**3.1 Project Plan**

E-commerce business have an evolving life cycle and hence we need to have a proper traceability matrix built over the period of the software development, a robust project plan and an effective Software Development Life Cycle. Thinking about all these criteria and keeping the current industry growth, we decided to go with a combination of scrum and agile methodology. According to the plan, we decided to have a phone or web meeting bi-weekly to analyze our work and discuss our milestones achieved.

One of the main reason to choose agile software development for our project was time-restriction and velocity required for project completion. In agile, the requirements gathering, design, development and testing all go hand in hand, it would be easier for us to perform the job with this methodology. It helps in adaptive planning, evolutionary development, and early delivery and encourages rapid and flexible response to change.

Scrum is a part of agile but is more of iterative and incremental agile software development framework for managing the development. Since the team is very small, each of the individual will equally play a role of the scrum team member and carry it forward till the end.

**3.1 Scrum Team**

Team consisted of three people only so we decided to start of the work with making a schedule and dividing each of the tasks linked with a deadline of submission. We decided to use Google Drive for the co-ordination and sharing of our work across the team. Below is the table describing our work and responsibilities. Documentation part was done by each of the member in their respective expertise.

Table 3.1.1

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Name | Role | Email |
| 1 | Dipti Bhosale | Developer | 87114.bhosale@students.itu.edu |
| 2 | Shruti Punyamurthula | Data Admin | 87872.punyamurthula@students.itu.edu |
| 3 | Vivek Vyas | Developer | 87923.vyas@students.itu.edu |

**3.2 Sprint Schedule**

In Agile methodology, sprints are a way to finalize on the requirements, focus on design and development and track down the progress. Sprints are typically from one week up to four weeks. We started with a free sprint schedule where the deadlines were not decided at the initial level to a more robust sprint schedule where we started on deciding and finalizing the requirements and track down on the progress. The initial phase of finalizing the project plan and going forward itself took quiet a long time to settle down. So we started with a sprint schedule from 1st February. The schedule for it is as follows:

**Sprint 1:**

Table 3.2.1

|  |  |
| --- | --- |
| February 1, 2016 | Brainstorming |
| February 6, 2016 | Finalizing the project |
| February 12, 2016 | Requirements gathering and documentation |
| February 18, 2016 | Finalizing the requirements |
| February 21, 2016 | Writing specification |

**Sprint 2:**

Table 3.2.2

|  |  |
| --- | --- |
| February 24, 2016 | Building the backbone of the documentations |
| March 2, 2016 | Sprint Planning, Design Sessions |
| March 6, 2016 | Designing the document |
| March 9, 2016 | Dividing the responsibility |
| March 15, 2016 | Start with the documentation |

**Sprint 3:**

Table 3.2.3

|  |  |
| --- | --- |
| March 18, 2016 | Gathering the Functional Requirements |
| March 21, 2016 | Refining the requirements to suit business needs |
| March 23, 2016 | Non-Functional Requirements Gathering |
| March 26, 2016 | Use case diagrams discussion |
| March 28, 2016 | Bug Cycle discussion |

**Sprint 4:**

Table 3.2.4

|  |  |
| --- | --- |
| March 29, 2016 | Class Diagrams |
| March 30, 2016 | Sequence Diagrams |
| April 2, 2016 | State Diagrams, Wireframes |
| April 4, 2016 | Django Environment setup |
| April 6, 2016 | Entity Relationship Diagrams |

**Sprint 5:**

Table 3.2.5

|  |  |
| --- | --- |
| April 7, 2016 | Development Started |
| April 9, 2016 | Developed the Admin page |
| April 10, 2016 | Built Signup Admin page for users |
| April 12, 2016 | Discussion on the version control setup |
| April 15, 2016 | Pushing the admin apps to real environment |

**Sprint 6:**

Table 3.2.6

|  |  |
| --- | --- |
| April 17, 2016 |  |
| April 19, 2016 |  |
| April 21, 2016 |  |
| April 23, 2016 |  |
| April 24, 2016 |  |

**Sprint 7:**

Table 3.2.7

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |