

---

# **User Interface Specifications**

**for**

## **CZ3003 Hydra-Defence**

**Version 1.0 approved**

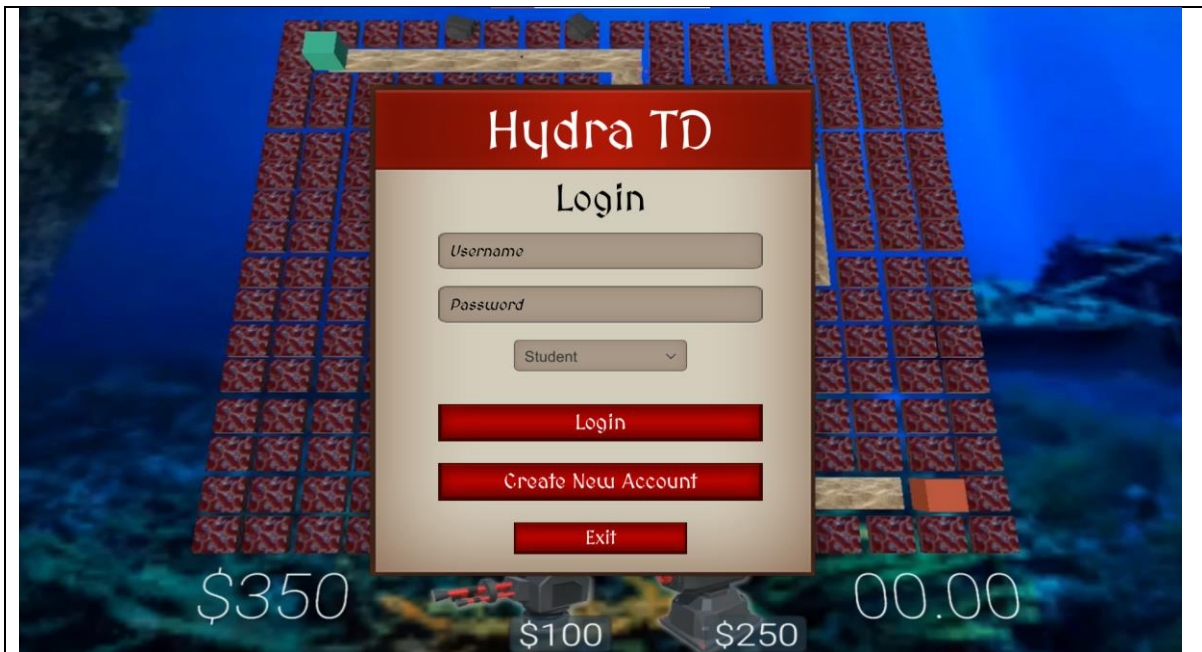
**Prepared by Yeong Wei Xian  
Lim Wi Teow**

**HydraPark**

**13 April 2021**

# User Interfaces

## Login

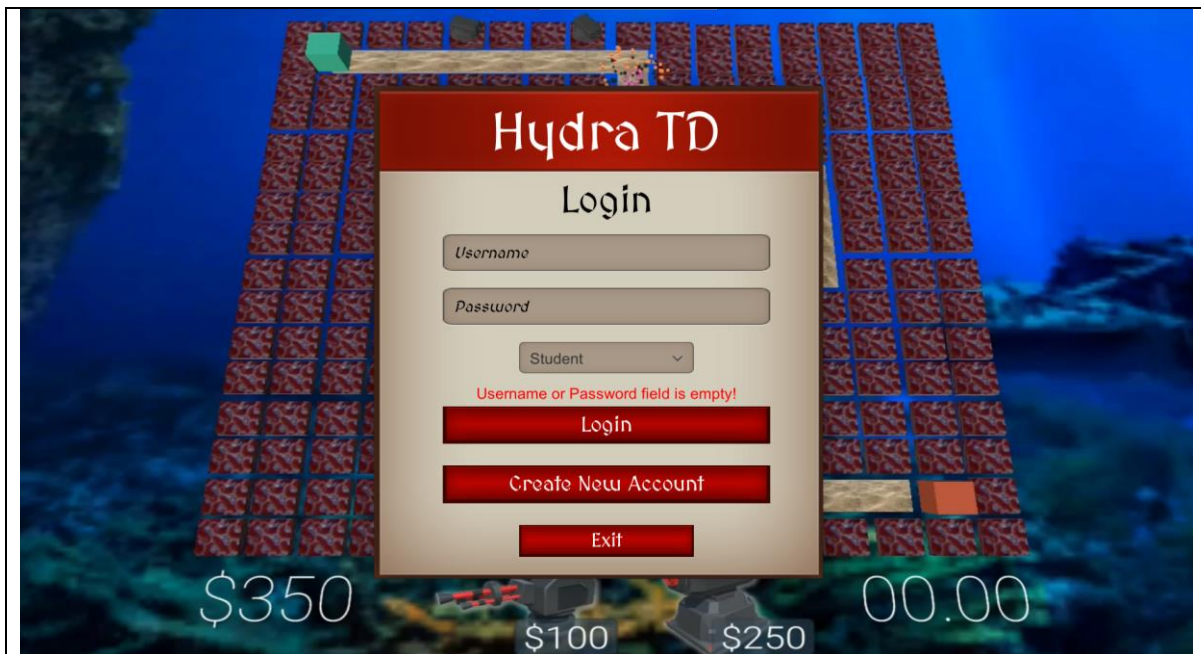


### Login Page

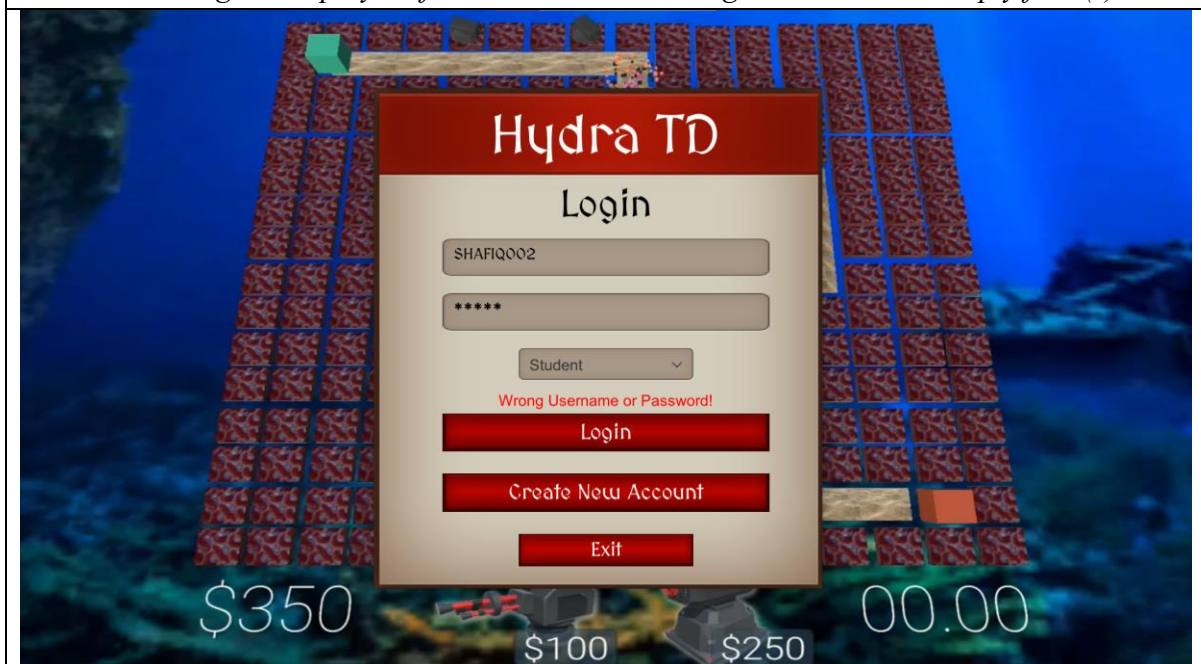
*Allows user to login to either student or teacher account using the dropdown menu*

