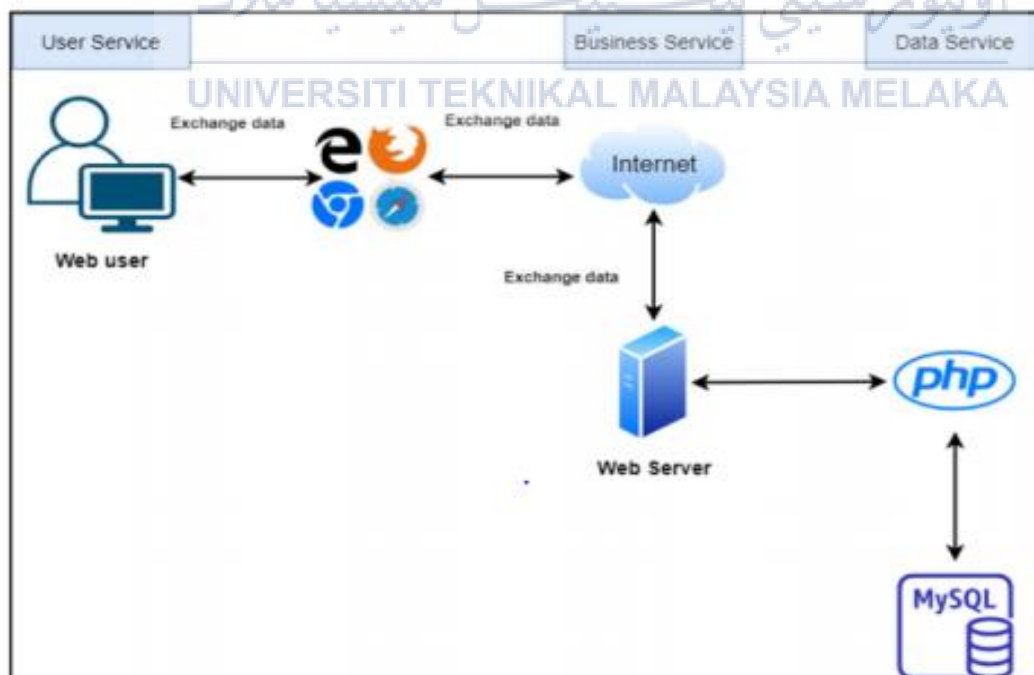


Figure 17: System Development Environment

System Development environment

User services, professional services and communication services consists of 3 layers. The main client is for the UI. The framework can be used by user using is user interface. The PHP connection between the host and the data base is used for business services. So, the system will respond to the user's enter data. MySQL used as a data base for the data providers to data storage inserted into this system.

5.3 Software Configuration Management

There is a need to handle the device setup well. System configuration strategy is intended at checking the whole device and detecting misconfiguration bugs, software errors, and equipment codes.

5.3.1 Configuration Environment Setup

System configuration management (SCM) is a controlling and coordinating mechanism or regularly tracks changes in the records, codes, and other organizations during software development life cycle. It is important to maximize production cycle efficiency with minimum errors.

i. Server Configuration

The internet used for server setup to fully link the website to the data base. This server consists of one or more nodes openly accessible to a given request response message system.

ii. Database Configuration

PHP My Admin is used in the design of databases and MySQL is used in the reference folder.

5.3.2 Version Control Procedure

For the project's growth, version control is critical. This project uses to get to control versioning, tracking changes in files, and coordinates. It is frequently used for the management of source code in software development, even when Git Hub is a free software to the business development platform. The developer can host and review the code for managing their projects. In different programming dialects, the creator may also provide source code extensions, and track the group's progress.

