University of Sheffield

Com6103 Team Software Project

Individual Reflection

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0.1 Project Introduction

The project, "Module Delivery Plans", aims to improve and automate the process of collection, verification, and analysis of assessments for the Computer Science Department. During the 10-week development cycle, our team "Gelato" went through every sprints and provided a web application that achieved all the requirements with a consistent user-friendly interface. Everyone could access our project by visiting the ip address of our server.

0.2 What I Did?

As the leader of our team, I've made contributions in several aspects:

- Architecture design I designed the project architecture and offered helps and suggestions to each team member on the division of labour and split our group into 3 subgroups based on separation of concerns.

- Project Management
  I designed the project management framework for our group based on Scrum and divided the whole development cycle into 3 splits. I also acts as Scrum master to hold the planning meeting to design stories together and stand-up meetings to report everyone's progress.

- Back-end Development
  As a member of back-end subgroup, I developed several modules selected from our task board and made the deployment by myself. I also provided helps in the usage of tools such as git, slack and acts as a bridge communicating between different subgroups and merged all branches together.

- Documentation
  I wrote several development documents including interface document, deployment document and specification. I also provided helps and materials in every sprint reports and the final report.

0.3 How I Did It?

All the contribution I made replies on the individual initiative and delegation of responsibilities of each group member. Only be this prerequisite could we established mutual confidence and implement a efficient project management.

With the well-defined project management framework, we designed stories together and pick tasks from task board so that I could know the progress of all tasks and provide helps if needed. The best practices like pair programming and stand-up meeting also played important roles to help me manage the team and produce the expected application.

Finally, the usage of appropriate communication and management tools guaranteed the success of our project. Slack, especially, helped us to record all the documents, shared infor-

mation and the most important, the discussion with advisors.

0.4 What I've Leaned?

I have learned the knowledge of develop a web application with Django framework and have practiced my project management and back-end development skills and gained a deeper understandings. I also learned from Danae about how to process the data and analyze data from the perspective of a data scientist.

0.5 What to Improve?

There are several improvement I could propose:

- For the team management, I could be more proactive to promote our group to meet more often and communicate more often. Many tasks were delayed, blocked and even duplicated for lack of communication.

- For the back-end development, I should design the architecture of back-end before starting to develop. We refactored our codes several times which could be avoided by a pre-defined architecture.