

Feature Number: 4

Feature Name: User Interface

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- A set of classes for displaying UI elements on the screen. Elements will include buttons, textboxes, images, sliders, radio buttons, list boxes, check boxes, input textbox, panel.
 - Buttons - click causes an event
 - Textbox - displays text on the screen
 - Images - displays a Texture2D on the screen
 - Sliders - slides to increase or decrease a value
 - Radio Button - toggles between multiple options, one must always be selected
 - List Boxes - when button is clicked, a list of button options appear, each causing an event
 - Check Boxes - button that toggles a boolean value
 - Input Textbox - textbox that updates with user text input
 - Panel - logical grouping of elements
- UI Element - Base class for all UI elements.
 - Properties
 - Enabled
 - Interactable
- Buttons - Click causes an event
 - OnClick - Method that is called when clicked
 - Texture
- Textbox - Displays text on the screen
 - Text - String that is displayed on the screen
 - Texture
- Images - Displays a Texture2D on the screen
 - Texture
- Sliders - Slides to increase or decrease a value
 - Slider Texture
 - Handle Texture
 - Value
 - OnUpdate - Called when value changes
- Radio Button - Toggles between multiple options, one must always be selected
 - Texture
 - Group
 - Enabled
 - Fill Texture

- List Boxes - When button is clicked, a list of button options appear, each causing an event
 - Texture
 - Button List - List of buttons for options
- Check Boxes - Button that toggles a boolean value
 - Texture
 - Fill Texture
 - Value
- Input Textbox - Textbox that updates with user text input
 - Texture
 - Text
 - Submit Button - Calls an OnClick event to update corresponding value
- Panel - Logical grouping of elements
 - Texture
 - UI Elements

Menus

- Main Menu - First scene to display when user launches the game. The buttons, when clicked change to the specific scene, or close out of the game
 - UISprite - Logo
 - Start Race Button - Changes scene to setupMenu
 - Options Button - Changes scene to optionsMenu - Currently not interactable
 - Quit Button - Exits the application
- Setup - Scene that is displayed when the start race button is selected on the main menu. Contains all the information needed to setup a race. The user will enter the name of the map file, select how many cars will be used, and the instructions files for those cars.
 - Input Textbox - User enters the map name
 - 2 Radio Buttons - Number of cars
 - 2 Input Textboxes - User enters the car instruction file
 - Start Race Button - Changes the scene to level
 - Main Menu Button- Changes the scene to main menu