5.4 Status of Implementation

Table 21: Status of Implementation

Modules	Description	Duration	Completion Date	Size
User Login Admin Adopter Accountant Department worker	Admin, Adopter, Accountant, Department worker should insert their data which are email and password to login into the system.	2Days	29/07/2021	20kb
Registration for customer	Customer or Adopter needs to enter the information such as email, name password, gender etc.	2Days	04/08/2021	15kb
Manage User	Admin will be able to insert, update or delete user details	4Days	08/08/2021	20kb
Manage Branch	Admin will be able to manage i-e insert, update, delete the branch details	1Day	09/08/2021	10kb
Dashboard	Show how many users and branch for the admin. Show total adoption details, total child and total department workers	2Days	12/08/2021	10kb
Manage Adoption	Department workers are able to insert, update and delete the details	2Days	14/08/2021	50kb
View Adoption	Show all the inserted details	1Day	C	5kb
Manage Child's Information	Department workers are able to insert, update and delete the details	2Days	16/08/2021	20kb
Manage Department worker information	Admin will able to insert, update and delete the details	2Days	18/08/2021	6kb
Payment	The customer can pay by using PayPal	2Days	20/08/2021	20kb

5.5 Conclusion

This chapter ends how implementing the software is very important as it requires the correct functioning of the current system in its context, including implementation, setup, testing and system modifications. Without the right resources, a project cannot be effectively executed. The tools will help developers control the project more during the process of implementing the program. As described in first chapter, Child Welfare, and foster care System (CWAFCS) uses three-tier technology involving the connection between databases, web servers, and web browsers. CWAFCS includes MySQL as its database, internet information services as its web server, and Microsoft edge as its web browser.



CHAPTER VI TESTING

6.1 Introduction

The testing phase is the stage that follows implementation of Child Welfare and Foster Care System (CWAFCs) with the aim of verifying whether it is responding to the current problem or is it doing what a should do. IT also includes examining the system's functionality .In general to ensure that the program is responding to user needs. They will verify the system's performance in security and probability issue. The bottom line is that the system has to be delivered, not only does it work properly but also meets other attributes such as ease of use and maintainability .The following test methods have been used to attempt to detect all potential errors and to verify the system fully meets its requirements .It is worth nothing that we tried to follow the best practices.

6.2 Test Plan

The main purpose of the testing plan for the Child Welfare and Foster Care System (CWAFCs) is to discuss test details for Child Welfare and Foster Care System (CWAFCs) use cases. The Program Project Test Plan also describes the objective, scope, and approach of the program testing effort for the Child Welfare and Foster Care System (CWAFCs) testing plan also indicates which personnel are responsible for each task and identifies the risks associated with the plan.

6.2.1 Test Organization

The testing organization describes the personnel who will involve in the test unit organization, integration test, device test and user acceptance were carried out in four types of tests. Basically, as the general framework involves protocols, functional codes, structure and system modules, this tester will be the main task.

Table 22: test organization of CEAFCs

Test Organization of CWAFCs

Tester Id	Name	Roles	Responsibility
T001	Karam	Manger	Responsible for project development and preparation of test cases and sample data
T002	Shaath	Tester	Responsible for conducting the test as written in test cases

6.2.2 Test Environment

The test environment is set up for this system on WIFI that has not been blocked. The laptop in use must also be connected to the internet. The system will be tested in a local host server and then uploaded to the global finally, the laboratory must follow the test plan to carry out the test. There is a test running on the local computer that requires Internet Information Services, XAMPP, and Google chrome/Microsoft Edge browser.

Table 23: Test Organisation of CWAFCFS

Test Organization of CWAFCFS

Environmental standards	Description
OS	Windows 10
Processor	Intel core i3
RAM	4.00GB
Database	MYSQL

The software for the system consists of modules that were introduced in the Child Welfare and Foster Care System (CWAFCFS). The services in the development of this device are show in table,

Table 24: System Software of CWAFCFS

System Software of CWAFCFS

System Software
<ol style="list-style-type: none"> 1- Windows 10 2- Brackets 3- Xamp 4- Microsoft Edge (Web Browser)

System hardware involved in developing System and the table is given below,

Table 25: System Hardware of CWAFCFS

System Hardware of CWAFCFS

System Hardware
<ol style="list-style-type: none"> 1- Memory (RAM): 12GB 2- Type of System: 64-BIT OS 3- Processing: Intel ® Core (TM) i7-4510U CPU @2.00GHz 2.60GHz

6.2.3 Test Schedule

The timeline is a checklist for research and assessment to ensure that testing has been carried out according to schedule. The test schedule, in other words, controls the timing and length of the test. During the test activity, the lab will have a set of instructions to complete the task. It will be time to take notes to ensure satisfactory results. The tester will use a released laptop computer with all the environment settings required to run the program and to aid in testing. For each operation, the system will perform all the essential required tests and time allocations as follows.

