

Technical Design Doc

Graphics Team

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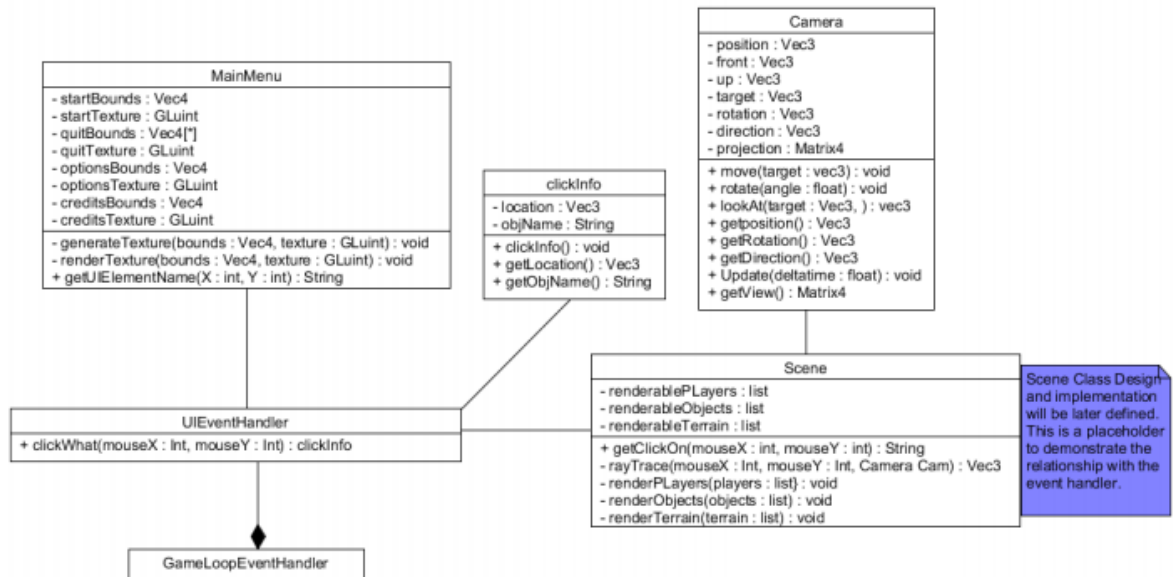
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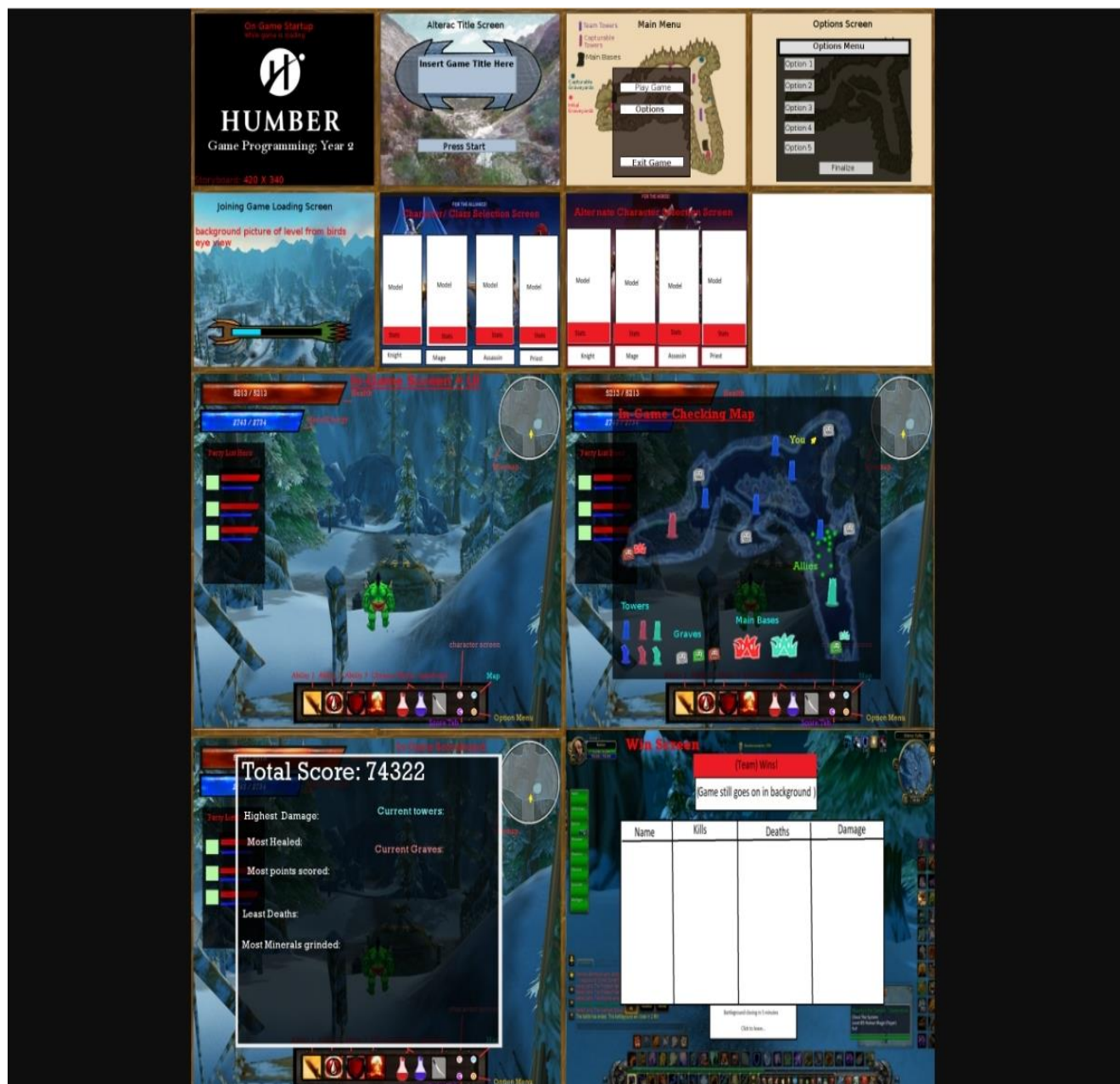
EventHandler UML



