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Abstract

Documentation of the process of building our VR escape room, such as; challenges, research, development, build levels, work done by which member

INTEGRATED GROUP PROJECT IN COMPUTING

Documentation

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# Project Plan & Specifications:

## Game Concept:

The game will be a VR escape room aimed at KS3 (11 to 14 year olds) students studying computer science using unity (version 2018.3.6) for windows on the Vive VR set.

The player will have 1 hour to complete 4 puzzles to then create a piece of code that will unlock the door to the escape pod. Furthermore, they will have 8 minutes per room and if there is no progress within 3 minutes they will be given a hint to help to solve the problem.

We chose 1 hour as the game is in VR more than an hour in the headset can be too much and disorientate the player, research has also found that 2 hours is the absolute max. In addition, we chose 8 minutes per room as this will give the player enough time to then solve the final puzzle to get into the escape pod. The rooms can be done in any order though we will advise the user to complete them in order, each room will have a number above the door to indicate the order.

## Teaching Concepts:

We will be using scratch code blocks to teach key concepts of computer science coding. For the “assignment” version of the game we are focusing on building only 4 rooms due to the time constraint and skill level in regard to unity and VR. However, the full game would have a room to teach concept and a save / load function.

# Contingency Plan:

We are starting by making room 1 for VR, as none of us have any previous experience with Unity we are going to start with the first puzzle room to give an idea of the challenges and difficulty we are going to face during the development of this project. Furthermore, if this proves too much of a challenge for the time frame we have set and to be able to deliver a working VR escape room. Moreover, if the VR does prove to be too much of a challenge we are planning on falling back on simply making it a 2D escape room rather than 3D.

# Team Roles:

Ross:

3D assets & Room Design:

Responsible for creating 3D assets on Blender and assisting in designing the visual look of the game.

## Jack:

Programmer & sound effects:

Responsible for helping with programming and developing sound effects

## James:

Programmer;

Responsible for creating 3D assets on Blender and assisting in designing the visual look of the game.

## John:

Admin & room design:

Responsible for writing documentation and designing the visual look of the game

## Lesson plan:

### Room 1: Loops (iteration)

In scratch there are only “forever” and “repeat” loops that can be used to iterate through the program. Therefore, we will use these to introduce the concept of how loops are used to run through a certain code (command) a set amount of times or till a task is complete.

### Room2: Variables

In scratch variables are taught in a block format that allows the user to create variables that can then be used in a program; instead of the user having to manually declare them. The variables include strings and numbers.

We will use this style of teaching variables to the users as it is clear and concise and an excellent visual way of representing something rather basic in terms of coding but a fundamental. Furthermore, as the target audience is 11 to 14-year olds with no previous knowledge of coding it is essential the information is absorbed.

### Room 3: Sequence

A key concept of coding is that the code will run in a certain order and will execute in that certain task in that order. And without a strong foundation the person learning to code will be lost before they even begin.

### Room 4: Event handling

In terms of coding this would be when the user is prompted to input something or interact with the code in some way. Scratch teaches this through prompts such as “when a key is pressed” or “when the sprite is clicked” and we will use this to teach the user about how events / code can be triggered through these when they are coded into a program. And will be used towards the final block of code used to unlock the door.

## Final Code to Unlock Door:

## Testing:

We will test the game ourselves as we develop each room, James’s cousin will also test the game as he is the target audience.

## Group Meeting:

We chose Wednesday as the due date for most of our deliverables as this is when we are always able to meet up every week. Furthermore, we will also communicate on other days to come in and work together via discord

## Software being used:

* Unity version 2018.3.6 to develop the game.
* Vive VR as the platform on which it will be played.
* Discord server to communicate on dates we come in and progress.
* Github to track progress.

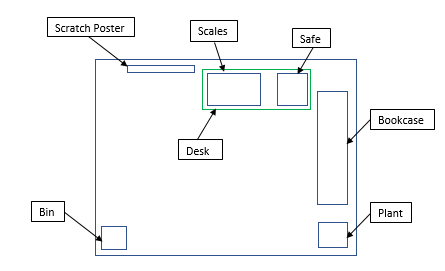
# Room Design:

## Room 1:

The room focuses on the player learning aspects of conditional scratch statements, which the user must then apply to puzzles in order to achieve the end goal of opening a safe, which holds part of a key piece required to escape the spaceship and thus complete the escape room.