Table 26: Test schedule of CWAFCs

Test Schedule of CWAFCs

Activity of test	Period	Started Date	Ended Date
Integration Testing	20 Days	13/06/2021	3/06/2021
System Testing	6 Days	12/07/2021	18/07/2021
Acceptance Testing	3 Days	05/08/2021	08/08/2021

6.3 Test Strategy

The test strategy is a how-to guide that will describe how to test this system and what test was performed. The black box testing is the testing technique in this framework. A black box testing is a measure that checks the system without looking at the system's individual parts. This approach is used for verifying the integrity of any software test standard.

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6.3.1 Black box Testing

Black box testing is a form of test that avoids the system or component's internal mechanism and concentrates only on the results generated in result of different input and implementation criteria. There are several techniques in which the black box test task can be executed, and the techniques that have been used during the testing of the Child Welfare and Foster Care System (CWAFCs) are Use case, Decision tables, and equivalence analysis.

6.3.1.1 Use Case View

The usecase is used to show the user interaction with the system, any action which of tangible value of the user.

Table 27: login use case of CWAFCs

Login usecase of CWAFCs

Usecase Template	Succeed Login Usecase
Test Case ID	CW-001
Use Case Name	Succeed login
Use Case Description	Login User to the system
Actor	Admin, Manager, Department Worker, Adopter
Pre-Conditions	Admin, Manager, Department Worker, Adopter are registered
Post Conditions	Admin, Manager, Department Worker, Adopter are logged in to the system
Basic Flow	<ol style="list-style-type: none"> 1. Admin, Manager, adopter, department worker fills the login detail form 2. Admin, Manager, adopter, department worker clicks login button. 3. Admin, Manager, adopter, department worker are logged in.
Alternate Flow	Admin, Manager, adopter, department worker are not registered in the system
Tested Data	Email: alpha@gmail.com Password: 12345
Test Status	Pass

Table 28: Register Use case of CWAFCs

Register Use Case of CWAFCs

Usecase Template	Succeed Register Usecase
Test Case ID	CW-005
Use Case Name	Succeed Register
Use Case Description	Register Customer details to the system
Actor	Customer
Pre-Conditions	Admin, Manager, Department Worker, Adopter are registered

Post Conditions	Admin, Manager, Department Worker, Adopter are logged in to the system
Basic Flow	<ol style="list-style-type: none"> 1. Customer fills the login detail form 2. Customer clicks login button. 3. The System inserts the entered data to the database 4. Customer is logged in.
Alternate Flow	Customer is not registered in the system
Tested Data	Email: alpha22@gmail.com Password: 12345 Phone Number: 0145676598 Select Gender: Male
Test Status	Pass

6.3.1.2 Decision Tables

It is a programmatic testing method used to test the system behaviour of various input combinations table is given below

Table 29: Decision table of CWAFCs

Decision table of CWAFCs

Condition	Rule 1	Rule 2	Rule 3	Rule 4
Email	Valid email	Invalid email	Valid email	Invalid email
Password	Valid password	Valid password	Invalid password	Invalid password
Actions				
Login to the system	True	False	False	False
Error Message is displayed	False	True	True	True

6.3.13 Equivalence Analysis

Input data is divided into equivalence partitions that can be used to derive the test cases that reduces the time required for testing because of small number of test cases,

