## **Lab 3 : Software Development Process**

**Team:**

Phanith Dodda - 016725280

Sourya Prateek Jammula - 016702062

Venkata Subramanya Sri Raviraj Indraganti - 016254823

Harish Marepalli - 016707314

## **Background**

Your group is the up-and-coming startup team. You are funded 100k USD to develop the following product.

Product: A geo target mobile application that will locate the cheapest restaurant around you with a certain type of food.

**Questions**

1. The agile process being used for software development?

Agile Methodology : In agile development we break projects into small development cycles called sprints. During the sprint development team works on creating a functional version of the software.

**Scrum** and **Kanban** are the agile subsets that we are going to use for software development. According to this framework the entire team is assigned with tasks which they are going to work on during the sprint cycle.

1. Present the details of your agile process. (e.g. when you will have your standup, demo, meetings, etc. What meetings / tools to use, etc.)

Sprint Planning Meeting - On the first day of sprint, The team gathers for this meeting to plan for the upcoming sprint. Team identifies the tasks they need to complete in the sprint.

Standup Meeting - Status call - Daily - 10am

Sprint Cycle - Two weeks

Sprint Demo - In this meeting the team showcases the working model of the software to the stakeholders

Sprint Review - Get feedback from stakeholders, which can be implemented next sprint.

The purpose of the meeting is to review and determine the status of the work implemented in the current sprint:

● has been done

● has not been done

● work that has been added

● And work removed from the sprint

Retrospective Meeting - Every Sprint End

● What went well?

● What did not go well?

● What could have been done better?

**JIRA, Kanban board, Burndown chart to be used to track progress**

**Tooling:**

-We'll use project management software (e.g., Jira) for tracking tasks and sprint progress.

-Communication will primarily occur through Slack for quick updates and discussions.

-For code version control, we'll use Git and host our repositories on platforms like GitHub or GitLab.

**Zoom for Meeting**

**Excel track sheet to note blockers/specific issues.**

1. A list of five to ten development items for the geo target mobile application

1. Welcome page of the app, logo and intro page - showing who we are - our mission & introduction

2. UI asking the customer to search for his preferred cuisine

3. Setting up of database to store the restaurants currently added

4. Backend to return list of restaurants in ascending order of distance from customer

5. Layout of the app - showing restaurants with appropriate images

6. API to add new restaurant to the app

7. Integration with Google maps

8. ML model to learn customer behavior => example: a person who prefers Chinese cuisine also likes Thai cuisine!

9. Recommendation system -> suggests food to customer based on ML model

10. Premium version of app -> perform faster search and don't show ads

1. With the agile process you are using, decide who is going to work on what.

Phanith Dodda - Welcome page and basic theme of the app, logo and intro page, Design and architecture of the app

Harish Marepalli - UI’s - asking the customer to search for his preferred cuisine and returning mock data in a user friendly format.

Raviraj - Setting up databases, writing methods to retrieve data and save data.

Sourya Prateek Jammula - Unit test cases and manual testing for the frontend and backend

1. For each member, describe what you are going to present in the next agile demo meeting.

Phanith Dodda - Welcome page, logo and basic theme.

Harish Marepalli - UI for taking customer input(cuisine) and returning a list of restaurants.

Raviraj - Postman to test backend API’s(mock data entry and retrieval).

Sourya - Unit test case coverage document (should be above 95%).