NEBULA A-Z: AN ACTION-PUZZLE GAME WITH ALPHABET AS INPUT MECHANISM



NEBULA A-Z: AN ACTION-PUZZLE GAME WITH ALPHABET AS INPUT MECHANISM



This report is submitted in partial fulfillment of the requirement for the Bachelor of Information Technology (Game Technology)

BORANG PENGESAHAN STATUS TESIS

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DECLARATION

I hereby declare that this project report entitled

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



I hereby declare that I have read this project report and found this project is sufficient in term of the scope and quality for the award of Bachelor of Information Technology (Game Technology) With Honours.

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ABSTRACT

Nebula A-Z is a 2D action-puzzle game that is developed for Windows PC. Using C# in Unity framework, this game is targeting on audience from 7 to 12 years old. The purpose of this game is to challenge players with their familiarity in using keyboard as the game input and to share knowledge about terms regarding to outer space in alphabetical order. Each alphabet being typed will gain a point and player has five lives to protect in order not to lose the game. Player will win the game if they get to beat the previous high score achieved. This game is inspired from three on-market games named Ztype, The Typing of the Dead and Ninja Cat & Zombie Dinosaurs which all are implementing the typing mechanism as the input channel. The same input channel will be developed in this game with a pool of words focusing only on the theme of Outer Space. The methodology used for the creation of this game is Agile Development Process. The objectives of this game are to investigate the input mechanism of existing typing games such as ZType, Typing of the Dead and Ninja Cat & Zombie Dinosaurs, to develop a game that can introduce the specific terms regarding to Outer Space that are represented through the alphabets of the keyboard and to test the playability of keyboard as the main input device for shooting in this action-puzzle game. The outcome of this project is a complete playable prototype of Nebula A-Z.

ABSTRAK

Nebula A-Z adalah permainan aksi dan puzzle 2D yang dibangunkan untuk PC Windows. Dengan menggunakan rangka kerja Unity, permainan ini mengfokuskan pembangunan untuk kanak-kanak berusia 7 ke 12 tahun. Tujuan utama permainan ini ialah untuk mencabar pemain akan kebiasaan mereka menggunakan papan kekunci sebagai input permainan dan juga untuk berkongsi pengetahuan berkenaan perkataan-perkataan yang berkaitan dengan ruang angkasa mengikut susunan abjad. Setiap perkataan yang ditaip akan mendapat satu markah dan pemain mempunyai lima nyawa yang perlu dipertahankan untuk tidak kalah permainan ini. Pemain akan memenangi permainan ini jika dapat mengalahkan jumlah markah tertinggi pada pusingan sebelumnya. Permainan ini adalah inspirasi daripada tiga permainan sedia ada di pasaran berjudul Ztype, The Typing of the Dead dan Ninja Cat & Zombie Dinosaurs di mana ketiga-tiga permainan ini menggunkan kaedah menaip sebagai saluran input. Saluran input yang sama akan digunakan dalam pembangunan permainan ini dengan penggunaan perkataan yang berfokus pada tema angkasa lepas. Metodologi yang digunakan dalam pembinaan permainan ini ialah Proses Pembangunan Agile. Objektif projek ini termasuklah untuk mengkaji mekanism input yang terdapat dalam permainan sedia ada seperti ZType, Typing of the Dead dan Ninja Cat & Zombie Dinosaurs, untuk membangunkan satu permainan yang boleh memperkenalkan perkataan-perkataan berkaitan angkasa lepas yang akan diwakili oleh huruf abjad pada papan kekunci dan untuk menilai tahap kebolehan bermain dengan menggunakan papan kekunci sebagai alat input dalam permainan ini. Hasilnya ialah permainan Nebula A-Z yang berfungsi secara menyeluruh.

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CHAPTER I



1.1 Project Background

Nebula A-Z is an action-puzzle game created to challenge players with their familiarity in using keyboard as the game input and to share knowledge about terms regarding to outer space in alphabetical order. It is written in C# programming language using Unity as the game renderer. The target audience of this game are players within the age of 7 to 12 years old. With outer space as the main theme, this game introduce a collection of words that can add to players' vocabulary in learning the terms in the galaxy.