Equivalence Analysis of Phone number in the registration form

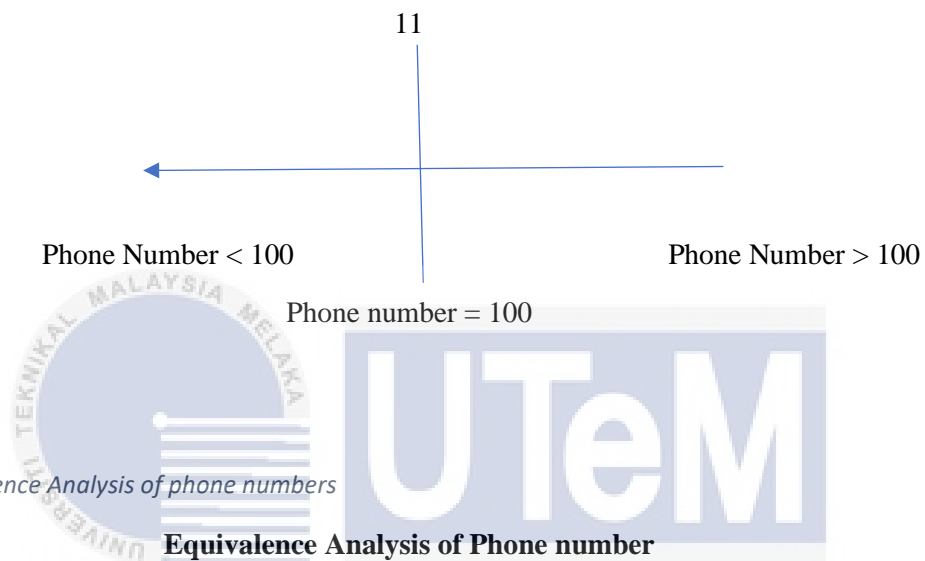


Table 30; Equivalence Analysis of phone numbers

Test Case ID	Phone Number	Partition Tested	Expected Output
1	9	Phone Number<11	Error Message
2	11	Phone Number=11	OK
3	15	Phone Number>11	Error Message

6.3.1 Classes of tests

Correctness is the prerequisite for the system and is the primary motivation for testing. The correctness test will need to determine the correct responses from the wrong answers. The tester may or may not know the internal features of the software unit under test, for example data structure and control variable. Therefore, the Black box view applies in testing the system. Note, that black box ideas are not just limited to test correctness.

6.4 Test Design

The key focus of this chapter is on research. For the detection of errors, each single test is significant. The unpredictable situation was corrected, and the reliability of the system ensured. This system test is intended to enable the developer to build a successful system for the general system. In addition, checking also increases device consistency in the absence of defect and problems.

6.4.1 Test Description

The definition of the test defines the collection of well before, testing dataset and predicted testing results mentioned. The tester may take the exam as a reference.

Table 31: Login Test case of CWAFCs

Login Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-001	Module Name: Login
Test Case	Expected Result
Check The response on entering the valid email and password	Login Must be successful

Table 32: Login test case of CWAFCs

Login Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-002	Module Name: Login
Test Case	Expected Result
Check The response on not entering the valid email and password	Login should fail

Table 33: login test case of CWAFCFS

Login Test Case of CWAFCFS

Project Name: Child Welfare and foster care	
Test Case Id: CW-003	Module Name: Login
Test Case	Expected Result
Check The response on not entering the valid email and password	Login should fail

Table 34: login test case of CWAFCFS

Login Test Case of CWAFCFS

Project Name: Child Welfare and foster care	
Test Case Id: CW-004	Module Name: Login
Test Case	Expected Result
Check The response on not entering the valid email and password	Login should fail

Table 35: Register test case of CWAFCFS

Register Test Case of CWAFCFS

Project Name: Child Welfare and foster care	
Test Case Id: CW-005	Module Name: Register
Test Case	Expected Result
Check The response on entering more and less than the required limit number	Register Must be successful

Table 36: Register test Case of CWAFCs

Register Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-006	Module Name: Register
Test Case	Expected Result
Check The response on not entering more and less than the required limit number	Register Should Fail

Table 37: Register test case of CWAFCs

Register Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-007	Module Name: Register
Test Case	Expected Result
Check The response on not entering more and less than the required limit number	Register Should Fail

Table 38: Register test case of CWAFCs

Register Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-008	Module Name: Register
Test Case	Expected Result
Check The response on not entering more and less than the required limit number	Register Should Fail

Table 39: Register test case of CWAFCFS

Register Test Case of CWAFCFS

Project Name: Child Welfare and foster care	
Test Case Id: CW-009	Module Name: Register
Test Case	Expected Result
Check The response on not entering more and less than the required limit number	Register Should Fail

