**Test-Driven Development Project Plan**

**Team: Head start**

**Hrishikesh Kadam**

**Project Name:**

Test Driven Development (TDD)

**Project Stakeholders:**

* **Team members:** Hrishikesh Kadam, Kanav Gandhi ,Shalin Shroff ,Tosaporn Kaewmaneesakul, Swamy
* **Project guide:** Prof. Russell Smith
* **Project audience:** CMPE 203 Thursday evening batch

**Project Description:**

Test driven development is said to be is described as "get something working now and perfect it later." Test-driven development (TDD) also called test-driven design, is a method of software development in which unit testing is repeatedly done on source code. After each test, refactoring is done and then the same or a similar test is performed again. The process is iterated as many times as necessary until each unit is functioning according to the desired specifications. Test-driven development is part of a larger software design paradigm known as Extreme programming (XP).

**Project scope:**

The main purpose of the project is to understand what Test driven development is so that someone not familiar with the concept would know it .The project includes the explanation of the topic ,the steps involved in the development cycle ,the development styles as well as the benefits and limitations The project also explains the concept based on few mocks and integration tests.

**Project schedule summary:**

The most crucial task after the project was given was to decide the schedule. Thus the schedule is decided in team meeting including the task allotment among team members.

The Project Schedule is as shown below:

|  |  |  |
| --- | --- | --- |
| **TASK TO BE CARRIED OUT** | **HOURS** | **DUE DATE** |
| General Discussion about the topic | 2 | 9/27/2009 |
| Identifying Tasks | 3 | 10/4/2009 |
| Finalize the scope of the project and browse for presentation template | 2 | 10/11/2009 |
| Allocation of individual tasks and finalizing presentation template | 2 | 10/18/2009 |
| Information gathering | 2 | 10/25/2009 |
| Drafting information | 1 | 11/01/2009 |
| Finalizing data to include | 1 | 11/08/2009 |
| Team Status Meeting to prevent schedule slippage | 1 | 11/09/2009 |
| Prepare slides for individual work | 2 | 11/15/2009 |
| Team meeting to review, cope with changes and consolidate material | 2 | 11/16/2009 |
| Preparation of rough draft of presentation | 2 | 11/20/2009 |
| Team Inspection and creation of final presentation | 2 | 11/25/2009 |
| Mock Presentation | 1 | 11/29/2009 |
| Final Class presentation | ¼ | 12/03/2009 |

The estimation for task assigned to me (Test Driven Development Cycle) is as shown below.

* Gathering TDD data - 9 hours
* Complete analysis of TDD data - 12 hours
* Understanding current technologies and comparing them with TDD – 4 hours
* Detail study of TDD core principles – 6 hours
* Learning the use of TDD – 7hours
* Preparation of PowerPoint presentation – 2 hours

**Risk Management Plan:**

* We will search for more information as per requirements .If something is wrong with information collected or source we collected is not reliable so we have some thing backup to use in the presentation
* Also, we will ensure that every team member has knowledge of what the others are working on. This is done because, suppose someone is not able to attend the final presentation, then the others would have adequate knowledge in taking over the responsibility of presenting the missing persons part.
* Finally, we will have a mock presentation session to ensure that we stick to the time constraints.

**Communication Plan:**

* We created a Yahoo group “headstart\_fall2009” to exchange any material that we came across while researching. This is also the medium we use to exchange mails. We try to avoid sending mails to individuals and prefer sending it to the group so that everyone is aware of any issues or the progress made by individuals

**Reference:**

1) Information Technology Project Management by Jack Marchewka p.