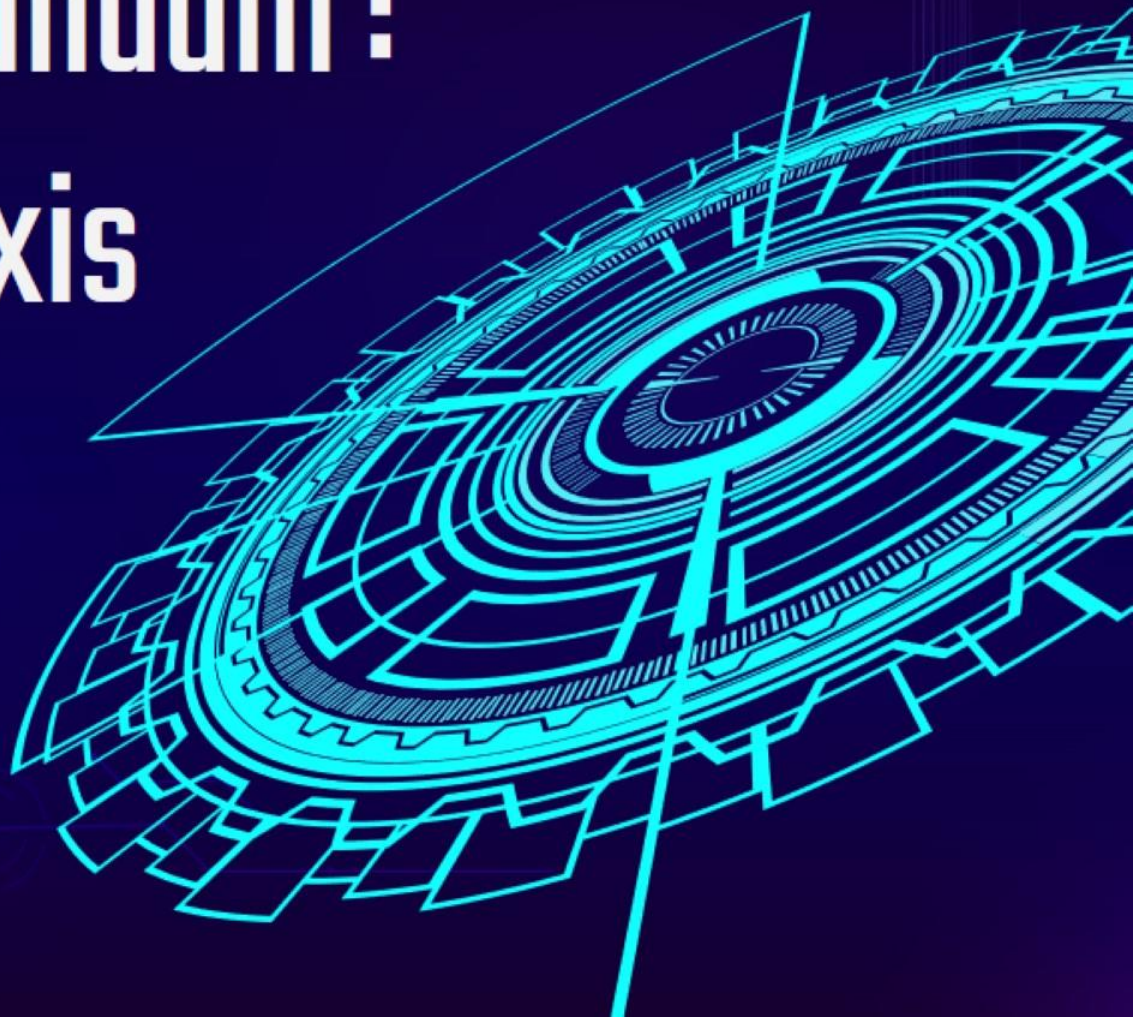


Mobile Suit Gundam : After Fall of Axis



Created by: Deadline Fighter

OUR TEAM



Brian Chan

Team leader
Programmer



Anson Wong

Game & Graphic Designer



Mark Li

Programmer



TABLE OF CONTENTS

01

Introduction

p4

02

Functional Feature

p14

03


Non-Functional Feature

p23

04

Development

p27



INTRODUCTION

Our Objective

2D soul like shooter game

Extremely challenging gameplay experience

Aim to entertainment hardcore player

Restore abilities and limitations of classic giant robots

Anti-war reflection through story

Main Character

Pilot

Name: Sousuke Sagara

Provenance: Full Metal Panic series (1998)

