

Objectives

- Discuss R&D findings regarding libraries to replace Qt with the team lead.
 - Explore alternative UI frameworks for the project.
 - Transform the UI implementation into ImGui and investigate the use of GLFW/GLAD.
 - Resolve GitHub file size issues for backing up project files.
 - Document the linking process for Boost.Signals2 and SFML with wxWidgets.
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Activities

1. Discussion with Team Lead

- Presented integrated Qt code transformed to use wxWidgets, Boost.Signals2, and SFML.
- Discussed class definitions and attribute declarations.
- Explored additional UI frameworks via [TerminalRoot article](#).
- Received guidance on the concepts of Scene, View, and Item in graphics, including practical uses.
- Learned about ImGui as a preferred UI for game developers and its integration possibilities.
- Decided to replace GraphicScene, GraphicView, and GraphicItem with GLFW and/or GLAD, pending further research on their compatibility.

2. New Tasks Assigned

- Transform UI implementation into ImGui and GLFW/GLAD while keeping Boost.Signals2 for signals.
- Compare SFML with GLFW/GLAD, focusing on pros and cons.
- Ensure the transformed functions in ImGui mirror existing functions and buttons, enabling comparison of:
 - Learning curve.
 - Processing efficiency.
 - Resource and power consumption.

3. GitHub Backup

- Attempted to back up Qt and wxWidgets code to GitHub.
- Encountered file size issues during the push process.

- **Problem:** File size too large for GitHub push.
 - **Solution:** Researched and implemented Git Large File Storage (LFS) after increasing Git buffer size and HTTP post buffer failed.
 - Followed guidance from a YouTube video tutorial: [Git LFS Tutorial](#).
 - Successfully pushed large files using LFS.

4. Documentation

- Created a detailed manual for linking Boost.Signals2 and SFML libraries with wxWidgets in project properties.
 - Included step-by-step instructions.
 - Added important reminders and warnings for user awareness.

Achievements

- Identified and began transitioning to ImGui and GLFW/GLAD based on team lead's guidance.
- Successfully resolved GitHub file size issues using Git LFS and backed up project files.
- Documented the linking process for key libraries, providing clear guidance for future reference.

Problems & Solutions

1. **Problem:** File size too large to push to GitHub.
 - **Solution:** Implemented Git Large File Storage (LFS) based on YouTube tutorial guidance.
2. **Problem:** Limited understanding of ImGui and GLFW/GLAD usage and compatibility.
 - **Solution:** Assigned research tasks to investigate their integration and comparative performance against SFML.