Graphic library

So to implement new graphics libraries compatible with my system.

You will need to create a graphics interface with this graphic interface:

```
class IGraphics {
public:
 virtual ~IGraphics() {}
 // Initialize the graphics library
 virtual bool init() = 0;
 // Clean up and close the graphics library
 virtual void close() = 0;
 // Draw an image with his path, and set up the coordinate (x, y) and he's size (scaleX, sclaeY)
 virtual void drawImage(const std::string& imagePath, int x, int y, float scaleX, float scaleY) = 0;
 // Draw a rectangle with the top-left corner at (x, y), with the given width, height, and color
  virtual void drawRect(int x, int y, int width, int height, const std::string& color) = 0;
 // Draw text at the given position (x, y) with the specified color and size
  virtual void drawText(int x, int y, const std::string& text, const std::string& color, int size) = 0;
 // Update the display to show the drawn elements
 virtual void updateDisplay() = 0;
```

```
// Check and process input events, such as keyboard and mouse events
virtual int handleEvents() = 0;
// Clear function in the lib implemented for screen clearing
virtual void clear() = 0;
// Find the lib being implemented
virtual int isLib() = 0;
// Get name of the player
virtual std::string getName() = 0;
// Set Name of the player
virtual void setName(std::string name) = 0;
// Init name of the player, make so that the user can chose his name by typing it
virtual void initName() = 0:
// getWindowWidth
virtual int getWindowWidth() = 0;
// getWindowHeight
virtual int getWindowHeight() = 0;
```

These function are pretty general exept maybe the isLib, And the initName.

The isLib function return a integer so that we recognize the lib, so i have 3 libs, if another lib was implemented, isLib would return 4 because i would have 4 lib.

InitName basicaly handle all the keyboard letters to allow the user to enter a name that will be changed with setName.

Game library:

So to implement new game libraries compatible with my system.

You will need to create a graphics interface with this game interface:

```
class IGame {
public:
  virtual ~IGame() = default;
  // Initiate all the game values
  virtual void init() = 0;
  // Handle all the game updates, like the character movements and everything else
  virtual void update(IGraphics& graphics) = 0;
  // Display everything
  virtual void render(IGraphics& graphics) = 0;
  // Retrun true if the game is over
  virtual bool isGameOver() = 0;
  // Handle events and take a int event that will be given with the help if the graphics handle event function
that retrun a int for each event
  virtual void handleEvent(int event) = 0;
```

```
// Change highscore and print int
virtual void updateHighScores(const std::string& playerName, int playerScore) = 0;

// Change it in the file
virtual void saveHighScores() = 0;

// Get score
virtual int getScore() = 0;
```

Everything is pretty self explanatory or already explained.