Table 40: Register test case of CWAFCFS

Register Test Case of CWAFCFS

Project Name: Child Welfare and foster care	
Test Case Id: CW-010	Module Name: Register
Test Case	Expected Result
Check The response on not entering more and less than the required limit number	Register Should Fail

Table 41: Register test case of CWAFCFS

Register Test Case of CWAFCFS

Project Name: Child Welfare and foster care	
Test Case Id: CW-011	Module Name: Register
Test Case	Expected Result
Check The response on not entering more and less than the required limit number	Register Should Fail

Table 42: Register test case of CWAFCs

Register Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-012	Module Name: Register
Test Case	Expected Result
Check The response on not entering more and less than the required limit number	Register Should Fail

Table 43: Register test case of CWAFCs

Register Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-013	Module Name: Register
Test Case	Expected Result
Check The response on not entering more and less than the required limit number	Register Should Fail

Table 44: Add Adoption Test Case of CWAFCs

Add Adoption Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-014	Module Name: Add Adoption
Test Case	Expected Result
Check The response on entering valid data in all the input fields	The Data should be stored in the database successfully

Table 45: Add adoption test case of CWAFCs

Add Adoption Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-015	Module Name: Add Adoption
Test Case	Expected Result
Check The response on not entering valid data in all the input fields	The Data should not be stored in the database successfully

Table 46: Add adoption test case of CWAFCs

Add Adoption Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-016	Module Name: Add Adoption
Test Case	Expected Result
Check The response on not entering valid data in all the input fields	The Data should not be stored in the database successfully

Table 47: Add dept. worker Test Case of CWAFCs

Add dept. worker Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-017	Module Name: Add Adoption
Test Case	Expected Result
Check The response on not entering valid data in all the input fields	The Data should not be stored in the database successfully

Table 48: Add dept. Worker Test Case of CWAFCs

Add dept. worker Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-018	Module Name: Add dept. worker
Test Case	Expected Result
Check The response on not entering valid data in all the input fields	The Data should be stored in the database successfully

Table 49: Add dept. worker test Case of CWAFCs

Add dept. worker Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-019	Module Name: Add dept. worker
Test Case	Expected Result
Check The response on not entering valid data in all the input fields	The Data should not be stored in the database successfully

Table 50: Add dept. Worker Test Case of CWAFCs

Add dept. worker Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-020	Module Name: Add dept. worker
Test Case	Expected Result
Check The response on not entering valid data in all the name fields	The Data should not be stored in the database successfully

Table 51: Add dept. Worker test case of CWAFCs

Add dept. worker Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-021	Module Name: Add dept. worker
Test Case	Expected Result
Check The response on not entering valid data in name fields	The Data should not be stored in the database successfully

Table 52: Add dept. Worker test case of CWAFCs

Add dept. worker Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-022	Module Name: Add dept. worker
Test Case	Expected Result
Check The response on not entering valid data in email fields	The Data should not be stored in the database successfully

Table 53: Add dept. Worker test case of CWAFCs

Add dept. worker Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-023	Module Name: Add dept. worker
Test Case	Expected Result
Check The response on not entering valid data in passport fields	The Data should not be stored in the database successfully

Table 54: Add dept. Worker test case of CWAFCs

Add dept. worker Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-024	Module Name: Add dept. worker
Test Case	Expected Result
Check The response on not entering valid data in passport number fields	The Data should not be stored in the database successfully

Table 55: Add dept. Worker test case of CWAFCs

Add dept. worker Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-025	Module Name: Add dept. worker
Test Case	Expected Result
Check The response on not entering valid data in phone number fields	The Data should not be stored in the database successfully

Table 56: add dept. Worker test case of CWAFCs

Add dept. worker Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-026	Module Name: Add dept. worker
Test Case	Expected Result
Check The response on not entering valid data in gender fields	The Data should not be stored in the database successfully

Table 57: Add dept. Worker test case of CWAFCs

Add dept. worker Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-027	Module Name: Add dept. worker
Test Case	Expected Result
Check The response on not entering valid data in branch fields	The Data should not be stored in the database successfully

Table 58: Add branch test Case of CWAFCs

Add Branch Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-028	Module Name: Add Branch
Test Case	Expected Result
Check The response on entering the valid data in all input fields	The Data should be stored in the database successfully

