

SFWRENG 3XA3: Development Plan

Team L03G09
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Zhiwei Li(liz342)

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Table 1: Revision History

Date	Developer(s)	Change
2022/2/3	Zhiwei Li	Provide Project Schedule
2022/2/3	Longwei Ye	Add table for meeting plan
2022/2/3	Qiang Gao	Add texts

1 Team Infos

- Team name: SE_3XA3_L03G09
- Team member: Longwei Ye(yel16), Qiang Gao(gaoq20), Zhiwei Li(liz342)

2 Team Meeting Plan

Regular meeting is scheduled at 10:00 p.m. every Thursday. Basic meeting time is 1.5 hours, and additional time can be added for workload.

Table 2: Meeting Shcedule

Date	Meeting Goal
2022/2/3	Complete Development Plan
2022/2/10	Complete Requirements Document
2022/2/17	Setup Proof of Concept Demonstration and Project Revise
2022/2/24	Complete Proof of Concept Demonstration
2022/3/3	Setup Test Plan Ver. 1.0
2022/3/10	Test Plan Revision 0 & Revise Design & Doc materials
2022/3/17	Complete Design & Document Revision 0
2022/3/27	Review Revision 0 Demonstration & setup further workloads
2022/3/31	Prepare for Final Demonstration & Complete Peer Evaluation
2022/4/7	Final Demo Prepare & Divide workloads for Final Documentation
2022/4/10	Complete Final Demonstration

3 Team Communication Plan

- Online chat before meeting for preparation (Clarify requirements, Marking scheme) via SMS applications such as WeChat or Discord.

- Online meeting via Microsoft Team or in-person(preferable at campus) meeting at the scheduled time.
- Documents early editions are developed through google doc.

4 Team Member Roles

- Qiang Gao: Scriptor(records key decisions, insights, action items, and other results, summarizes the meeting)
- Zhiwei Li: Facilitator(manages the meeting process)
- Longwei Ye: Decision Maker(confirm and state the decision so it can be documented before the meeting ends)

5 Git Workflow Plan

- Every team member will create a branch themselves, naming with their macids(e.g. Longwei Ye(yel16) is working on the project via branch “yel16”) and the decision of merging into the “main” branch will be discussed during the team meeting.
- Every documentation will be tagged using the gitlab “tag” features, following the pattern”DocTitle-Rev.#”, as “DocTitle” is the title of the document, and Rev.# stands for the Reversion number for the documents.

6 Proof of Concept Demonstration Plan

6.1 Risks:

- ENew programming language learning(Javascript, Html, Css), familiar with the coding environment.
- Understanding existing GUI and making some adjustments suitable with the current GUI design.
- Testing environment for Javascript should be chosen carefully since we lack Javascript testing experience.

6.2 How to overcome the risks:

- Thorough tutorial for language learning is decided by group members after discussion, and a suitable learning schedule is developed with the project progress.
- Based on the language learning experience and cooperate code reading, the GUI should be understandable and use version control to secure the appropriate modification.
- Some testing frameworks like MochaJS can be chosen, with clear user guidance to develop the testing schema.

7 Technology

- Programming Language: Html, Css, JavaScript
- IDE: VScode, PhpStorm
- Version Control: Git, GitLab
- Documentation Generator: Latex, Doxygen
- Test Framework: MochaJS

8 Coding Style

- All team members following the guideline when writing Html, Css, and Javascript codes:
 - Html & Css: <https://google.github.io/styleguide/htmlcssguide.html>
 - JavaScript: <https://google.github.io/styleguide/jsguide.html>
- When naming local variables, all team members follow the naming pattern “variable_name”.
- All team members use the Doxygen style to add references at the start of each code-block in the project.

9 Project Schedule

For details, please refer ProjectSchedule.pdf at the same folder.

10 Project Review(for Revision 1)

Currently working on Revision 0, will be implemented at Revision 1 stage.