The aim of this game is to shoot every single alphabet that drops down before it reaches the bottom of the scene in order to gain score if it is played under the 'PLAY' mode. Nebula A-Z consists of two main modes which are named 'PLAY' and 'LEARN' respectively. Under the 'LEARN' mode, the alphabets that will be typed out by player using the keyboard will display a word paired with a small picture focusing around the theme of Outer Space. Example of words such as Galaxy, Constellation, Solstice, and Eclipse will represent the alphabet shoots by the players (Eg. A stands for Asteroid). Meanwhile, under the 'PLAY' mode, every alphabet being shot will bring a point to the player and the more alphabets being shot, the higher the player would gain the total score. This game progresses endlessly with the alphabets continuously spawning faster and faster until players have missed the shoot 5 times and only then the game would be over in said mode. The winning condition of this game is when player would get to beat the high score from previous session. The losing condition of this game is when player has lost all the minimum 5



1.2 Problem Statement

NIVERSITI TEKNIKAL MALAYSIA MELAKA

Children from age 7 to 12 already have the typing skill since their early exposure to IT devices nowadays. Yet are they familiar with the position of alphabets on the computer keyboard and do they have a vast alphabetical vocabularies especially in any certain topic? Thus, this game is created to test players' ability in typing out the alphabets as the main input mechanism since it could train them familiarising themselves with the alphabet order upon the keyboard through the 'PLAY' mode and broaden their vocabulary especially the terms regarding to outer space in the 'LEARN' mode. Some people love the adventure of the galaxy, but few have the knowledge about the outer space, let alone all the general terms used to describe the universe. Therefore, it brings to the creation of this action-puzzle game named Nebula A-Z.

1.3 Objective

This project is based on the following objectives:

- a) To investigate the input mechanism of existing typing games such as ZType,
 Typing of the Dead and Ninja Cat & Zombie Dinosaurs.
- b) To develop a game that can introduce the specific terms regarding to Outer Space that are represented through the alphabets of the keyboard.
- c) To test the playability of keyboard as the main input device for shooting in this action-puzzle game.



The main goal of this game is educational since it is created to assist players broaden their vocabulary about the terms of Outer Space. With better understanding about the galaxy, players are expected to have greater interest in learning about Science since it is one of the prominent subjects introduced even at the earliest level of education. The selected genre of the game is action-puzzle game.

1.5 Game Features

The target players for this game are students in primary school who are at the early stage of learning and understanding the Science subject.

The general game rules:

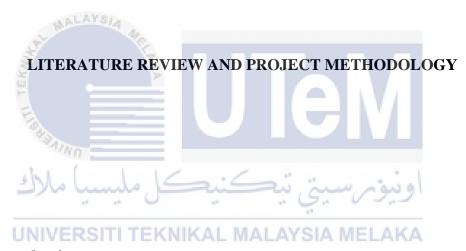
- 1. Player has to choose 'PLAY' to practice their familiarity of using keyboard as the game input under the game mode while choose 'LEARN' to discover new vocabularies regarding to Outer Space.
- 2. Under 'PLAY', player needs to shoot the dropping alphabets by typing them out upon the keyboard.
- 3. Player has to shoot the alphabets before they reach the bottom of the screen to gain a point.
- 4. Player needs to shoot as many as they can as the spawning alphabets drop faster and faster.
- 5. Player has to be aware not to miss more than 5 levels of the live meter to not lose the game.
- 6. Player needs to beat the previous high score to completely win the game.
- 7. Under 'LEARN', player simply needs to type out the falling alphabets to learn new words about Outer Space represented by each single alphabet. (Extype A, a picture and word of 'ASTEROID' will appear.)
- 8. Learn as many words as the player would want as it is endless.

