**Introduction to Software Engineering Practice (INFO9117)**

Semester 1, 2015

**Assignment 2**

**Group Project Initial report**

**Project Team Members Names and Sign-off:**

|  |  |
| --- | --- |
| **Name** | **Signature** |
| **Fathimath Mohamed** | **F. Mohamed** |
| **Lei Zheng** | **L . Zheng** |
| **Ivanilda Joiane Couto Rodrigues** | **Ivanilda J. C. Rodrigues** |

**Assignment 2 - Initial Project Report**

**1.Project overview**

This project is going to extent the functions of a Flask web application based on user stories given each week. Due to lack of details information about this project, a specific project scope could not be provided.

**2. Project Team**

|  |  |  |
| --- | --- | --- |
| **Name** | **Email** | **Mobil** |
| Ivanilda J. Couto Rodrigues | icou6806@uni.sydney.edu.au | +61 452 205 080 |
| Fathimath Mohamed | fmoh6538@uni.sydney.edu.au | +61 452 099 606 |
| Lei Zheng | lzha5646@uni.sydney.edu.au | +61 415 226 858 |

**3. Work progress**

Each meeting report will be updated into the Trello INFO9117 - Assignment 2 group. The report will consist of the minutes for the meeting, the tasks which were was achieved, the tasks that needs to be sorted and also allocation of the work that is still pending to each group member.

**3.1 Work Break Down**

Distribution would be analysed according to each users story. The branch would be divided by several branching styles or patterns, such as Centralized, Branch for each feature, branch for each release and so on. The more comprehensive guide will be use when user story is given.

**3.2 Work Assign**

Based on Team Velocity Estimate, each task will be equally divided between the 3 members of the group. At the moment the velocity of the team is 30 points (each member will be allocated 10 points). Points are assigned for the difficulty of a task and the number calculation is base on the Fibonacci Sequence.

The sequence calculation is: **Team velocity = Total points/Sprint**

**4. Communication Plan**

Since the project is small and only involves few people (3), the communication would be held in a simplistic way. Moreover, as it is a student project the information security and privacy issues would not be considered. All the communication will flow in cross platform base. Slack, Mobile, and meetings would be held frequently during the project development for issues and confirmations of problems and solutions. Google Drive is a cloud based editing tool, a hub like environment that allow the members to perform all related communication on this platform. Trello is used as a whiteboard like checking list to manage the project. All the checkpoint will be listed and modified along the project development need. The code sharing is strictly managed within GitHub.

## 4.1 Activity Schedule

The agile project methodology would be used during the whole project development in which the aim is to deliver the most user requirements per sprint. This sprint would last 2 weeks.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Activity Name** | **Periodicity** | **Duration** | **Location** | **Start time** |
| **Project planning** | One per Project | On Demand | SIT Building Lab Room 118 | Monday  7pm |
| **Release planning** | One per Release | On Demand | SIT Building Lab Room 118 | Monday  7pm |
| **Sprint** | Fortnightly | 14 days | SIT Building Open Plan 110 Area | Depend on individual |
| **Sprint planning** | Fortnightly, in the beginning of sprint | On Demand | SIT Building Open Plan 110 Area | Tuesday  11am |
| **Sprint Scrum** | Daily | 30 Mins | Online:  Slack chats  Trello activities/tasks management | 12pm |
| **Sprint review** | One per Sprint | On Demand | SIT Building Open Plan 110 Area | Thursday  11am |
| **Sprint retrospective** | One per Sprint, at the end of Sprint | On Demand | SIT Building Open Plan 110 Area | Thursday  after Sprint review |

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## 4.2 Communication Tool

|  |  |  |  |
| --- | --- | --- | --- |
| **Platform**  **(group name)** | **Purpose** | **Invitation Action** | **Homepage Link** |
| ***Google Drive***  (info9117 file) | Written Assignment/Report | Contact Ivanilda J. C. Rodrigues for invitation group | <https://accounts.google.com/SignUp> |
| ***Slack***  (info9117 group) | Group Chat | Contact anyone in the group for invitation | <https://slack.com/signin> |
| ***Trello***  (Info 9117 - Assignment 2) | Project Management | Contact anyone in the group for invitation | <https://trello.com/login?returnUrl=%2Flogged-out> |
| ***Github***  (Info 9117) | Coding and Version Control | Contact Lei Zheng for group for invitation | <https://github.com/join> |
| ***Mobile*** | Please refer to #1 section. | | |

**5. Work management Plan**

As the team will be constantly making changes in the code, Git and GitHub will be used as the version control system. Parallel development is enabled by branching from the Master Branch (inside the central repository INFO9117GROUPASSIGNMENT). After making changes in your local code and committing it, this code should be pushed into the Github central repository, merged, in which will allow the members to access the latest version and also make changes on it.

|  |  |  |  |
| --- | --- | --- | --- |
| **Tool Name** | **Functionality** | **Download page** | **Signup Link** |
| ***Git*** | ‘Git is a [free and open sourc](http://git-scm.com/about/free-and-open-source)e distributed version control system designed to handle everything from small to very large projects with speed and efficiency.’ (Git, 2015, Homepage, para. 1). | Download the latest version of Git for your own system:  <http://git-scm.com/downloads> | NA |
| ***GitHub*** | ‘Online project hosting using Git’ (Github, 2015, Homepage). | NA | <https://github.com/> |
| ***PyCharm*** | Integrated Development Environment (IDE) which is used to program using python language. | Download the pycharm version for your system from: <https://www.jetbrains.com/pycharm/download/> | NA |

**6. Quality Assurance Plan**

To ensure the quality of the coding produced it has to meet all the requirements of the user story and also it should pass the acceptance test. Unit test coding would be written before the user story implementation, and once the user story requirements has been met the coding would be tested by the acceptance test.

In order for the smooth overall development process, peer review (searching for coding improvement) will be periodically implemented.

**7. Issue Log**

The way to identify the difficulties would be, as the members go along implementing the user stories and unit/acceptance tests. The problems could be noted down and then, first of all, try to individually solve it and if that does not work, ask team members for help. If still the problem remains unsolved, the group could look at external resources (friends, internet research, etc) or ask for tutor support (Wai Wong).

**8. Contingency Plan**

If any major conflict occurs the members are responsible to arrange an immediate meeting and sort the problem out. Extra hours of external assists might be required from the tutor.

**Reference**

Git (2015). Homepage. Retrieved April 04, 2015, from http://git-scm.com/

GitHub(2015). Homepage. Retrieved April 04, 2015, from /https://github.com/home