Description

The Eventhandler will check input and on mouse click, it will take the mouse's coordinated and compare it with the UI elements. It will then return The UI element's name, or raytrace for an object in the worldspace and return the name of that object. The game loop can use this name (or ID) to determine what action to take.

Story Board Template



UI Events and Functionality

Scene Class:

- needs to have a UI object defined
- calls UI->OnCreate() in Scene::OnCreate()
- calls UI->Update() in Scene::Update()
- calls UI->Render() in Scene::Render()
- call UIManager->HandleEvents() when the player clicks on an interactable UI element or presses the button to pull up a sub menu

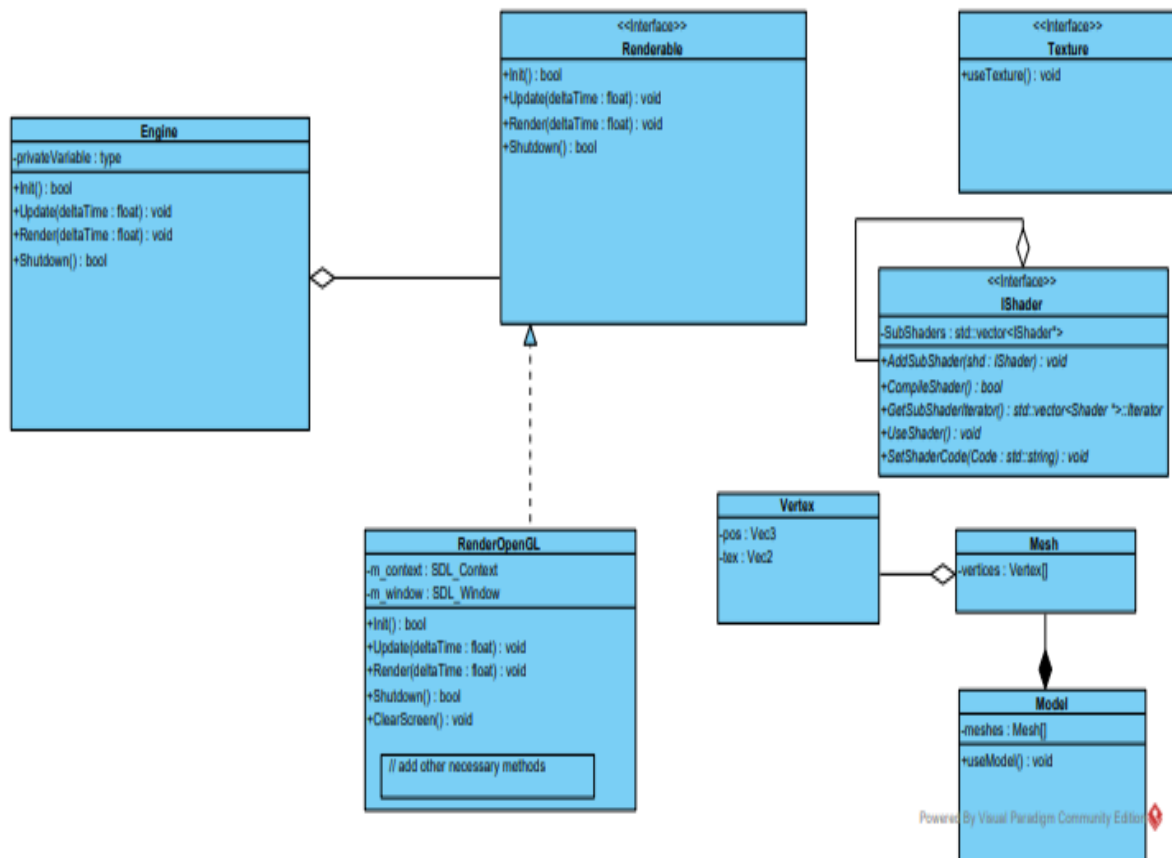
UI Manager Class:

- manage the UI changing an element(s) when:
 - 1) A mouse event (i.e. OnMouseOver(), OnMouseDown, and OnMouseUp()) occurs
