

CS39440: Weekly Logs

GAMEPILE

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Week 1 - W/C: 29th January — Project Initiation

1.1 - Week's Objectives

The objectives for the first week of the project are to decide on the specifics of development. To this end, a project outline will be produced in order to determine: the development methodology going forward, initial research to be carried out, the scope of the project and the platform development will be performed on.

1.2 - Completed Tasks

1. Initial Research
 - Initial research was carried out on competing applications that offer similar features to the ones proposed by the project. Two of these competitors are [Backlogg'd](#) and [HowLongToBeat](#).
2. Document Template Created
 - A template for the typesetting system [Typst](#) was devised in order to produce the official documents for this project.

1.3 - Challenges Faced

Finding an appropriate platform for development was initially challenging. Most “powerful” modern UI toolkits are web-based in some way, and one of the goals of the project is to provide a solution that uses a native UI library. Some research into appropriate programming languages has been detailed in [kas143-LanguageSelection](#).

1.4 - Plans for Next Week

Plans for Week 2 include further development of the project outline and completion of the Language Selection report showcasing different options regarding development.

Week 2 – W/C: 5th February — Project Outline and Preperation

2.1 - Week's Objectives

This weeks focus is on finishing the project outline and selecting a programming language. By finishing the outline, a development methodology and environment could be established - allowing for the start of development.

2.2 - Completed Tasks

1. Project Outline Completed
 - The project outline has been completed, this document will provide a good framework for what the project sets out to do.
2. Language Selection Document
 - A document was produced weighing up the advantages of different programming languages that could be used in the project. A final decision is yet to be reached.
3. GitHub Repository Created
 - A private GitHub repository has been created to host the source code for the project. It will also host the source files for documentation, including this document.

2.3 - Challenges Faced

Deciding on a programming language is still proving to be difficult. Cursory looks at Python (PyQt) and QtJambi were not promising. In my view, Python's syntax is too simple for a project of this scope, whilst QtJambi seems to not have very active development and setting up a development environment for it proved troubling.

2.4 - Plans for Next Week

Next week, a Requirements Analysis will be produced. This will allow for development to properly start under the Kanban methodology, where each functional requirement is used as a “card” in order to track development.

A final decision regarding a programming language will also have to be made.

Week 3 - W/C: 12th February — Requirements and Development Begins

3.1 - Completed Tasks

1. Final Decision on Programming Language
 - It has been decided that C++ will be the programming language used for this project. The Qt UI Toolkit will also be used.
2. Continuous Integration

3.2 - Plans for Next Week

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Week 4 - W/C: 19th February — Initial Development Complications

4.1 - Completed Tasks

1. Learning Qt (using Documentation)
2. Class Diagram
3. Rewrite of Project Code

4.2 - Challenges Faced

Illness and Qt not compiling on windows bug - address that development is going slower than planned.

Week 5 - W/C: 26th February — FR01 and Gaining Momentum

5.1 - Week's Objectives

This weeks objectives are to complete FR01. Last week and the beginning of this week resulted in a complete change of how the program is structured, so whilst development has been slow (in terms of the completion of Requirements) - it is anticipated that development will speed up significantly going forward.

5.2 - Completed Tasks

1. Database Schema
2. Data Persistence
3. Code Documentation Generation (doxygen)
 - Continuous Integration

Week 6 - W/C: 4th March —

Week 7 - W/C: 11th March — Mid-Project Demo

Week 8 - W/C: 18th March —

Easter Vacation: 23rd March - 15th April

Additional Notes

Week 9 - W/C: 15th April —

Week 10 - W/C: 22nd April —

Week 11 - W/C: 29th April — Submission & Final Demo Prep

11.1 - Additional Notes

Project Report and Technical Work is due to be submitted on: 2024-05-03.

The Final Demonstration will take place between 2024-05-13 and 2024-05-31.