

P-16:Leaderboard Project Plan

March 5, 2025

Project Timeline

This timeline will cover the planning aspect of all tasks within the AUTHENTICATION branch. Each member is expected to contribute 3×45 minutes per week.

0.1 Planning and Design

- Create planning documents for the AUTHENTICATION branch.
 - Create a outline and rough dates for when tasks are estimated to be finished
 - **Deadline:** March 5, 2025
- Design use case diagrams
 - Create draft then create final of the use case diagrams.
 - **Deadline:** March 6, 2025
- Design class structure diagrams.
 - Create a general class structure diagram for classes in AUTHENTICATION.
 - **Deadline:** March 6, 2025
- Create use case descriptions document
 - Identify and provide details to different use cases.
 - **Deadline:** March 6, 2025
- Review and submit documents for iteration 1:
 - Team review, spell checking, format checkin, proofread, then submit to D2L dropbox.
 - **Deadline:** March 6, 2025

Milestones:

- team 6 : : iteration 1: March 7, 2025

0.2 Development and Implementation

- **Objective:** Develop and implement an authentication system to save user data, which includes user name, password, friends, etc.
- **Duration:** March 8, 2025 - April 11, 2025 (Post-iteration 1 to iteration 3 deadline)
- **Key Features:**
 - Create account
 - Login
 - Change username/password
 - Change profile picture
 - Set account status
 - Link email
 - Send friend request
 - Unfriend/block accounts
 - View leaderboards/ranks
 - Log out

The Development and Implementation will be divided into phase: Setup, Core Development, Integration, Testing, and Review. Tasks are assigned to balance workload among all team members.

Phase 1: Setup

- **Duration:** March 8, 2025 - March 12, 2025
- **Goal:** Establish a rough skeleton code and finalize the design for AUTHENTICATION

Tasklist:

- Git Repository Setup
 - **Start Date:** March 8, 2025
 - **End Date:** March 9, 2025
 - **Estimated Time:** 1-2 hours
- Adjust class diagrams
 - **Start Date:** March 10, 2025
 - **End Date:** March 11, 2025
 - **Estimated Time:** 1-2 hours
- Make a sketch of GUI for relevant features
 - **Start Date:** March 11, 2025
 - **End Date:** March 12, 2025
 - **Estimated Time:** 1-2 hours

Milestones:

- Setup complete: March 12, 2025

Phase 2: Core Development

- **Duration:** March 12, 2025 - March 22, 2025
- **Goal:** Finish writing code for Authentication features

Tasklist:

- Implement login page and create account GUI
 - **Start Date:** March 12, 2025
 - **End Date:** March 16, 2025
 - **Estimated Time:** 3-4 hours
- Create methods to parse user info
 - **Start Date:** March 12, 2025
 - **End Date:** March 16, 2025
 - **Estimated Time:** 3-4 hours
- Create a GUI interface for miscellaneous buttons, for example, profile picture.
 - **Start Date:** March 16, 2025
 - **End Date:** March 19, 2025
 - **Estimated Time:** 2-3 hours

Milestones:

- Key features complete: March 25, 2025

Phase 3: Integration

- **Duration:** March 23, 2025 - March 29, 2025
- **Goal:** Link authentication features to GUI

Tasklist:

- Coordinate with other subteams to integrate our classes into theirs
 - **Start Date:** March 23, 2025
 - **End Date:** March 27, 2025
 - **Estimated Time:** 4-5 hours
- Connect code to GUI buttons to add interaction
 - **Start Date:** March 25, 2025
 - **End Date:** March 27, 2025
 - **Estimated Time:** 2-3 hours
- Bug testing and edge cases for GUI elements
 - **Start Date:** March 23, 2025
 - **End Date:** March 29, 2025
 - **Estimated Time:** 3-4 hours

Milestones:

- Finish Integration: March 29, 2025

Phase 4: Testing

- **Duration:** March 30, 2025 - April 6
- **Goal:** Create test cases and spot bugs

Tasklist:

- Create JUnit test cases for all methods in the package
 - **Start Date:** March 30, 2025
 - **End Date:** April 4, 2025
 - **Estimated Time:** 3-4 hours
- Test to see if the information is properly parsed and sending
 - **Start Date:** April 2, 2025
 - **End Date:** April 5, 2025
 - **Estimated Time:** 3-4 hours

Milestones:

- Eliminate all bugs: April 6, 2025

Phase 5: Review

- **Duration:** April 6, 2025 - April 10, 2025
- **Goal:** Make sure everything is operational and ready to submit

Tasklist:

- Update Documentation
 - **Start Date:** April 6, 2025
 - **End Date:** April 6, 2025
 - **Estimated Time:** 1-2 hours
- Code review
 - **Start Date:** April 7, 2025
 - **End Date:** April 8, 2025
 - **Estimated Time:** 2-3 hours

Milestones:

- Submission: April 11, 2025

Final Notes

Start coding on March 8, 2025, the earlier the better. Hold weekly meeting with other team leader working on other features. Hold scrum meetings with own team. Branch early and branch often, and commit frequently to GitLab.