Table 59: Add branch test case of CWAFCs

Add Branch Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-029	Module Name: Add Branch
Test Case	Expected Result
Check The response on not entering the valid data in all input fields	The Data should not be stored in the database successfully

Table 60: Add branch test case of CWAFCs

Add Branch Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-030	Module Name: Add Branch
Test Case	Expected Result
Check The response on not entering the valid data in branch no. fields	The Data should not be stored in the database successfully

Table 61: Add branch test case of CWAFCs

Add Branch Test Case of CWAFCs

Project Name: Child Welfare and foster care	
Test Case Id: CW-031	Module Name: Add Branch
Test Case	Expected Result
Check The response on not entering the valid data in branch no. fields	The Data should not be stored in the database successfully

6.4.2 Test Data

Realistic or synthetic knowledge is the test guide to achieve the desire results in accordance with the test design. Test results are examined, reviewed, and confirmed using the existing evidence of the test subject. The test data is verified. The test results within each test case are presented.

Table 62: Test data of CWAFCs

Test Data of CWAFCs

Test Case Id	Test Data
CW-001	Email: karamshath3@gmail.com Password:12345
CW-002	Email: karamshath3@gmail.com Password:12345
CW-003	Email: karamshath3@gmail.com Password:12345

CW-004	Email: karamshath3@gmail.com Password:12345
CW-005	Full Name: Amir Aslam Email: amiraslam3@gmail.com Password:12345 Phone Number: 018345687 Select Gender: Male
CW-006	Full Name: Amir Aslam Email: amiraslam3@gmail.com Password:12345 Phone Number: 018345687 Select Gender: Male
CW-007	Full Name: Amir Aslam Email: amiraslam3@gmail.com Password:12345 Phone Number: 018345687 Select Gender: Male
CW-008	Full Name: Amir Aslam Email: amiraslam3@gmail.com Password:12345 Phone Number: 018345687 Select Gender: Male
CW-009	Full Name: Amir Aslam Email: amiraslam3@gmail.com Password:12345 Phone Number: 018345687 Select Gender: Male
CW-010	Full Name: Amir Aslam Email: amiraslam3@gmail.com Password:12345 Phone Number: 018345687 Select Gender: Male
CW-011	Full Name: Amir Aslam Email: amiraslam3@gmail.com Password:12345 Phone Number: 018345687 Select Gender: Male
CW-012	Full Name: Amir Aslam Email: amiraslam3@gmail.com Password:12345 Phone Number: 018345687 Select Gender: Male
CW-013	Child's Name: Emir Elvi Child's Registration Number: 1211 Gender: Male Child's Picture: 1211.jpeg Issue Date:2019-01-14 Adopter's Name: Kerim
CW-014	Child's Name: Emir Elvi Child's Registration Number: 1211 Gender: Male Child's Picture: 1211.jpeg Issue Date:2019-01-14 Adopter's Name: Kerim

CW-015	Child's Name: Emir Elvi Child's Registration Number: 1211 Gender: Male Child's Picture: 1211.jpeg Issue Date:2019-01-14 Adopter's Name: Kerim
CW-016	Child's Name: Emir Elvi Child's Registration Number: 1211 Gender: Male Child's Picture: 1211.jpeg Issue Date:2019-01-14 Adopter's Name: Kerim
CW-017	Child's Name: Emir Elvi Child's Registration Number: 1211 Gender: Male Child's Picture: 1211.jpeg Issue Date:2019-01-14 Adopter's Name: Kerim
CW-018	Full Name: Ali Emad Email: aliemad3@gmail.com Passport Number: 654321 Phone Number: 018345687 Select Gender: Male Branch: Branch 1
CW-019	Full Name: Ali Emad Email: aliemad3@gmail.com Passport Number: 654321 Phone Number: 018345687 Select Gender: Male Branch: Branch 1
CW-020	Full Name: Ali Emad Email: aliemad3@gmail.com Passport Number: 654321 Phone Number: 018345687 Select Gender: Male Branch: Branch 1
CW-021	Full Name: Ali Emad Email: aliemad3@gmail.com Passport Number: 654321 Phone Number: 018345687 Select Gender: Male Branch: Branch 1
CW-022	Full Name: Ali Emad Email: aliemad3@gmail.com Passport Number: 654321 Phone Number: 018345687 Select Gender: Male Branch: Branch 1
CW-023	Full Name: Ali Emad Email: aliemad3@gmail.com Passport Number: 654321 Phone Number: 018345687 Select Gender: Male Branch: Branch 1