1.6 Conclusion

The main output of this project is the implementation of alphabets A to Z from keyboard as the input in this game is successful while also getting to represent those alphabets with terms of the Outer Space to broaden the knowledge of players in that field through the learning mode. In overall, this chapter covered on the background of this project, the problem statement that has brought to the creation of this game, the objectives set to be achieved by the end of the development, the goals and genre of the game, some game features and the general rules on navigating the gameplay. Next in Chapter II, the literature review upon this project will be discussed alongside with the methodology chosen to organize the implementation of Nebula



CHAPTER II

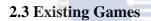


2.1 Introduction

This chapter will discuss on comparison of features in the existing games through three major categories that firstly is Shooting games, secondly is Typing games and thirdly is Shooting and Typing games. Besides, the discussion will also include the advantages and disadvantages of implementing keyboard typing as the input mechanism in the games especially in context of shooting games. The games selected for comparison vary according to the categories and will be stated in the tables below. The methodology used for the game implementation is Agile Development Process.

2.2 Genre

The genre selected in this game is the hybrid of action and puzzle game. Action game in general requires the hand-eye coordination which in this case, the hands are used to type out the falling alphabets while simultaneously using the eye focus to detect the next falling alphabet and read the word appears to represent each alphabet. The puzzle genre according to Earnest Adams (2013), puzzle solving is the primary activity, though puzzles may occur within a storyline or lead up to some larger goals. Together, it built up this game both to have a goal in winning the game and challenge the players' coordination strength in typing on the keyboard.





The implementation of this game is combining both shooting the alphabets as player input and typing upon the keyboard to get the action of shooting done. Thus, there are three existing games that used this combination of shooting and typing to create a complete game. The comparison of these games are shown below:

Table 2.1: Comparison of shooting and typing games

| Game | ZType | The Typing of the | Ninja Cat and |
|-----------|---|--|--|
| Title | | Dead | Zombie Dinosaurs |
| | TYPING HTML GAME AREATO SOUTH STATEMENT AND SOUTH PROPERTY STATEMENT AND SOUTH PROPERTY SOUTH SECURITY STATEMENT SOUTH SECURITY SOUTH SECURITY SECURITY SOUTH SECURITY SECURITY SOUTH SECURITY | PRESS ENTER KEY DESCRIPTION SECONO CONTRACTION SECONO CONTRACTION SECONO CONTRACTION SECONO CONTRACTION SECONO CONTRACTION SECONO CONTRACTION SECONO SECONO CONTRACTION SECONO SECON | ZOMBIE DINOSAURS START CETIONS GEBUIS |
| Platform | Online web game | Playstation, windows, | Online web game |
| | | dreamcast, arcade | |
| Game Play | -Player needs to | -Player has to kill | -Player as the ninja |
| | shoot the enemies | zombies by typing out | cat has to type each |
| | coming from | words or phrases to | alphabet that |
| KW | above. | shoot them. | appeared with the |
| | -Player needs to | -Player has to save | enemies such as |
| | type a word | citizen in the | dragons to kill them. |
| | attached to every | apocalypse town to | -Player needs to go |
| للاك | enemy to gain | collect clues for further | as far as they can |
| | score. | mission. | along the journey to |
| UNIV | -Player has to | -Player has to complete | reach the main boss, |
| | complete typing | all missions to further | a zombie dinosaur. |
| | every single word | the level. | -Player gains extra |
| | to proceed to the | the level. | live for their health |
| | next wave. | -Player will completely | bar by typing longer |
| | | win the game if all the | words on flying |
| | | zombies in the town | stars. |
| | | died and all the citizens are saved. | -Player will win if |
| | | are saved. | they get to defeat the |
| | | | zombie dinosaur and |
| | | | the smaller enemies |
| | | | to save the entire |
| | | | to save the churc |

| | | | city, Paris. |
|-----------------|-----------------|-----------------|-----------------|
| Graphic | 2D graphic | 3D graphic | 2D graphic |
| Interactio n | Keyboard typing | Keyboard typing | Keyboard typing |

2.3.1 Comparison of Existing Games

The next comparisons are focusing upon the existing Typing games and Shooting games separately in order to achieve the first objective of this game that is to study the features and mechanism used by these games in implementing typing as player input. There is also a comparison upon the advantages and disadvantages of making the player input through keyboard typing.

