

SWEng - Individual Report

As a member of SWEng Group 3 enterprise I was assigned two roles. My first and primary role was that of QA and Documentation Manager and my secondary role was a Software Engineer/Programmer. The tasks for each of these positions are outlined within the QA Manual. I will cover them in detail within this report:

Quality Assurance and Documentation Manager

The bulk of my work for the SWEng project was done in terms of Documentation and Quality Assurance. The tasks I completed for this role were:

Meeting Minutes: For meetings 4 to 19 I took down all relevant notes during the session and subsequently typed the notes up in LaTeX. The notes were then made available to all group members on the shared Google Drive.

QA Manual: I conducted research into what a QA manual should contain and made the final decision in regards to what should be included. I then delegated work to all group members for what they should write. After completing my own QA section (metrics/tasks/risks) I also added coding methodology/document templates/document standards sections to the manual. I read through and edited all content added by other group members; making sure that it was in line with what I expected from my research. When issues came up I communicated what was wrong clearly with the relevant person and made suggested changes to what they had written. The QA Manual was users ahead of the final submission, I requested all group members read through what had been included before and make changes as needed, I reviewed all changes made and updated the QA Manual accordingly. I also updated; the deliverables section; template section and added the Deputy Financial Manager section

Functional Specification: I conducted research into what a Functional Spec should contain and then presented this information to the group during a meeting. I then delegated tasks to group members to fill the Functional Spec. I myself wrote the supporting text describing the app design and edited the whole document ahead of submission with the Project Manager (Marco). Ahead of the final deadline I updated the Functional Specification with the Software Manager to ensure that it was accurate (user stories have changed due to the Agile nature of the project), this included updating user stories; I also updated the supporting document for the current version of the functional spec, adding and editing in conjunction with the Software Manager future iteration user stories.

Timesheets: I filled in all my timesheets for the project subject to the standards and template defined by the Financial Manager.

Financial Reports 1 & 2: For financial reports 1&2 I assisted the financial manager and other group members in compiling all the data collected within the timesheets and analysing it within an analysis document/spreadsheet.

Quality Assurance Self-Assessment Sheets 1 & 2: As QA manager I chose to conduct two self assessment sheets throughout the project. I researched example assessment sheets used by other companies and wrote template sheets accordingly (sheets 1 and 2 had different questions related to where we were in the development process). After all members of the group had filled in their respective sheets (including myself) I created a report based on how each member responded to the questions. This report was discussed privately between several members and also within team meetings.

HTML Tour: For the HTML tour I wrote about documentation (and the process undergone) produced by group. I also set up the file structure hierarchy and uploaded all documentation correctly named as PDF's. These files were then referenced to within the "Documentation" page of the tour. I also provided sections for the user manual/self assessment sheets/minutes/QA manual/functional spec.

User manual: Myself and Jack Rookes(Software Manager) conducted research into how a User Manual for our product HANDS OFF should be written. We then both contributed equally to producing the user manual, I focused on the description/instructions of how to use the app.

Tender Presentation/Sales Presentation: For both presentations I assisted in the writing of the script and provided feedback during the creation process. I attended both presentations and answered questions in both.

Software Engineer

My contribution to the project from the software side was admittedly smaller than others, and not helped by the fact that Android Studio was used as the IDE and this is not available on University Computers. However, my specific contributions included:

Search functionality: I wrote the string searching algorithm used within the app and assisted Jeremy Servoz with the implementation.

Back button: I made sure all pages within the app were properly coded so that the android back button could be used to navigate, I also added overrides for the menu back button so it behaved in the same manner.

Warning Message: I wrote code that prompted a warning message when the user tried to exit the recipe presentation using either back button.

Daily message: I wrote the code that would make a daily message appear (designed to appear 60% of the time) to the user, prompting them to rate the app or try a recipe.

Presentation Progress: I helped to write the code that allowed the user to progress through the recipe presentation, tapping once to continue to the next slide and twice to go backwards.

Instructional prompt: I wrote the code that provided instructions to the user on how to operate the app. There was also an option that allowed the user to turn these prompts off.

Bug fixing: During programming sessions I sat with other members of the group and assisted them in the debugging of their code. They also helped me, the programming sessions were collaborative.

Retrospective

If I were to start this project again I would:

- Focus on keeping users to their metrics defined in the QA Manual. The 2 Self-Assessment sheets helped but more definitely could have been done.
- Recording meetings would've allowed for more accurate minute taking and would provide a valuable resource for absent members to watch/listen to.
- More programming, I believe that the programming I completed was of a high standard but I definitely feel as if I could have asked for more tasks, instead of just completing the tasks I was assigned.
- Focus more on the Agile and TDD aspects of the programming.