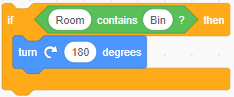
### Room Diagram:

Only need to include objects essential to the puzzle. If you want to include unessential objects, related to the aesthetic of the room, this could be mapped in a different colour:

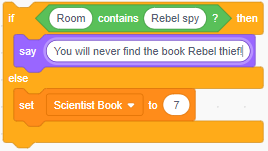


### List of steps to complete the room:

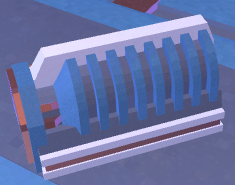
1. The player views the scratch poster, which summarises if statements. The last line of the poster shows an example of an if statement, which indicates that the player needs to check the bin for the next clue:



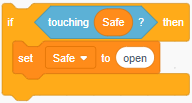
1. The bin contains a letter from a scientist which has escaped from the ship saying “Dear survivor, I have been noting the results of my experiments in a book. I have encrypted its whereabouts in scratch code to prevent rebel forces from finding it. The encryption can be found underneath the plant. Good luck.
2. Picking the plant up in the south-east corner of the room will reveal a block with the scientist’s encryption, instructing the player to open the book with the number 7 on it:



1. The player must then go to the bookcase, which has many books on it and pick up the book with the correct number on it (7). Only when the player picks up the correct book, will it open and show the player the next clue
2. The left page of then open book tells the player that the scientist has found a new source of power, which can be used to power light speed travel and that he’s left a generator in the room containing a small amount of it.



1. The right page of the book shows the scratch code:



1. The player has to place the generator on top of the safe. The safe will then open, revealing a puzzle piece to the player.
2. Room completed.

### Unity asset packs used:

Sci-fi styled modular pack:

[*https://assetstore.unity.com/packages/3d/environments/sci-fi/sci-fi-styled-modular-pack-82913*](https://assetstore.unity.com/packages/3d/environments/sci-fi/sci-fi-styled-modular-pack-82913)

Realistic furniture and interior props pack:

[*https://assetstore.unity.com/packages/3d/props/furniture/realistic-furniture-and-interior-props-pack-120379*](https://assetstore.unity.com/packages/3d/props/furniture/realistic-furniture-and-interior-props-pack-120379)

StarNestSkybox:

[*https://assetstore.unity.com/packages/vfx/shaders/star-nest-skybox-63726*](https://assetstore.unity.com/packages/vfx/shaders/star-nest-skybox-63726)

### Additional assets required (blender):

* Safe (closed)
* Safe (open)
* Puzzle piece
* Closed Books (can be the same model, but each needs a different number on their spine)
* Scratch poster (Jack will design)
* Open book (Jack will design)

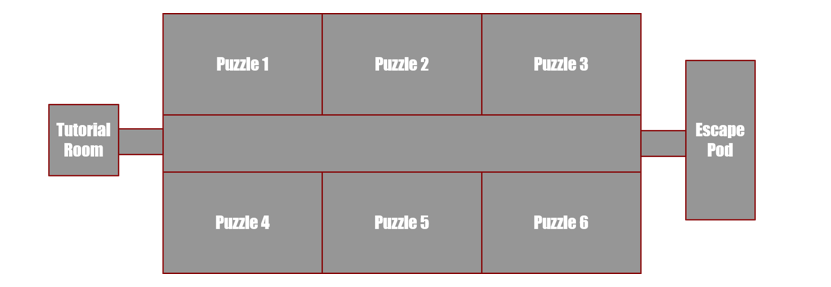
## Room 2:

## Room 3:

## Room 4:

## Escape Pod:

## Tutorial Room:



# Research:

Room Design:

Coding:

<http://scratched.gse.harvard.edu/sites/default/files/scratchprogrammingconcepts-v14.pdf>

## Puzzles:

**Black light;**

Difficulty 1) have the player turn on the black light to reveal a hidden code or pattern.