CW-024	Full Name: Ali Emad Email: aliemad3@gmail.com Passport Number: 654321 Phone Number: 018345687 Select Gender: Male Branch: Branch 1
CW-025	Full Name: Ali Emad Email: aliemad3@gmail.com Passport Number: 654321 Phone Number: 018345687 Select Gender: Male Branch: Branch 1
CW-026	Full Name: Ali Emad Email: aliemad3@gmail.com Passport Number: 654321 Phone Number: 018345687 Select Gender: Male Branch: Branch 1
CW-027	Full Name: Ali Emad Email: aliemad3@gmail.com Passport Number: 654321 Phone Number: 018345687 Select Gender: Male Branch: Branch 1
CW-028	Branch: Branch 3 Branch Location: Bukit Bintang
CW-029	Branch: Branch 3 Branch Location: Bukit Bintang
CW-030	Branch: Branch 3 Branch Location: Bukit Bintang
CW-031	Branch: Branch 3 Branch Location: Bukit Bintang

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6.5 Test Results and Analysis

The key focus of this chapter is on research. For the detection of errors, each single test is significant. The unpredictable situation was corrected, and the reliability of the system ensured. This system test is intended to enable the developer to build a successful system for the general system. In addition, checking also increases device consistency in the absence of defect and problems.

Table 63: test results and analysis of CWAFCs

Test Results and Analysis of CWAFCs

Test Case Id	Tester Id	Results	Satisfaction(1-5)
AP-001	T001	Success	5
CW-002	T001	Success	5
CW-003	T001	Success	5

CW-004	T001	Success	4
CW-005	T001	Success	5
CW-006	T001	Success	5
CW-007	T001	Success	5
CW-008	T001	Success	5
CW-009	T001	Success	5
CW-010	T001	Success	5
CW-011	T001	Success	5
CW-012	T001	Success	5
CW-013	T001	Success	5
CW-014	T002	Success	5
CW-015	T002	Success	5
CW-016	T002	Success	5
CW-017	T002	Success	4
CW-018	T002	Success	5
CW-019	T002	Success	5
CW-020	T002	Success	4
CW-021	T002	Success	5
CW-022	T002	Success	5
CW-023	T002	Success	5
CW-024	T002	Success	5
CW-025	T002	Success	4
CW-026	T002	Success	5
CW-027	T002	Success	5
CW-028	T002	Success	5
CW-029	T002	Success	5
CW-030	T002	Success	5
CW-031	T002	Success	5

6.6 Conclusion

The key focus of this chapter is on research. For the detection of errors, each single test is significant. The unpredictable situation was corrected, and the reliability of the system ensured. This system test is intended to enable the developer to build a successful system for the genera6 system. In addition, checking also increases device consistency in the absence of defect and problems.



CHAPTER VII PROJECT CONCLUSION

7.1 Observation on weakness and strengths

In this portion, the strengths and weakness of this system are listed. Any system developed must have strengths and weaknesses. System weaknesses can be improved in future improvement.

7.1.1 System strengths

Using this system helps in monitoring all transmission that take place on a regular basis remembering all clients, administrations, child, adoptions, etc. It controls all operations around the store that improve efficiency and improve income because the system reduces the risk of failure because all transactions in the system are reported and verified, if necessary, and all business reports can be viewed at any time needed to be done. The ability to display the product image, display alternatives, display child's description descriptions, display adopter and adoptions, and print receipt, which saves time and effort.

7.1.2 System weaknesses

The weaknesses of Child Welfare and Foster Care System (CWFACS) are no notification service in administration side after the adopter adopts any child, there is no delivery service for the adopter, and there is not another method.

7.2 propositions for improvement

There are some improvements from the weakness of this system that can be used in the future.

Firstly, the notification service must be implemented in the system because when an adopter adopts a child, the administrator will be able to check the child information before the adopter arrives. This will make it easier for the administrator to ensure everything.

7.3 Project contribution

As a guide for improving this project, the established system will help in the creation of child welfares. This system allows adopter to position the child they want wherever, at a certain time, since Child Welfare and Foster Care System (CWAFCs) is home to many industries. This system helps administration to administer every information. It also assists the manager in managing the child and department information.

7.4 Conclusion

In conclusion, this system is almost achieving goals and scope and still needs improvement to get the tasks done. It takes extra time and effort to make Child Welfare and Foster Care System (CWAFCs) a real framework that can be used by all user levels and effectively accomplish the goal. To satisfy the needs of child welfare requirements and to explore technological advancement. Child Welfare and Foster Care System (CWAFCs) will be improved from period to period.



REFERENCES

1. Brandon, M. Bailey, S. Belderson, P. (2010), *Building on the learning from serious case reviews: A two-year analysis of child protection database notifications 2007–2009*, London, Department for Education, Research Report (available online at <https://www.education.gov.uk/publications/standard/publicationDetail/Page1/DFE-RR040>)
2. The Lord Laming, (2009), *The Protection of Children in England: A Progress Report*, London, The Stationery Office (available online at <https://www.education.gov.uk/publications/standard/publicationdetail/page1/HC%20330>)
3. Munro, E. (2010), *Part One: A System's Analysis*, London, Department for Education (available online at <http://www.education.gov.uk/munroreview/>)
4. Munro, E. (2011), *The Munro Review of Child Protection Interim Report: The Child's Journey*, London, Department for Education (available online at (<http://www.education.gov.uk/munroreview/>))
5. Department of Health & Social Security, (1982), *Child Abuse: A Study of Inquiry Reports*, London, HMSO; Reder, P. & Duncan, S. (1999), *Lost Innocents; A follow-up study of fatal child abuse*, London, Routledge; Brandon, M., et al. (2010), *Building on the learning from Serious Case Reviews: a two year analysis of child protection database notifications 2007 – 2009*, London, Department for Education (available online at <https://www.education.gov.uk/publications/standard/publicationdetail/page1/DFE-RR040>)
6. The Social Work Task Force, (2010), *Building a safe, confident future – The final report of the Social Work Task Force*, London, Department for Education. (available online at <https://www.education.gov.uk/publications/standard/publicationdetail/page1/DCSF-01114-2009>)
7. The Lord Laming, (2009), *The Protection of Children in England: A Progress Report*, London, The Stationery Office. (available online at <https://www.education.gov.uk/publications/standard/publicationdetail/page1/HC%20330>).
8. Forrester, J.W. (1968), *Principles of Systems*, Cambridge, Mass Wright-Allen Press.
9. Woods, D. et al. (2010), *Behind Human Error*, 2nd Edition, Farnham, Ashgate; Vincent, C. (2006), *Patient Safety*. Edinburgh, Elsevier.

Appendix:

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Child Welfare and Foster Care System | Home | Login / Register

Login in to Admin Console

Login in as: Department Worker

saed

*

Login >

Dashboard

Subscriptions	id	Child	Status	Options	Application	Upload Application
Adoptions	13	SALAHUHDIN Ayselwi	Approved	Cancel	Download	Choose File No file chosen Upload
Children	14	Salem Saad	Approved	Cancel	Download	Choose File No file chosen Upload
My Profile	15	Majed Majed	Approved	Cancel	Download	Choose File No file chosen Upload
Logout	16	Att Ahmed	Approved	Cancel	Download	Choose File No file chosen Upload



Hanesha Clara Faith
2018-05-10



Ali Abdo Ahmed
2021-06-24



Khalid Ali Ali
2021-06-22



Ahmed ss sda
2021-06-16



Samer dde Khalid
2021-06-25



Ali dadsaer Ahmed
2021-06-30



[← Back to the children.](#)

Hanesha Clara Faith



About:
You need to be approved first

Short Brief:
she is humble and cute child , her parents passed away in a car accident and she's the only survivor

Date of Birth: 2018-05-10
Id no: 10
Updated: 2018-05-09
Gender: 2
nationality: palestinian

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Understanding the Child adoption process