Organization: Mithril

Call sign: urzu

Rank: sergeant



Machine

Name: Arx-7 Arbalest

Provenance: Full Metal Panic series (1998)

Height: 15.2 meters

Other: Lambda Driver



Equipment

Fixed armament:

12.7mm Chain Gun



Anti-tank Dagger (throwable)



GRAW-2 Monomolecular Cutter



Optional armament:

"Boxer" 57mm Shotcannon



ASG96-B 57mm smoothbore gun



40mm submachine gun



Lambda Driver activated (special mode)

Shotcannon become chargeable for shield piercing



Melee attack chargeable for special attack (re
ammo)



Auto-react energy shield



(The above functions increases player's temperature)

Enemy

Name : F91 Gundam (mass production type)

Provenance: Mobile Suit Gundam F91 (1991)

Height: 15.2 meters

Organization: local defense forces

Armament: Beam Rifle

Variable Speed Beam Rifle (shield piercing)

Beam Shield



Boss

Name : Gunbuster

Provenance: Gunbuster (1988)

Height: 34 meters

Organization: none

Armament: Laser

Missile

Electrical collider





Functional Features

Functional features

- 1.Player Controller
- 2.Story
- 3.Health Point system
- 4.Temperature system
- 5.Weapon selection system
- 6.Weighting system
- 7.Boss fight

Functional features

Player Control

Player will control the main character, Arx-7.



Functional features

Story

Slides will be shown automatically after clicking the start button
The player can also skip the current slide manually by clicking the left mouse click



Functional features

Health Point System

HP(Health Point) will be not displayed in game

HP will decrease when the character is hit by projectile, such as bullet, and turn the character in red as a sign that HP has been decreased

Enemy disappear when it's HP equal or below zero

If the player's HP reaches zero, then the game will show the death screen and return to the game title

Functional features

Temperature System

Player's temperature will be displayed on the top left corner in the game

The temperature will increase when the player is in special mode and hit by the enemy

Once it reaches the maximum temperature value, it will overheat, and the player cannot control for a few seconds as a penalty

Temperature will decrease when the player is stop moving

Boss has the same feature as the player

Functional features

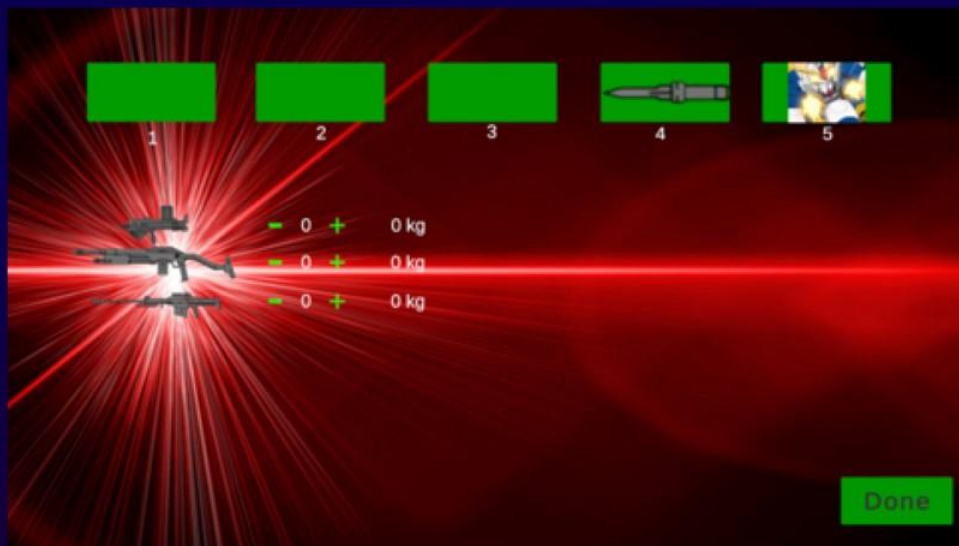
Temperature System



Functional features

Weapon Selection System

Player will select weapons after reading the game background story



Functional features

Weapon List

Chain gun and dagger are default weapon, player still have three extra weapon options to choose, every weapon has different damage and weight