Difficulty 2) have the player search for a cable to attach to the black light then to the plug, to reveal the hidden code or pattern.

Code Difficulty 1) have the code display a 4 digit number for the lock, e.g. 1234.

Code Difficulty 2) have a code disguised as a pattern of lines representing the digits.

Code Difficulty 3) have a full wall covered in symbols and numbers, e.g. certain colour code.

Pattern Difficulty 1) pattern is displayed when the light comes on, e.g. a rectangle.

Pattern Difficulty 2) have the pattern hidden in scrambled lines, solution is a particular colour.

**Hidden items;**

Difficulty 1) have key cards or playing cards with numbers on them hidden for the player to find, colour will indicate the order, colour will be shown on keypad, e.g. green box around first digit.

Difficulty 2)

Hiding places) in boxes / under carpet / coat / inside a book / draw / behind a plug.

**Maze:**

Difficulty 1) have the player drag a pin along a maze into the hole.

Difficulty 2) player has a time limit to solve the maze.

Difficulty 3) the maze will move as the player moves the pin along the hole.

**Puzzle solutions:**

Hidden code = safe / phone / computer / padlock.

Hidden pattern = phone / tablet.

## Clue:

Glow in the dark clue.

Morse code.

Pressure plate.

# Use Cases:

## 

## Use Case 1:

**Use Case:**

 Player interacts with the environment and familiarises themselves with controls.

**Primary Actor:**

 Player

**Secondary actors:**

Game

**Goal:**

For the player to feel comfortable manoeuvring around the game and interacting with objects and the puzzle.

**Preconditions:**

The game has launched successfully without any errors and the “Vive” headset and controllers are working and connected.

**Success End Condition:**

The player has is comfortable with the environment and controls and begins attempting to solve the puzzles.

**Failed End Condition:**

The game does not launch, the headset or controllers do not connect the player gets motion sickness.

**Trigger:**

The controller or headset is not detected.

**MAIN SUCCESS SCENARIO**

1. A

**EXTENSIONS**

<put here the extensions, one at a time, each referring to the relevant step of the main scenario>

<step altered><condition>:<action>

## Use Case 2:

**Use Case:**

**Primary Actor:**

**Secondary actors:**

**Goal:**

**Preconditions:**

**Success End Condition:**

**Failed End Condition:**

**Trigger:**

**MAIN SUCCESS SCENARIO**

1. A

**EXTENSIONS**

<put here the extensions, one at a time, each referring to the relevant step of the main scenario>

<step altered><condition>:<action>

## Use Case 3:

**Use Case:**

**Primary Actor:**

**Secondary actors:**

**Goal:**

**Preconditions:**

**Success End Condition:**

**Failed End Condition:**

**Trigger:**

**MAIN SUCCESS SCENARIO**

1. A

**EXTENSIONS**

<put here the extensions, one at a time, each referring to the relevant step of the main scenario>

<step altered><condition>:<action>

# Use Case Modelling:

![A picture containing screenshot

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RB6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAEVm9zAIdpAAQAAAABAAAISpydAAEAAAAIAAAQauocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB6hwABwAACAwAAAhcAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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# Time Frame:

## Project Plan timeline:

|  |  |  |
| --- | --- | --- |
| **Goal** | **Deadline Date** | **Person Responsible for development** |
| Puzzle room 1 research | 13th March | John & Ross |
| Room 1 layout & textures | 13th March | Jack & James |
| Room 1 puzzle implemented | 20th March | John & James |
| Testing Room 1 | 21st March | Everyone |
| Puzzle room 2 research | 21st March |  |
| Room 2 layout & textures | 27th March |  |
| Room 2 puzzle implemented | 27th March |  |
| Testing Room 2 | 27th March |  |
| Puzzle room 3 research | 3rd April |  |
| Room 3layout & textures | 3rd April |  |
| Room 3 puzzle implemented | 3rd April |  |
| Testing Room 3 | 3rd April |  |
| Puzzle room 4 research | 10th April |  |
| Room 4 layout & textures | 17th April |  |
| Room 4 puzzle implemented | 24th April |  |
| Testing Room 4 | 24th April |  |
| Tutorial layout & textures | 1st May |  |
| Tutorial room testing | 8th May |  |
| Submission Date | 13th May | Susan |