 - 2) Key event (OnKeyDown(), OnKeyUp()) occurs when the player has been hit or killed
 - 3) When the player uses an item or ability
- manage the UI completely changing when loading between the game and menu
- have a sub menu when the player presses a certain button

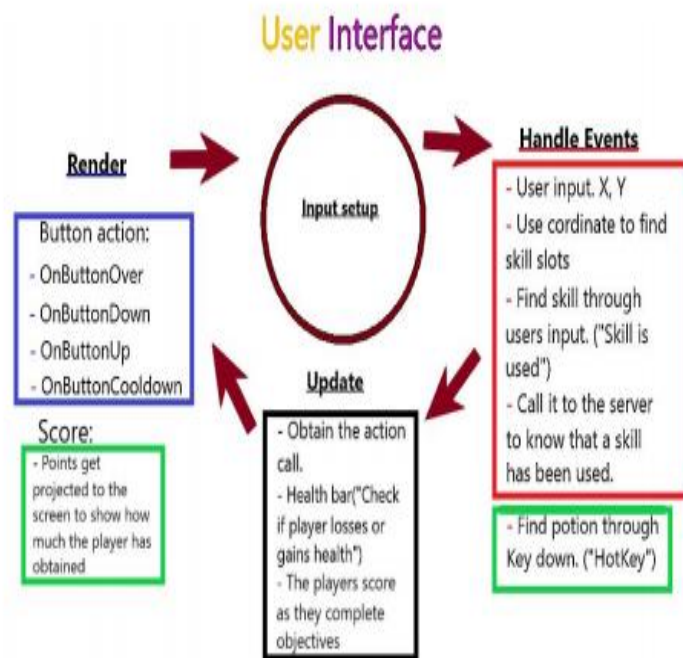
Description

The Scene class treats the UI as an object that and calls its methods in the corresponding classes. The scene creates, updates, renders and destroys the UI. The UI Manager class is called by the scene and affects the UI based on the input it receives. It affects what parts of the UI are rendered on the screen such as a larger map.

Renderable Protocol UML Class



User Interface



Description

This is the main loop for the game. What i have done for the group is make a Chart for the loop regarding the User Interface. This is what the game would need for the UI to work as the game continues to progress.