Functional features

Weighting System

The weighting will affect the player's movement speed

When the player select more weapon and ammo into the battle, the weight of the player will increase accordingly

The player can also reduce the weight by using the ammo

Weighting will show below the temperature bar



Functional features

Boss fight

Skill: 2 types of laser
Super inazuma kick
Grabbing
Buster missile (trackable)

The boss will attack with a second cool down





Non-Functional Features

Non-Functional Features

1. Frames rate
2. Usability
3. Response time
4. Required resources
5. Platform
6. Loading

Non-Functional Features

1. Frames rate

addressable , 60fps as default for satisfying most desktop users

2. Usability

keyboard only , addressable control keys in setting

3. Response time

keep player response time below 10 milliseconds with intensive attack and combo.

Non-Functional Features

4.Required Resources

425 MB Hard Disk storage and 2048 MB RAM

5.Platform

64-bit Windows system

6.Loading

Least than ten seconds to load the whole game

The background is a solid dark blue. It features several abstract geometric elements: a series of white slanted lines in the top left corner; a large, faint white circle on the left side; a smaller white circle below it; a series of white lines forming a triangular shape on the bottom left; a series of white horizontal lines on the bottom right; and a grid of small white dots in the bottom right corner.

Development

Development

PROBLEM

- 1. New to Unity
- 1. New to painting software
- 1. Loss of drawings

Problem 1: New to Unity

As we are all new to unity, all the coding and editing need time to study. Also, the programming language using in unity is C#, which is also new to us. As the result, our project process is slow at the beginning.

Problem 2: New to painting software

As the designer is new to drawing software, practicing is needed for accustomation and improvements

Production is behind schedule

Limitation of drawing skill and unfamiliar with tablet


Could not produce some of planned features



Problem 3: Loss of drawings

Our team have lost many drawings include the body parts of the character, draft drawing due to our designer upgraded his computer without backup

It costed 1 month for recovery and redrawing all the missing frames and figures



1. Dividing human resource

1. Feature reduction

1. Cloud

SOLUTION

Solution 1: Dividing human resource

Using new development tool is the problem we facing at the beginning of project, so we divided our teammates into two groups.

One group study about controllable character, another group study about Non-player character.

Solution 2: Feature reduction

As we cannot meet the schedule we reduced some planned feature, such as removing the second controllable character, leaving only one character(Arx-7) for player to control and change the second character(F91) into enemy side.



Solution 3: Cloud

After the data loss mentioned before, we started to upload everything into Google cloud for preventing any extra lost of data again.

Reference

Characters and weapons: Arx-7 from *Full Metal Panic* (1998)
F91 from *Mobile Suit Gundam F91* (1991)
Gunbuster from *Gunbuster* (1988)

explosive animation from *Alex Redfish*

https://drive.google.com/drive/folders/1kHRGlmTKCoyKE_cBk7NGzv1C8iw4p50A

background: *Full Metal Panic* (1998)

mobilegamegraphics <https://mobilegamegraphics.com/>

sound effects: *Zapsplat* <https://www.zapsplat.com/>

Fesliyan Studio <https://www.fesliyanstudios.com/>

music: M9, Shissou from *Full Metal Panic* (1998)

Gunbuster march, Fly high from *Gunbuster* (1988)

Judau in space, main theme from *Gundam* series

bullet images: *Freepik* <https://www.freepik.com/free-vector>

Unity tutorial: *Brackeys* <https://www.youtube.com/user/Brackeys>

Code Monkey https://www.youtube.com/channel/UCFK6NCbuCIVzA6Yj1G_ZqCg

Unity API <https://docs.unity3d.com/ScriptReference/>

THANKS

Does anyone have any questions?

CREDITS

- ◀ Presentation template by [Slidesgo](#)
- ◀ Icons by [Flaticon](#)
- ◀ Infographics by [Freepik](#)
- ◀ Author introduction slide photo created by Freepik
- ◀ Text & Image slide photo created by Freepik.com



END