# Challenges:

Ross:

### Challenges encountered:

## Jack:

### Challenges encountered:

## James:

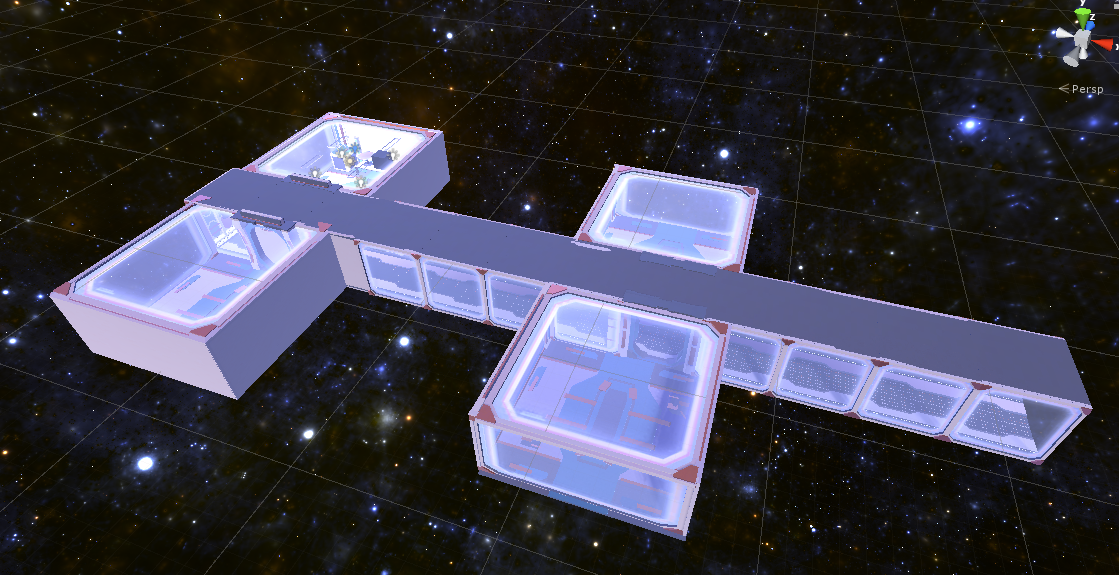
### Challenges encountered:

## John:

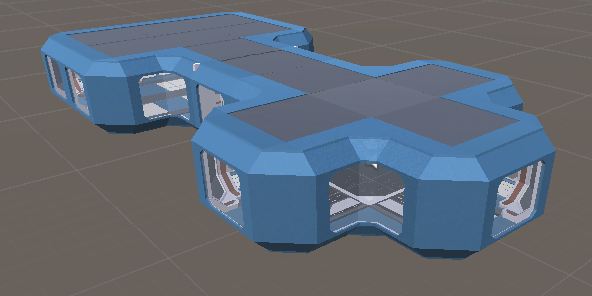
### Challenges encountered:

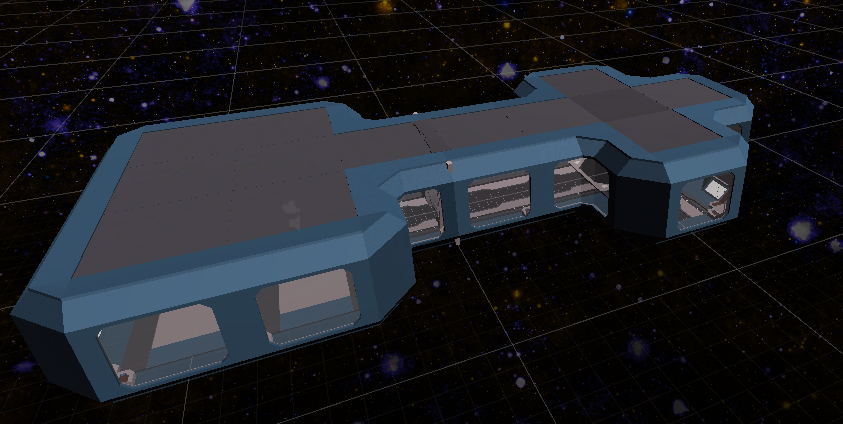
# Evidence / Screenshots of Progress:

