***Project plan:***

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**1.**     **Introduction**

The main purpose of project is to do dynamic testing the program considering us as a professional programmer. It will allow us to be familiar in future working environment, more importantly in a group. Everything should be planned and divide task equally in the team members.

**2.**     **Project Organisation**

Team members:

* **Ju Hun Lee (Author)** – Responsible for the whole process of developing system as well as management of the project and team members.
* **Kamal Raj Kandel (Reviewer) –** Responsible for reviewing at developing process, testing and reviewing of the project system.
* **Amar Adhikari (Mediator) –** Responsible for analyzing, reviewing and documenting of a project throughout its lifecycle as well as assisting other members.

*\* Communicating with each other members by using WhatsApp and Email for information sharing and efficiency of task division.*

Project Sponsor:

* **Dr Frank Moisiadis (Sponsor) –** Sign off at every step of the project and monitor the progress of the project. Ensure whether the direction of project is heading right and provide feedback and advice during the project.

*\* Communicating with a project team, giving feedback and monitor the process by using WhatsApp, E-mail, and regular meeting every week*

**3.**     **Project practices and measurements**

**I.**       **Initial Phase:**

The task is to correct the errors in the programs and give suggestions for better improvement.

**II.**      **Coding Standards**

JAVA,

**III.**    **Development Environment**

Desktop(PC)/Laptop (Running Window or MacOS) and software development tools (IntelliJ, CheckStyle, GitHub).

**IV.**   **Documentation tools**

Every documentation that has been updated will be backed-up and recorded in the project folder. Commenting and annotation of the coding will be short and tidy and recorded where appropriate. Most likely, documentations will be recorded in Microsoft Word 2016 format and update records will be in Excel Format. Guide Documentation for users will be developed in HTML and be uploaded on the website.

**V.**     **Test Tools**

Code testing will be done every step. It will be done by developing computer with using committing tools (e.g. IntelliJ) instantly whenever updated and be tested on different computer running different OS and also other devises (such as smart phone and tablet PC).. plugins like CheckStyles and FindBugs will be used. CheckStyles help in variable naming, parameters naming, method naming/extension ,construct extension and so on, FindBugs help to find bugs and correct it.

**VI.**   **Version control tools**

Up to 5 versions of the code set will be backed up anytime changes been made so that coding fault or other multiple problem can be easily recovered. Each back up will be stored in locked portable hard drive and in personal computer for security purpose.

**4.**     **Project milestones and objectives**

|  |  |  |  |
| --- | --- | --- | --- |
| **Iteration phase** | **Primary Objectives** | **Scheduled start or milestone** | **Target velocity** |
| **Initiation**  **Week 8** | 1. Get together with the team members 2. Create documents necessary as listed below   3. Team Meeting Information  Final Project Plan   1. Setting up repository. 2. Discuss weekly plan | 12/09/2016  -  18/09/2016 | 3  Hours |
| **week 9** | 1. Discuss weekly Plan   Integration test was completed and reviewed.  Happy day scenario was completed.  Test cases and scripts were completed.   1. Perform integration test 2. Finish happy day scenario 3. Complete test cases and test scripts | 19/09/2016  -  25/09/2016 | 15hours |
| **Week 10**  **Iteration Finish** | 1. Complete Restricted scenario.  2. complete unit testing.  3. update project plan.  4.Assignment submission with necessary documents. | 26/09/2016  -  02/10/2016 | 12 hours |

**5.**     **Deployment**

Activities involved in software deployment:

**i.**          **Requirements analysis (software requirements spec, project environment, etc.)**

-       Define the scope of the project clearly

-       Identify and understand business needs and priorities

-       Gather all possible requirements for the project (register in GITHUB, software requirements, hardware requirements,

**ii.**          **Implementation**

* User Approval and Guidelines
* Train Users
* Implement the tested system
* Review the impact of the implemented system

**iii.**          **Testing and evaluation**

-       Test codes and review it

-       Run fixed codes and give suggestions

**iv.**          **Release and activate (or install)**

-       Troubleshooting

**v.**          **Maintenance**

* Fix reported or found bugs and errors

**6.**     **Lessons learned**

* **Planning a project in real business level:**

. I have also learned how important planning step of the project should be planned clear and informative enough. As I believe that this will enhance my level of planning project skill, it will be helpful to complete the project successfully.

* **Communication between team members:**

Interact with co-workers (team members) is beneficial to improve quality and efficiency of work. Completing own portion of work and get feedback from other team members were definitely helpful for the successful assignment. This process taught me how to work as a team.

* **Managing team as a team leader:**

Fair task division was really hard point to do at the first start, but it will surely make the work easier as my management skill improve. I have learned how to find out each team member’s strength and knowledge and how to deploy them with appropriate job. Furthermore, I will learn more about supervising team members and task completion monitoring.

* **Schedule control:**

Scheduling working time and dates were definitely one of the hardest thing in this project plan. I have learned that I need to communicate enough and confirm it with team members to obey schedule as much as possible for more accurate scheduling.