#### Buttons:

- "Login"
  - Loads Student's Main Menu if student's inputs are valid
  - Loads Teacher's Main Menu if teacher's inputs are valid
- "Create New Account" - loads Register Interface
- "Exit" - closes the application

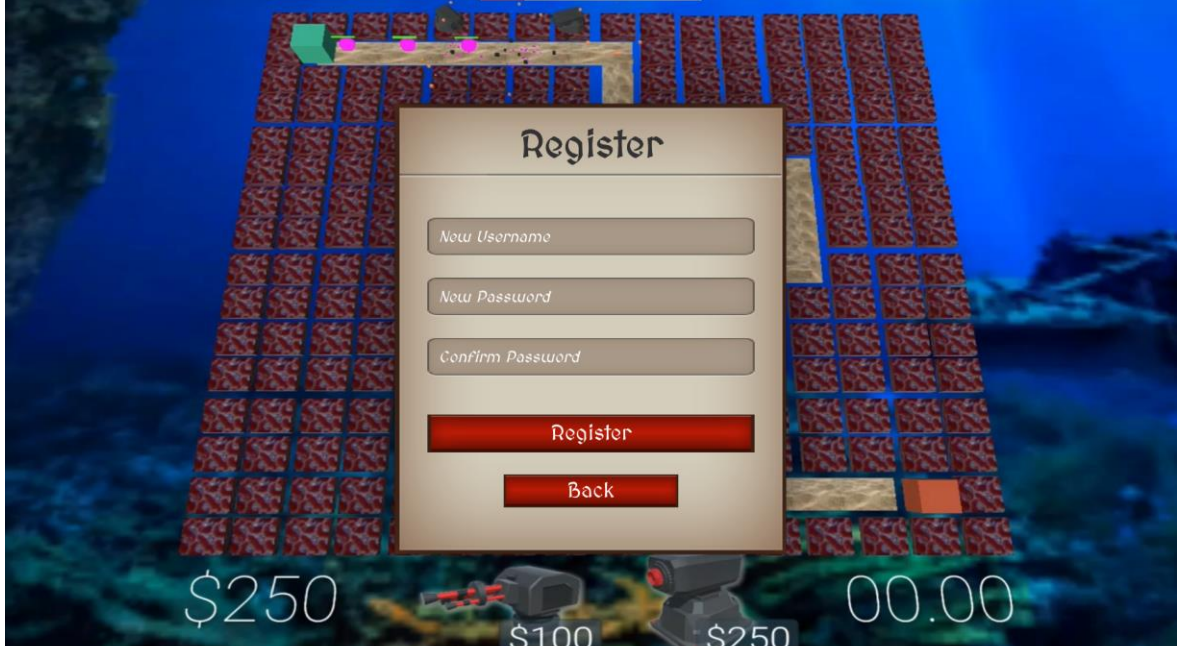


*An error message is displayed if user clicks on the "Login" button with empty field(s)*



*An error message is displayed if user clicks on the "Login" button with wrong username or password*

## Register



The image shows a "Register" form overlaid on a game environment. The form has a title "Register" and three input fields: "New Username", "New Password", and "Confirm Password". Below the fields are two buttons: "Register" and "Back". The background is a game scene with a brick wall, a blue sky, and a green ground. At the bottom of the screen, there are three currency values: "\$250", "\$100", and "\$250", and a score of "00.00".

### Register Page

#### Buttons:

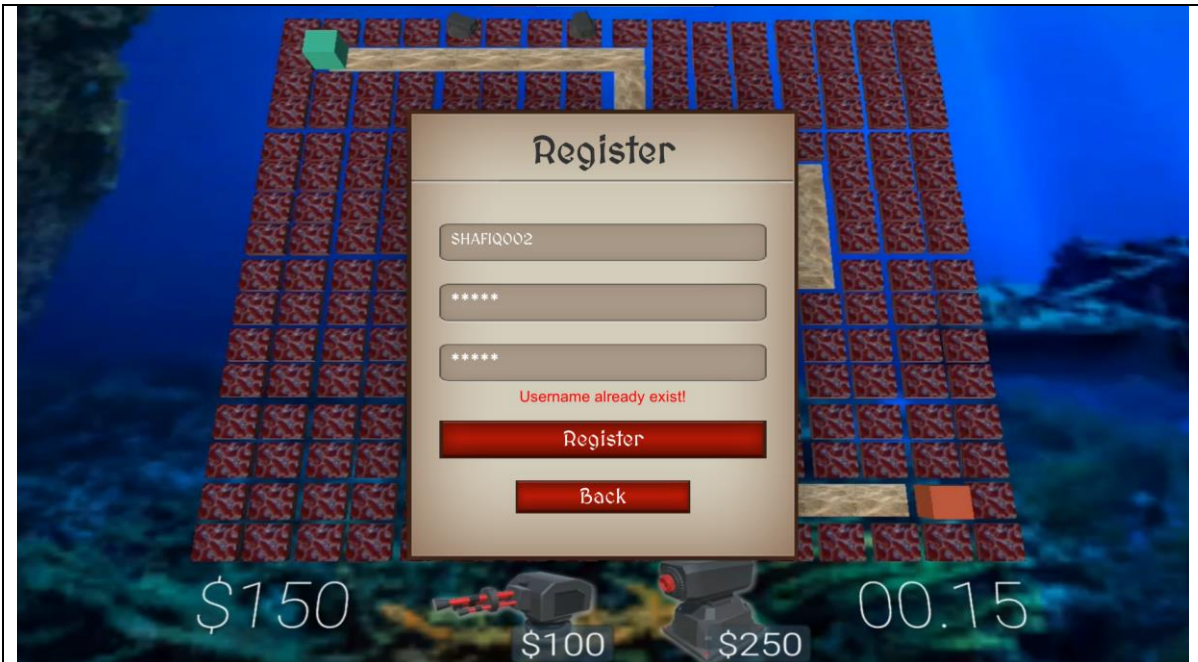
- "Register" - loads Avatar Selection Page if inputs are valid
- "Back" - loads Login Interface



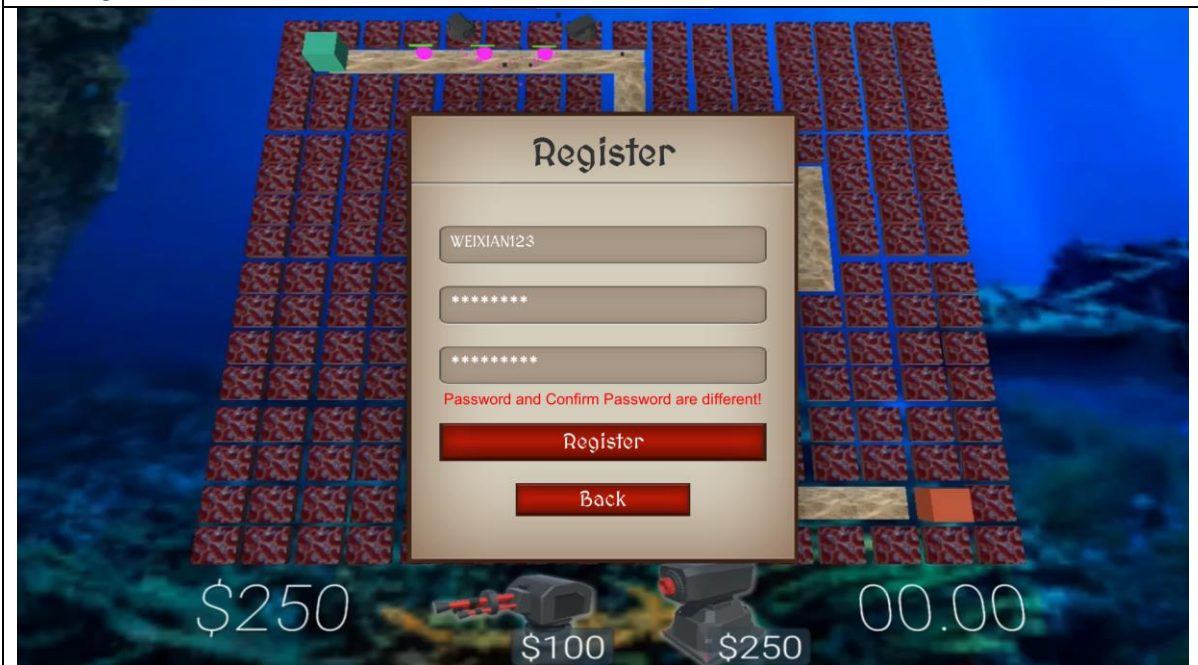
The image shows the same "Register" form as above, but with an error message displayed below the input fields: "Username or Password field is empty!". The background and currency values are the same as in the previous image.

*An error message is displayed if user clicks on the "Register" button with empty field(s)*

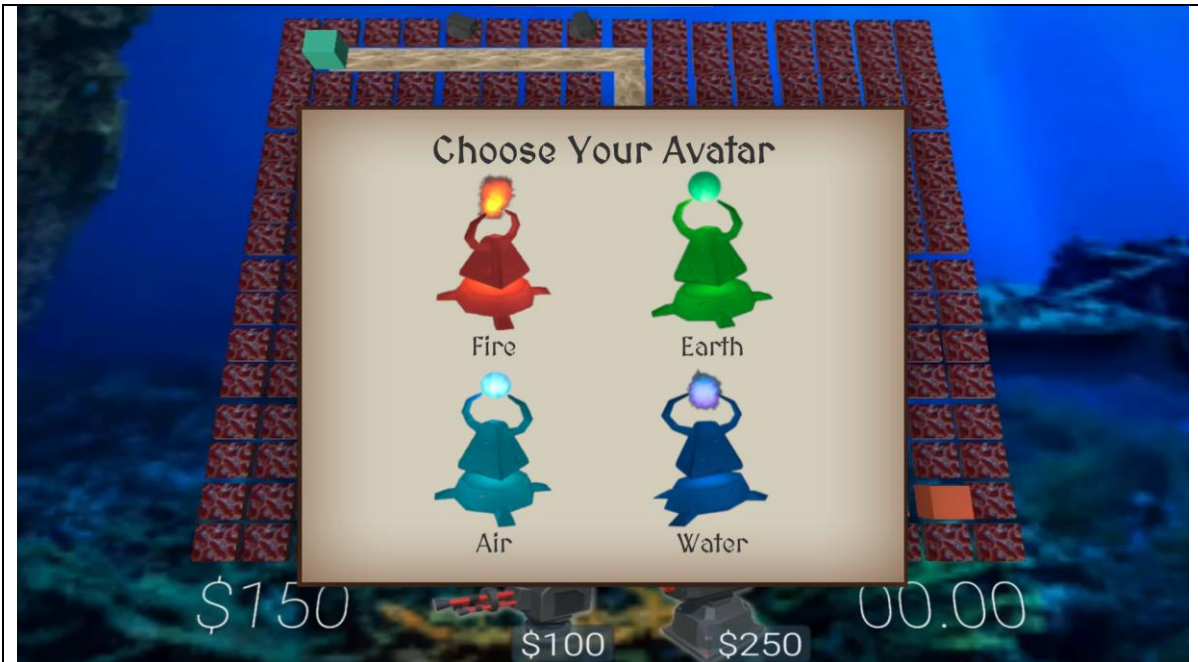




*An error message is displayed if user clicks on the “Register” button after entering an existing username*



*An error message is displayed if user clicks on the “Register” button with different values for the Password field and the Create Password field*



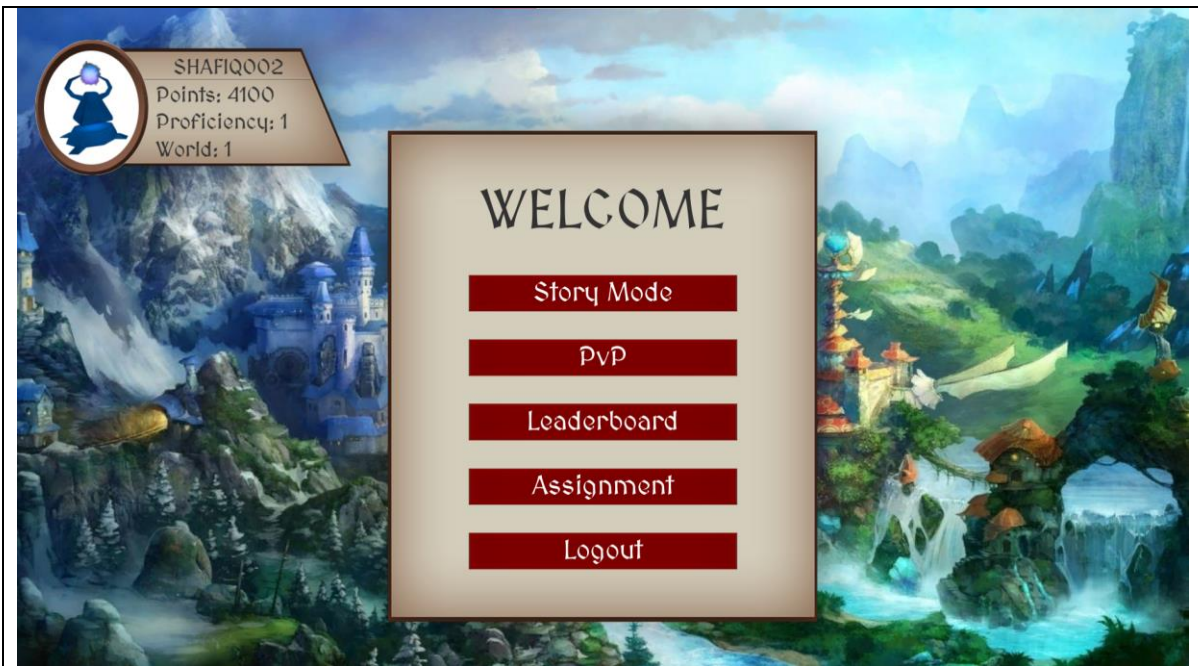
### Avatar Selection Page

*Allows user to choose avatar after creating a new account*

#### Button:

- *Avatar* - loads Login Page

## Student's Main Menu



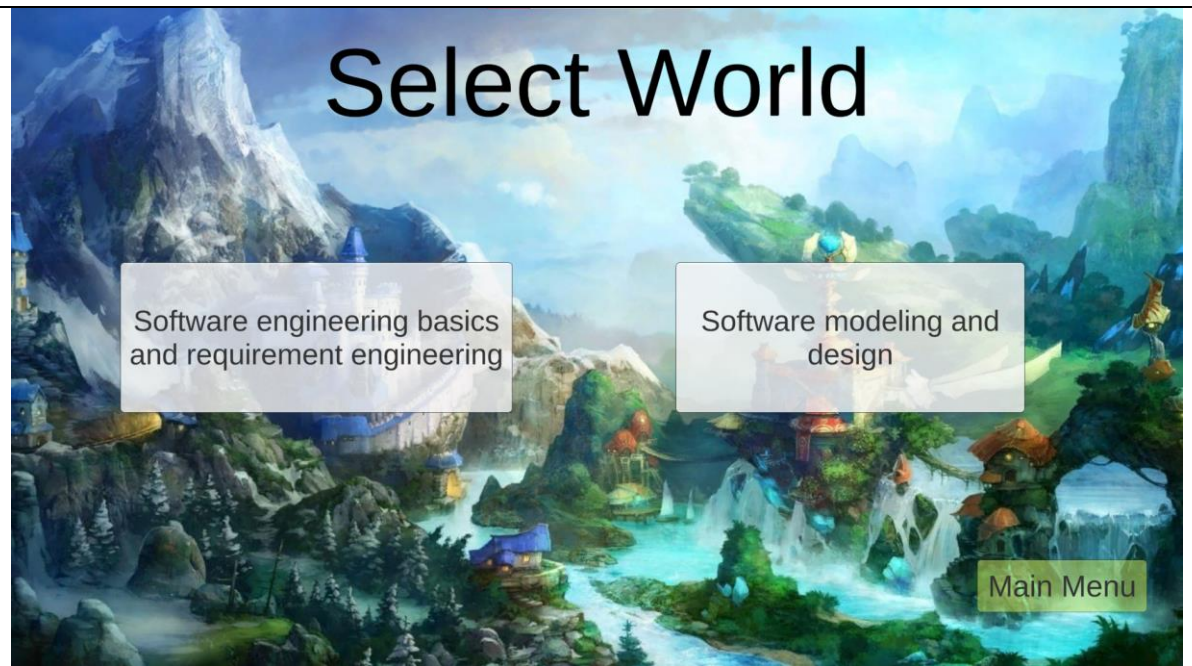
## Student's Main Menu

### Buttons:

- “Story Mode” - loads Story Mode Interface
- “PVP” - loads PVP Mode Interface
- “Leaderboard” - loads Leaderboard Interface
- “Assignment” - loads Assignment Interface
- “Logout” - loads Login Interface



## Story Mode



### World Selection Page

#### Button:

- “Main Menu” - loads Student’s Main Menu

*World* - loads Section Selection Page



### Section Selection Page

#### Button:

- “Main Menu” - loads Student’s Main Menu

*Section* - loads Level Selection Page





### Level Selection Page

**Button:**

- “Main Menu” - loads Student’s Main Menu

*Level* - loads Quiz Page

## Quiz

Which of the following statements explain portability in non-functional requirements	Score
It cannot be enhanced by using languages or tools that are universally available and standardized	<input type="checkbox"/>
It is a degree to which software running on one platform can easily be converted to run on another platform	<input type="checkbox"/>
The ability of the system to behave consistently in a user-acceptable manner when operating within the environment for which the system was intended	<input type="checkbox"/>
None of the above	<input type="checkbox"/>
	<input type="button" value="Next Question"/>

### Quiz Page

#### Button:

- “Next Question”
  - Before game: loads the next Quiz Page. If all questions are answered, loads Quiz Ended Page
  - During game: loads Gameplay Page

# Quiz Ended

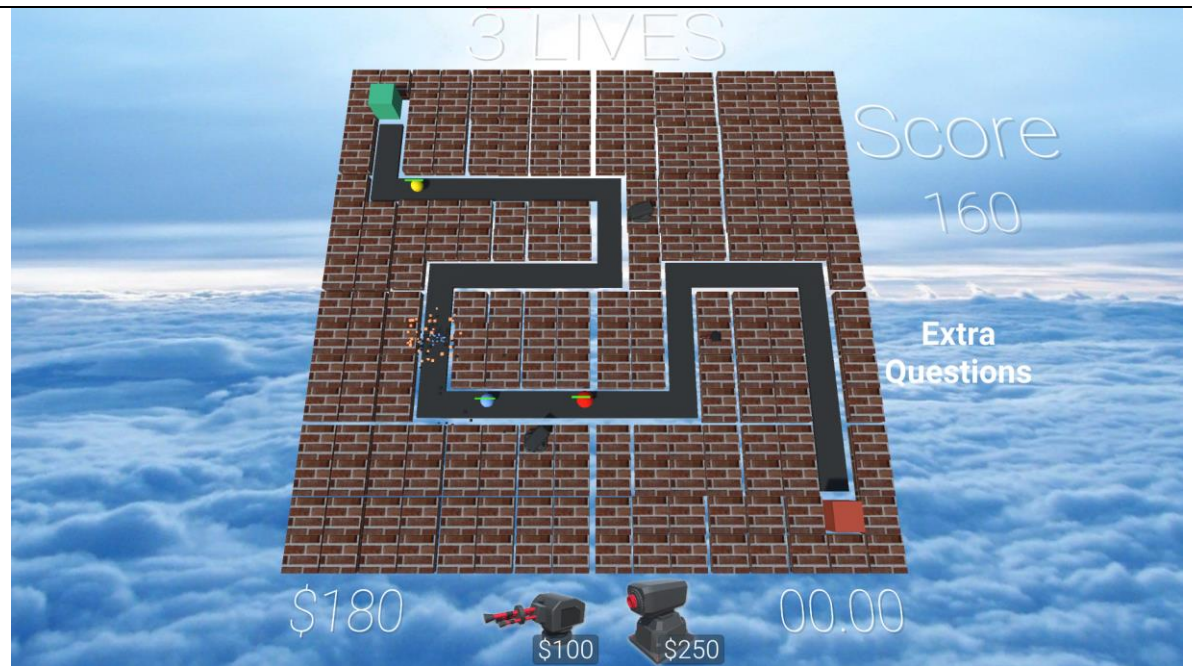
Your Score:  
1

### Quiz Ended Page

#### Button:

- “Proceed to game” - loads Gameplay Page

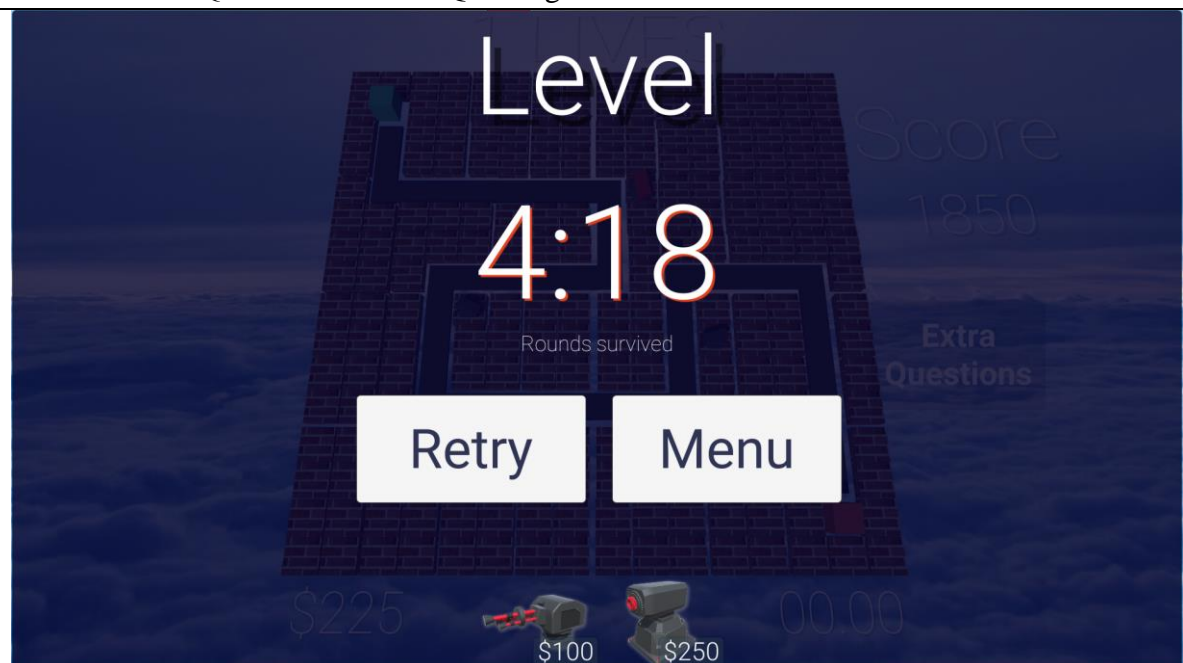
## Gameplay



### Gameplay Page

#### Button:

- “Extra Questions” - loads Quiz Page



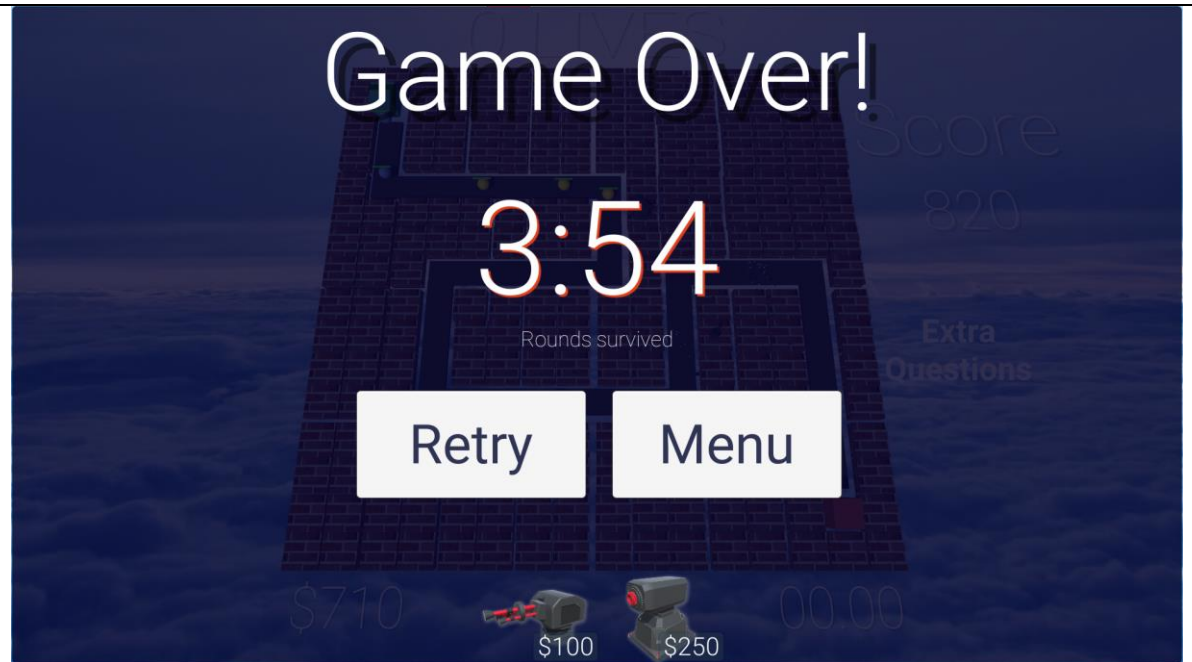
### Victory Page

*This page is loaded if the user completes the level*

#### Buttons:

- “Retry” - loads Gameplay Page
- “Menu” - loads Student’s Main Menu





### Game Over Page

*This page is loaded if the user did not complete the level*

#### Buttons:

- “Retry” - loads Gameplay Interface
- “Menu” - loads Student’s Main Menu

## PVP Mode



### PVP Menu

#### Buttons:

- "Create Room" - loads Create Room Page
- "Join Room" - loads Join Room Page
- "Main Menu" - loads Student's Main Menu