## Game first design with textures:



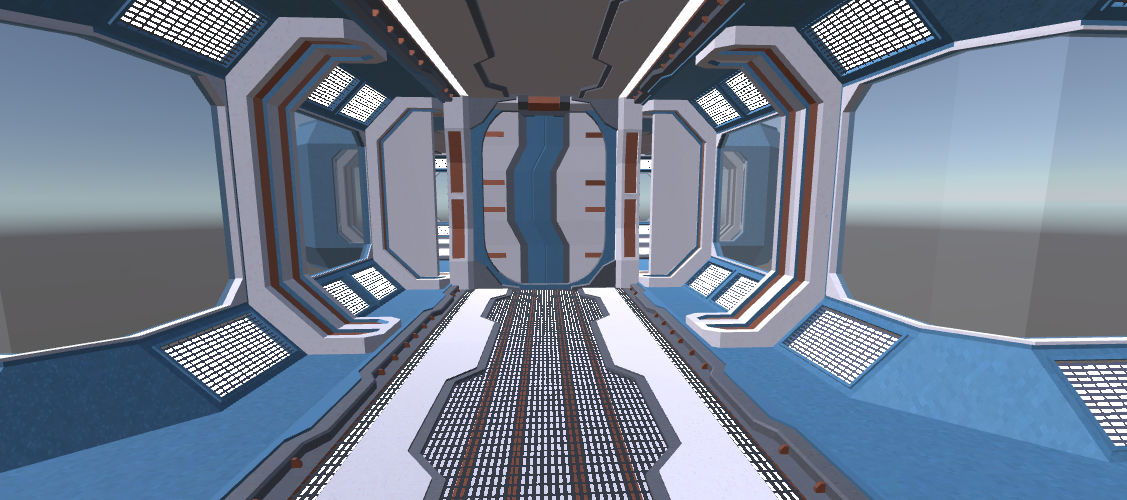
## Game stage 1:





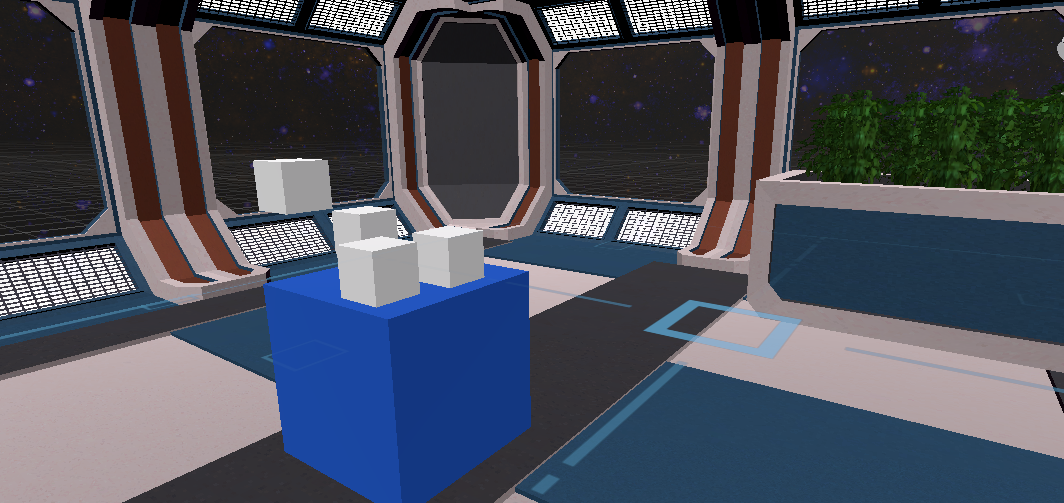
## Game interior:

