Software Engineering Group Project - 7096A

Semester 1 Week 11 - Group 1

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1   Introduction

Group 1 was assigned Tickets 138 and 146 for the Milestone 2 development leg. Ticket 138 highlighted the degradation of the performance of the Earth Project application when filtering search results while in Radial View. Ticket 146 raised the ineffectiveness of the existing integration testing script amidst the expanding features and functionalities of the Eart Project application. In addition , Group 1 was also tasked with conducting the integration testing of the code deliverables from Milestone 1 and establishing procedures on the effective use of Group's various GitHub repositories.

2   Resources

Group 1 comprised an equal split of 2 Bachelor of Engineering (Software Engineering) students and 2 Master of Software of Engineering students. This provided the Group with approximately 56 hours of available development time per week. This estimate is based on the 8 hours per week coursework commitment that the school expects from each BESE student and 20 hours per week for each MSE students.

3   Task Allocation

For Milestone 2, the distribution tasks amongst the members were based on among other things the hours that each member was expected to commit to the project. As a result, the major Group 1 tasks of investigating Tickets 138 and 146 were assigned to the MSE students Cui (138) and Filimoni (146). The other relatively light but still important tasks were assigned to the BESE students Alex (GitHub procedures) and

George (Milestone 1 Solution Integration). This particular way of distributing the tasks amongst the Group 1 members was considered fair during the planning stage of the Milestone 2.

4   Activity Summary

While each member seemed to have successfully made a serious attempt in their respective tasks, the clear isolation of each Group 1 task prevented any significant collaborative development opportunities within the Group. These collaborative efforts generally provide the added support to properly and thoroughly complete any software development task. However, based on the Group's Milestone 2 achievements, it could be safely assumed that the distribution of tasks was at least fair. (Please refer to the accompanying reports for a detailed and complete description of each development task undertaken by Group 1)

5   Improvements

A further improvement that the Group could adopt as part of its task distribution strategy is to assign each major development task to more than one member. This would help ensure the continuity of effort on each task and be less reliant on the individual effort of each member. This planned strategy would ensure that each significant design and development issue would be seriously considered by more than one group member. The collaborative efforts should produce better outcomes in terms of quality design decisions and robust implementations.

6   Challenges

Given that Milestone 1 was practical orientation for every Group member to the Earth Project, Milestone 2 provided the first real test for each Group 1 member. Based on the Group's performance during the Milestone 2 sprint, there were no significant deficiency detected in terms of communication or development skills. Despite being under resourced (compared the other groups), the Group had managed to produce comparable results. This certainly bodes well for the Groups̀ performance and with the valuable experiences from Milestones 1 and 2, the Group could anticipate the same if not better results for Milestone 3.

7   Skill Set Analysis

During the course of this Project, the Group would be aiming to expose all its members to the various types of software development tasks that the Earth Project provides. In order to accomplish this, the Group had drawn up a skill set matrix wherein each membersássigned tasks in each Milestone is assessed and classified accordingly. This would certainly enhance each Group member's skill set through direct exposure and ensure the successful attainment of Group's development tasks in later milestones.

The following is a snapshot of the matrix at the completion of Milestone 2.

Skill Set	AE	FL	GS	XC
Db Admin				+
Plugins				
Documentation	+	+		
Testing		+	+	
Configuration Management	+			
Interface Design				

8   Conclusions

Group 1 managed to do further investigation on both Tickets 138 and 146 and the relevant codes could be obtained from the GitHub repository. The integration testing of Milestone 1 source codes was successfully carried out and posted on the GitHub repository. The relevant GitHub procedure manuals were also produced and made available to all Group members through the GitHub repository.

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