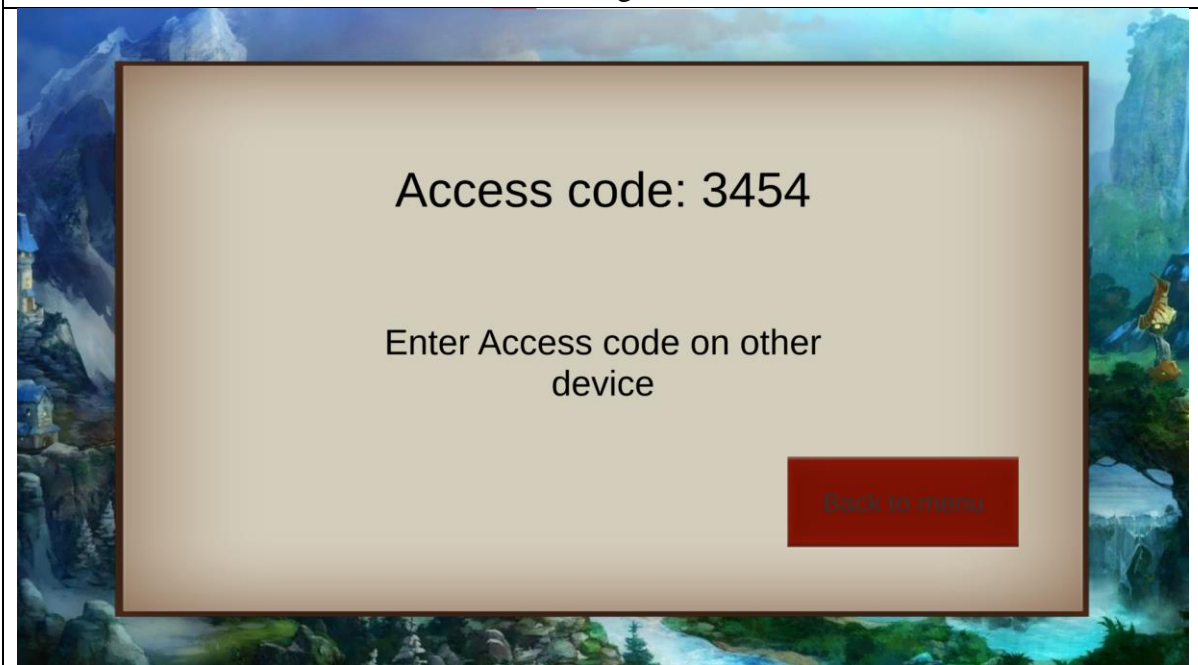


### Create Room Page

*Allows users to select the world, section and level for the PVP game*

**Button:**

- “Create Game” - loads Access Code Page



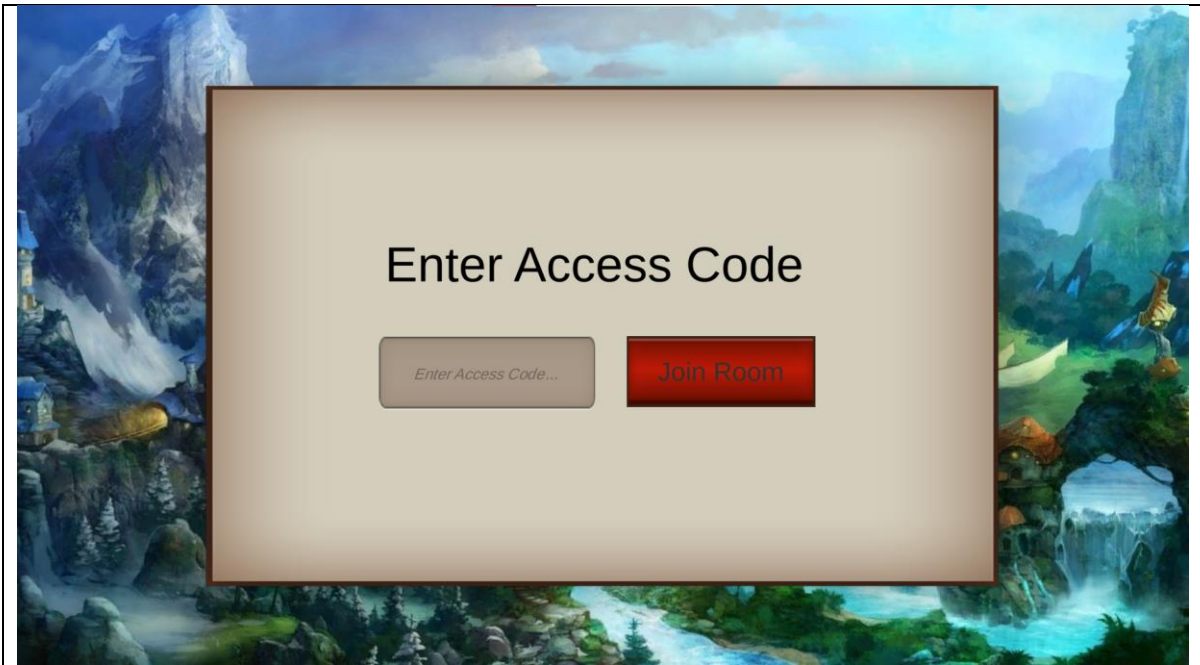
### Access Code Page

*Displays the access code for the PVP room created*

**Button:**

- “Back to menu” - loads PVP Menu

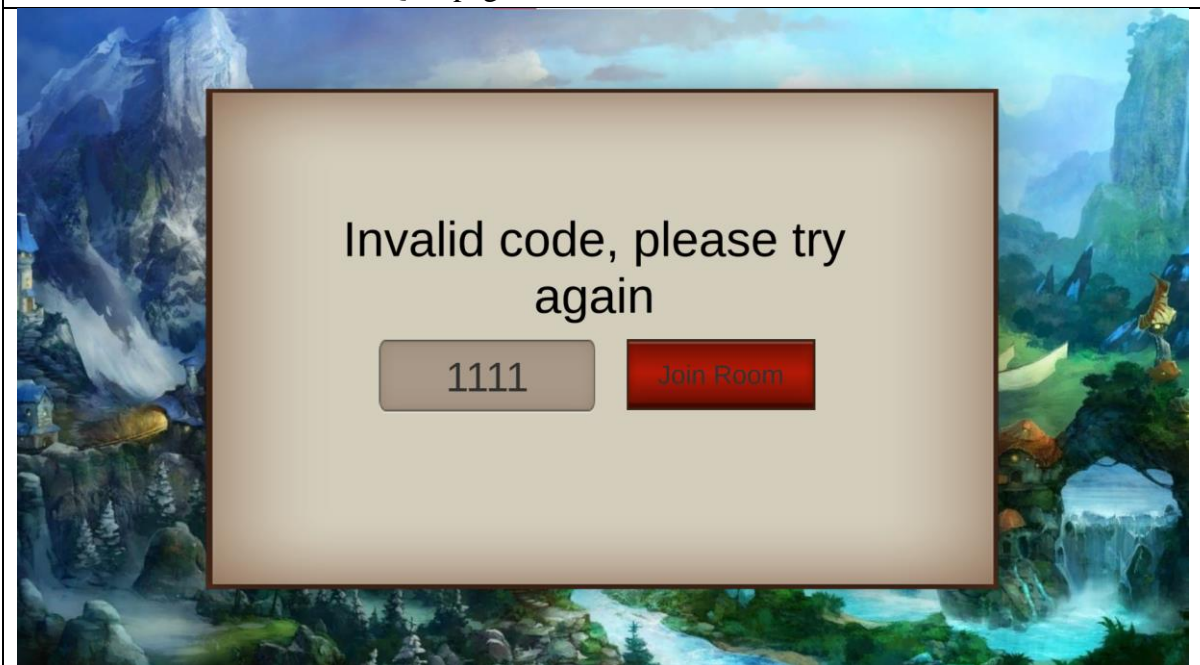




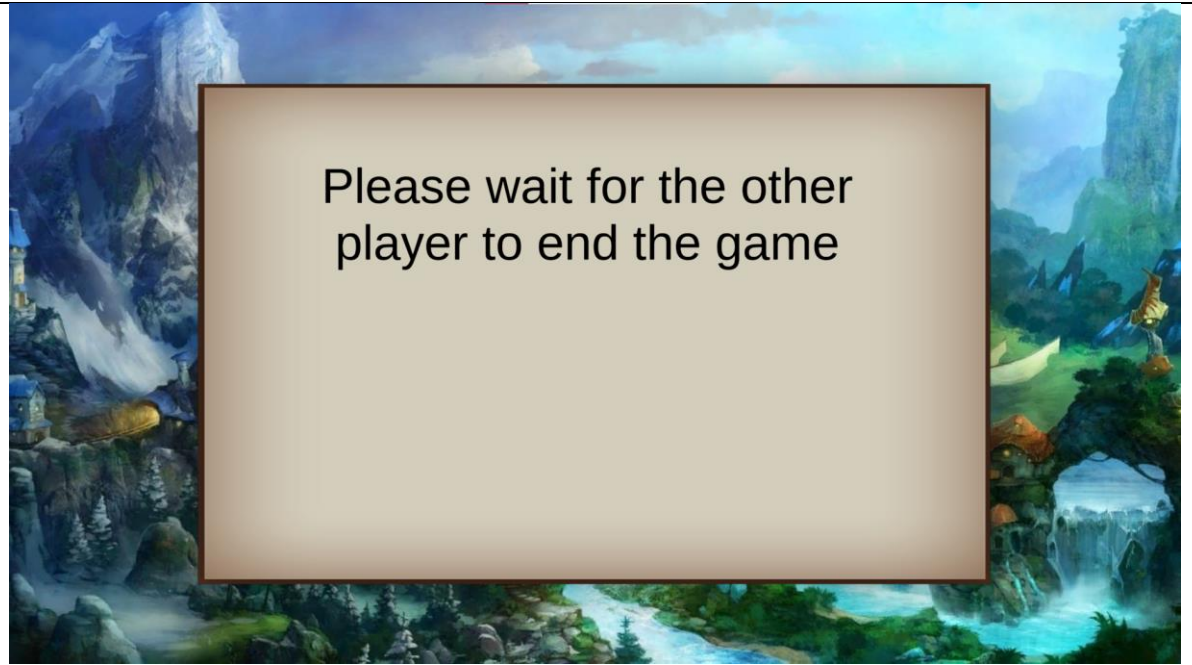
### Join Room Page

**Button:**

- “Join Room” - loads Quiz page if a valid access code is entered

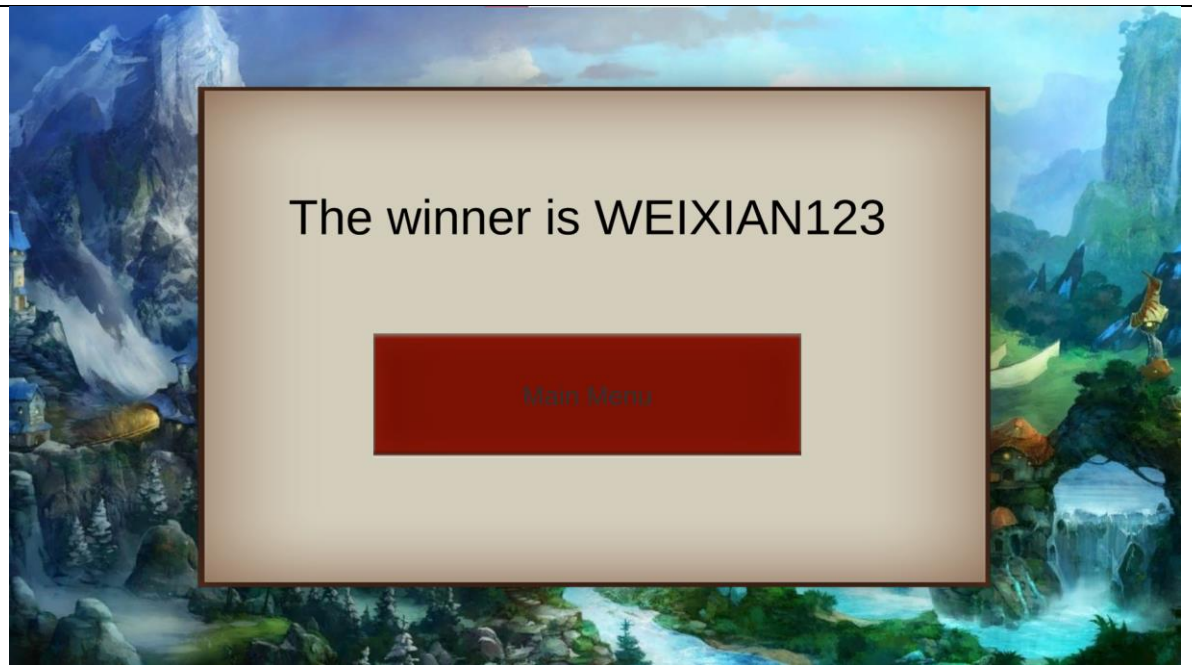


*An error message is displayed if user clicks on the “Join Room” button after entering an invalid access code*