## 

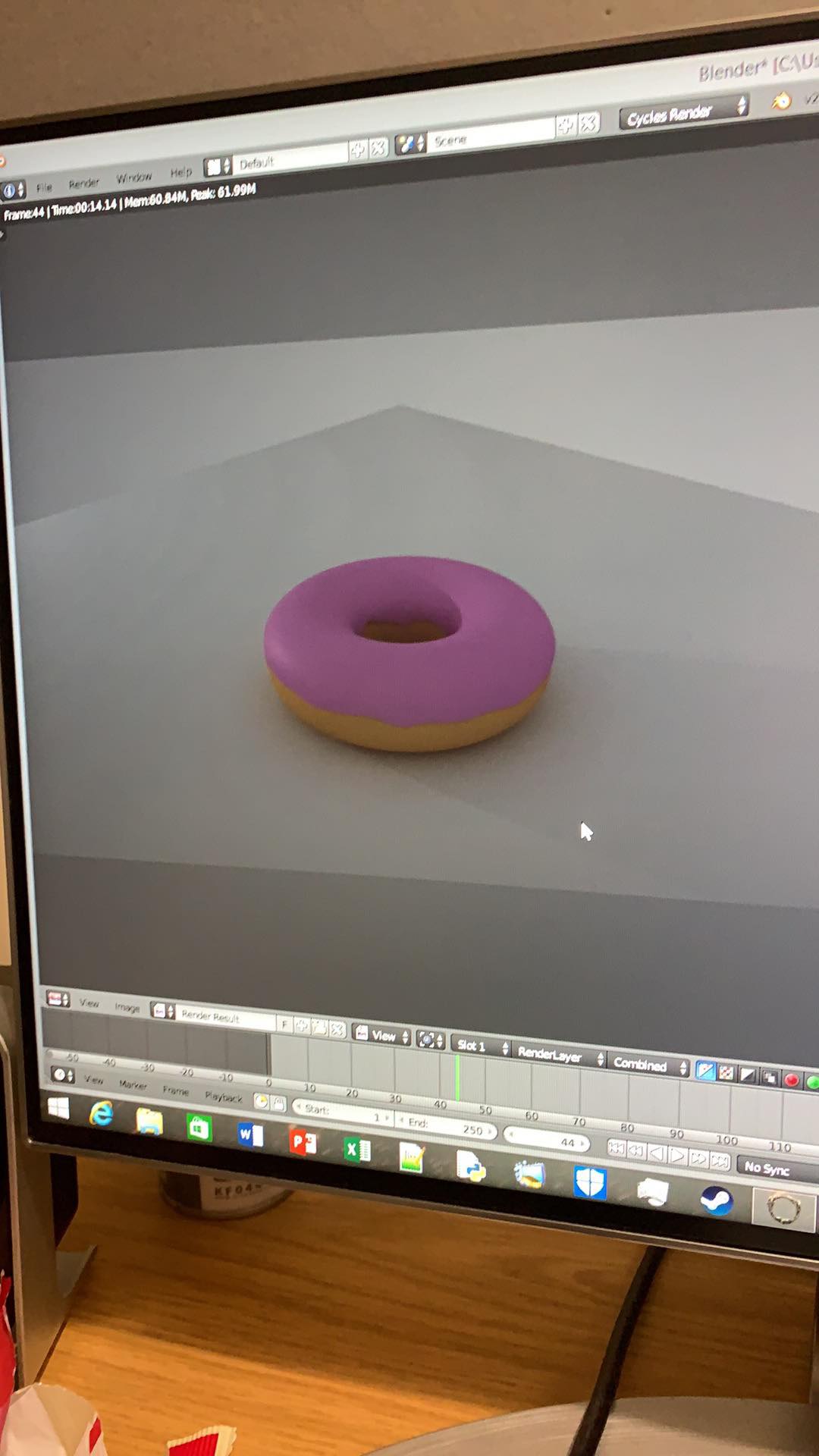


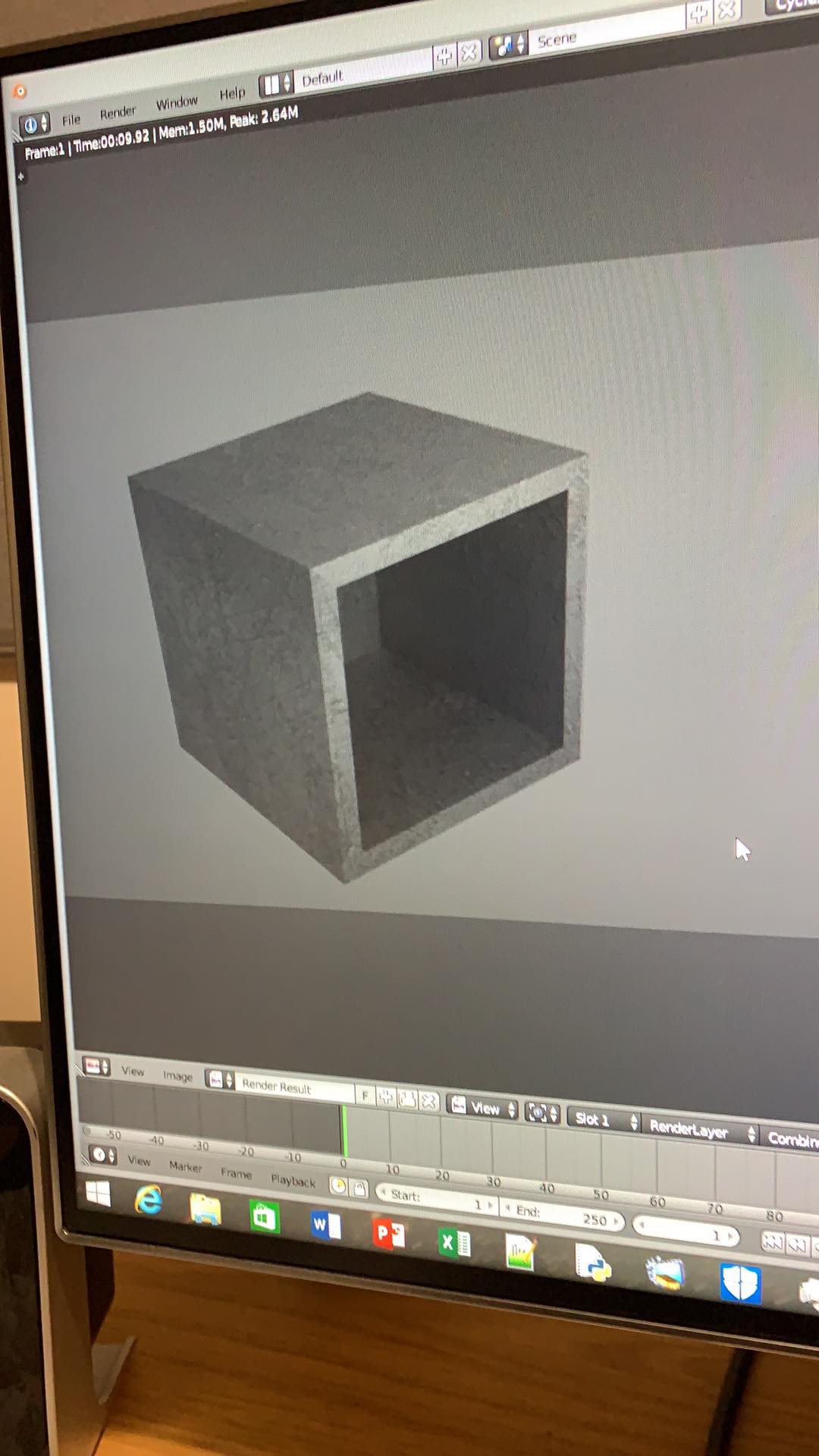
## 

## Interaction with objects:



## Blender:





# References:

**Assignment brief:**

<https://studentcentral.brighton.ac.uk/webapps/blackboard/execute/content/blankPage?cmd=view&content_id=_3335048_1&course_id=_110301_1>

**Puzzle ideas:**

<https://escaperoomtips.com/design/escape-room-puzzle-ideas>

<http://www.queencityescape.com/top-20-puzzle-ideas/>