Table 2.2: Comparison of shooting games

| Game Title | Gradius | Ikaruga | Thunder Blade |
|------------|--|---|--------------------------|
| UNIVER | TOTAL STATE OF THE | NACH THE PROPERTY OF THE PROP | Mente SEGA Thunder Blade |
| Platform | Windows, | Xbox 360, | arcade, amiga, dos, |
| | arcade, dreamcast | gamecube, arcade, | msx, sega master |
| | | windows, | system, turbografx- |
| | | dreamcast | 16, sharp x68000, zx |

| | | | spectrum, nintendo |
|-----------|--------------------|----------------------|-----------------------|
| | | | 3ds, amstrad cpc, |
| | | | atari st, commodore |
| | | | 64 |
| Game Play | -Player battles | -Player as the | -Player controls a |
| Game Tiay | waves of enemies | Ikaruga fighter, | helicopter to shoot |
| | through varies | avoids obstacles | the enemies. |
| | environments. | by changing | the chemics. |
| | chynomichts. | polarity of their | -Player uses guns and |
| | -Player has to | ship between black | missiles to destroy |
| | combat against a | and white. | enemy tanks, |
| | giant craft placed | and winte. | helicopters and other |
| | on one to several | -Player absorbs | military weapons to |
| AL MALA | blue colored | white bullets fired | save his country. |
| | spheres that | by enemies and | -Player has to reach |
| = | formed a passage | stores them as | to the boss level to |
| E | from the exterior | power for special | entirely win the |
| MAINI | of the giant craft | attack. | game. |
| 1 1/12 | to one of the | -Player has to | guine. |
| یا شارک | space cores. | avoid being hit by | -Player will lose if |
| UNIVERS | -Player shoots | black bullets if the | they hit any of the |
| | into the passage | ship is white or it | enemies' combat |
| | while avoiding | will be destroyed. | weapons. |
| | attack patterns | · | |
| | from the body of | -Player has to | |
| | the giant craft. | destroy the enemy | |
| | C | with same polarity | |
| | -Player gains | as the player to | |
| | greater | gain energy for the | |
| | capabilities by | ship and attack | |
| | collecting and | with twice the | |
| | using power-up | damage towards | |
| | items. | the enemy. | |
| | | | |

| Graphic | 2D graphic | 3D graphic | 2D and 3D graphic |
|-------------|--------------|------------|-------------------|
| Interaction | Arcade | Gamepad, | Joystick, gamepad |
| | controller: | keyboard | |
| | joystick and | controller | |
| | push-buttons | | |
| | | | |

Table 2.3: Comparison of typing games

| Game Title | Bookworm | Icarus Proudbottom | Drop |
|------------|--|--|---------------------|
| | Adventures | Teaches Typing | |
| THE WALA | CONTURED CON | IBARUS PROUIBUTOM Nov Green Paracocci | o P d |
| Platform | Windows | Online web game | Online web game |
| Game Play | -Player leads Lex | -Player works with | -Player has to type |
| | the Bookworm | Icarus Proudbottom | each alphabet that |
| | through a number | in his Holy Wow | is dropped down |
| | of stages to battle | Studio as a typist. | the hexagon hole. |
| | ancient creatures | | |
| | along the way to | -Player has to type | -Player needs to go |
| | save a princess | every sentences or | as far as he can |
| | named | short paragraph to | into the hole to |
| | Cassandra. | gain points. | gain more points. |
| | | | |
| | -Player types out | -Player has to avoid | -Player needs to |
| | and creates words | making errors while | reach certain point |
| | from the grid of | typing not more than | goal to unlock |