### **Waiting Page**

*This page is loaded after the user finished playing the game for PVP mode before the opponent*



### **Winner Page**

*The winner for the PVP game is displayed after both users finished playing the game*

#### **Button:**

- "Main Menu" - loads Student's Main Menu

## Leaderboard



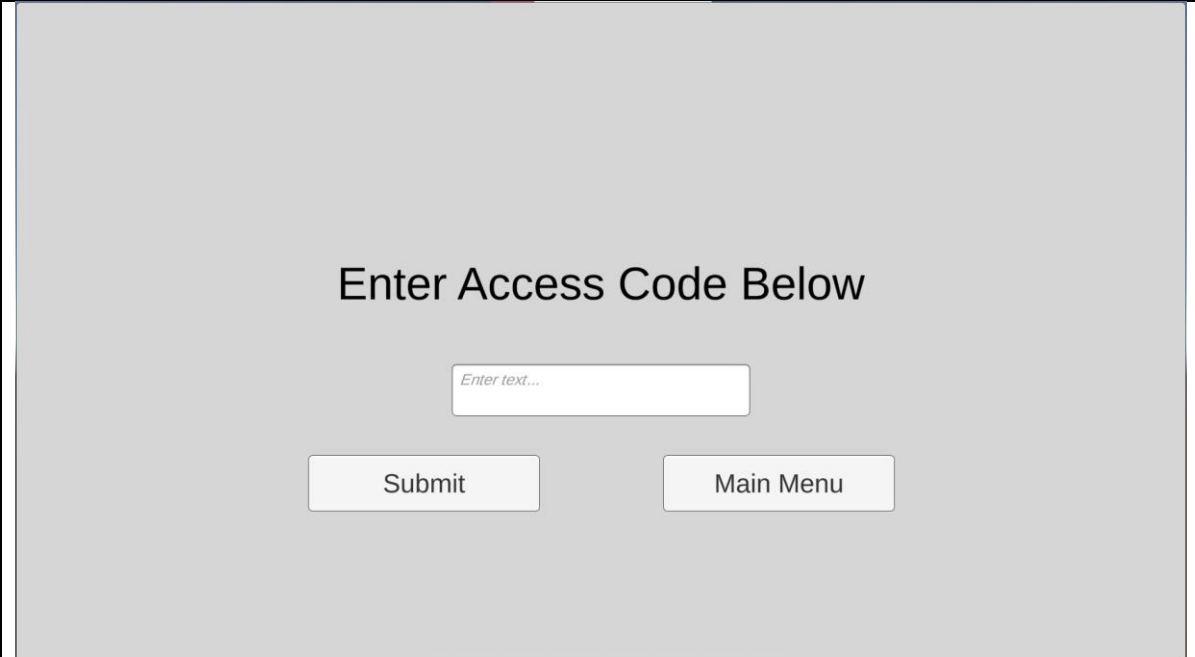
### Leaderboard Page

#### Button:

- “Main Menu” - loads Student’s Main Menu



## Assignment

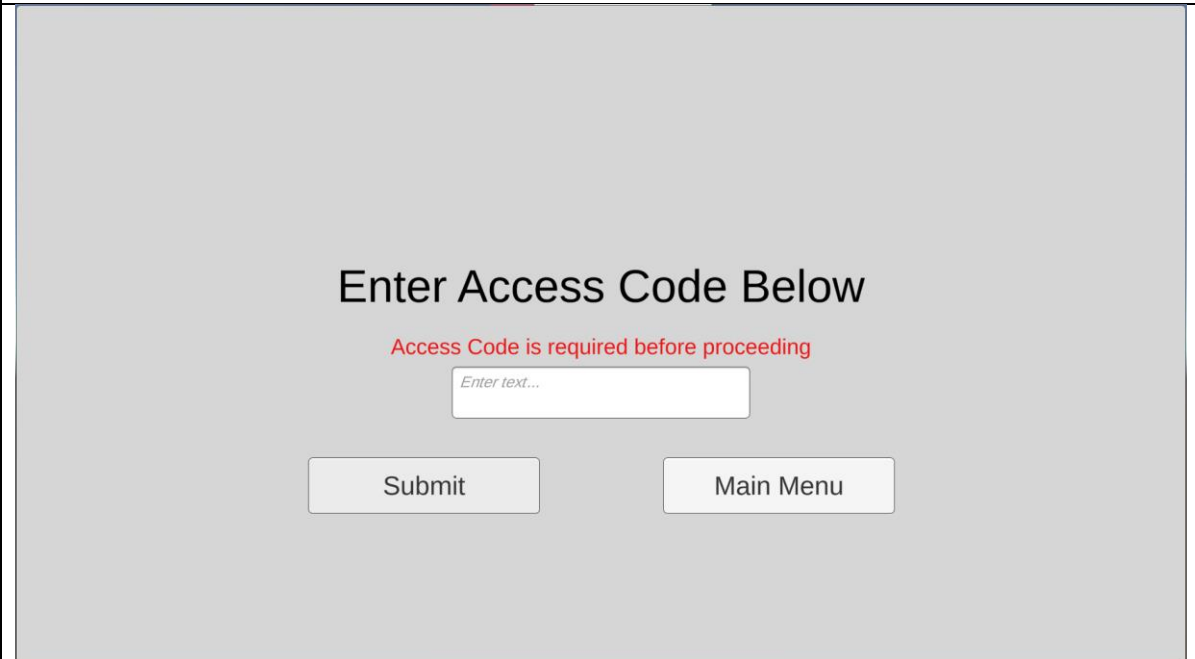


A screenshot of a web form titled "Enter Access Code Below". The form has a light gray background. At the top, the text "Enter Access Code Below" is centered in a large, black, sans-serif font. Below the text is a white text input field with the placeholder text "Enter text...". Underneath the input field are two buttons: "Submit" on the left and "Main Menu" on the right. Both buttons are white with a thin gray border and rounded corners.

### Assignment Menu

#### Buttons

- “Submit” - loads Instruction Page if valid access code is entered
- “Main Menu” - loads Student’s Main Menu



A screenshot of the same web form as above, but with an error message displayed. The text "Enter Access Code Below" is still at the top. Below it, the error message "Access Code is required before proceeding" is displayed in a red, sans-serif font. The white text input field with the placeholder "Enter text..." is empty. The "Submit" and "Main Menu" buttons are still present at the bottom.

*An error message is displayed if user clicks on “Submit” button with empty access code field*

## Enter Access Code Below

No questions could be found for the given access code. Please check and try again.

*An error message is displayed if user clicks on “Submit” button after entering an invalid access code*

### Assignment Instructions:

1. Assignment is in the multiple choice format with only 1 possible answer. There will always be 4 given options for every question.
2. Students are only able to submit to submit their assignment once.
3. The assignment will only be available for 1 week after the teacher has post the access code online (Facebook or Twitter)
4. Students are NOT ALLOWED to backtrack to other questions. However, there will be no time limit given for the assignment.

### Instruction Page

#### Button:

- “Start Assignment”
  - Loads Question Page if there are more than one question
  - Loads Last Question Page if there is only one question

What is included in the use case diagram

- ☐ Actor
- ☐ Use case
- ☐ Association
- ☐ All of the above

Next  
Question

## Question Page

### Button:

- “Next Question”
  - Loads the next Question Page if there are more than one question left
  - Loads Last Question Page if there is only one question left



Which of the following is not a type of use case association?

☐ Includes

☒ Extend

☐ Exclude

☐ All of the above

Submit Assignment

### Last Question Page

**Button:**

- Loads Completed Page

You have successfully completed the Assignment!

Please click "Return to Main Menu" to end the session.

Return to Main Menu

### Completed Page

**Button**

- "Return to Main Menu" - loads Student's Main Menu

## Teacher's Main Menu



### Teacher's Main Menu

#### Buttons:

- "Quiz Report" - loads Quiz Report Page
- "Assignment Report" - loads Assignment Report Page
- "Logout" - loads Login Page

## Quiz Report



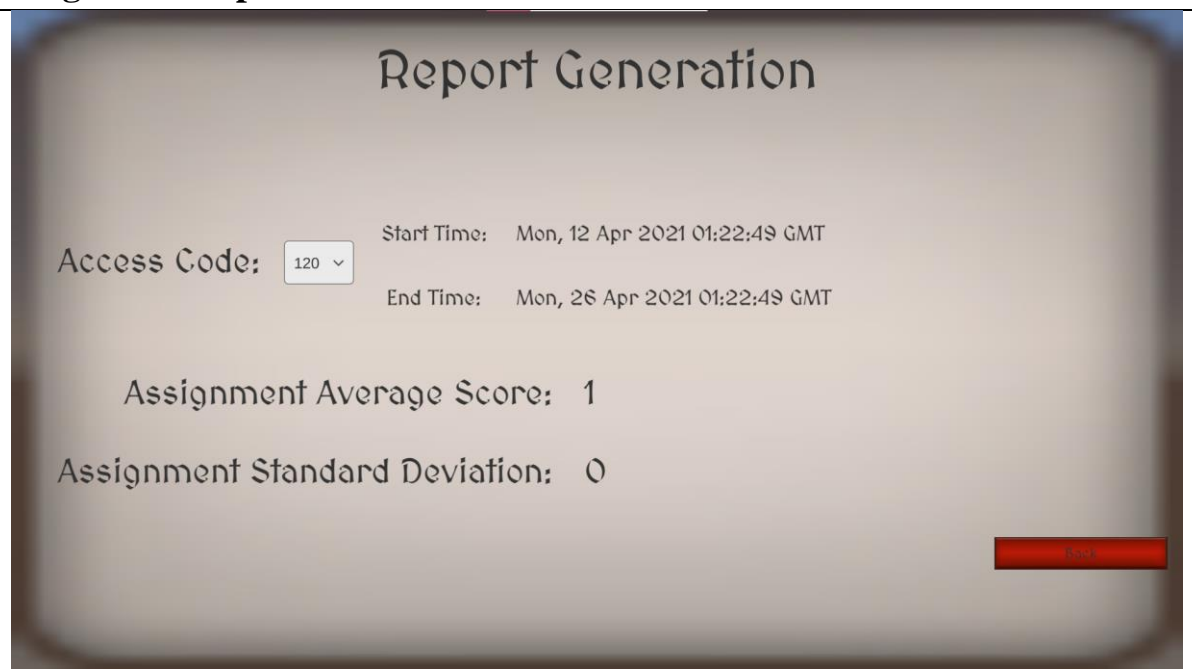
### Quiz Report Page

**Button:**

- “Back” - loads Teacher’s Main Menu



## Assignment Report

A screenshot of a web application interface titled "Report Generation". It features a light gray background with a dark blue header. The interface includes an "Access Code:" label next to a dropdown menu showing "120". To the right, it displays "Start Time: Mon, 12 Apr 2021 01:22:49 GMT" and "End Time: Mon, 26 Apr 2021 01:22:49 GMT". Below these, it shows "Assignment Average Score: 1" and "Assignment Standard Deviation: 0". A red "Back" button is located in the bottom right corner.

Report Generation

Access Code: 120 ▾

Start Time: Mon, 12 Apr 2021 01:22:49 GMT

End Time: Mon, 26 Apr 2021 01:22:49 GMT

Assignment Average Score: 1

Assignment Standard Deviation: 0

Back

### Assignment Report Page

*Allows user to view the report for different assignments by selecting the access code using the dropdown menu*

**Button:**

- “Back” - loads Teacher’s Main Menu

## Assignment Creation

<div><p>Assignment Creation (For Teachers Only)</p><p>Username <input type="text" value="Enter text..."/></p><p>Password <input type="password" value="Enter text..."/></p><p>Login</p></div>	
<p><b>Assignment Creation Login Page</b></p> <p><b>Button:</b></p> <ul style="list-style-type: none"><li>“Login” - loads Assignment Creation Main Menu if inputs are valid</li></ul>	
<div><p>Assignment Creation (For Teachers Only)</p><p>Username <input type="text" value="Enter text..."/></p><p>Password <input type="password" value="Enter text..."/></p><p>Username or Password field is empty!</p><p>Login</p></div>	
<p><i>An error message is displayed if user clicks on the “Login” button with empty field(s)</i></p>	

## Assignment Configurations

Number of Questions

Access Code

### Assignment Creation Main Menu

#### Buttons:

- “Logout” - loads Assignment Creation Login Page
- “Continue” - loads Set Question Page if inputs are valid

## Assignment Configurations

Number of Questions

Access Code

Number of Questions or Access Code field is empty!

*An error message is displayed if user clicks on “Continue” button with empty field(s)*



Question 1

Question 2

### Question Description 1

Question Title  
Enter text...

Answer  
Enter text...

Option 1  
Enter text...

Option 2  
Enter text...

Option 3  
Enter text...

Option 4  
Enter text...

Import Question

Cancel Assignment

Create Assignment

## Set Question Page

User can modify each question by clicking on the question number at the left side

### Buttons:

- “Import Question” - loads Import Question Page
- “Cancel Assignment” - loads Assignment Creation Main Menu
- “Create Assignment” - loads Success Page if inputs are valid

Question 1

Question 2

Question 2 has an invalid answer.

Import Question

Cancel Assignment

Create Assignment

An error message is displayed if inputs are invalid

Topic:	Software engineering basics and requirement engineering ▾
Sub Topic:	Requirement Elicitation Techniques ▾
Difficulty:	1 ▾
<div>Find Question</div>	

**Import Question Page**

*Allows user to import questions from different topic, sub topic and difficulty level using the dropdown menu*

**Button:**

- “Find Question” - loads Question Bank Page

Question 1  
Question 2  
Question 3  
Question 4

Question Title:  
Requirements prioritization and negotiation belongs to:

Answer:  
Requirements elicitation

Options:  
1.Requirement validation  
2.Requirements elicitation  
3.Feasibility study

Save as question

### Question Bank Page

*Allows user to choose which question to import*

#### Button:

- “Save as question” - loads Set Question Page

Main Menu



Message to be copied:

The test has been created! Students assigned to this test can take it from 22:22 12 April, 2021 to 22:22 26 April, 2021. Do take note that the te

Access Code:

2727

Share Via:


 Log in with Facebook

### Success Page

*Allows user to share the message to social media by clicking on the social media icons*

#### Buttons:

- “Main Menu” - loads Assignment Creation Main Menu