

## Project Planning Phase

### Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	25 October 2023
Team ID	592691
Project Name	Project – Restaurant Recommendation System
Maximum Marks	8 Marks

#### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint - 1	Data Collection and Preprocessing	US1	Scrape restaurant data from various sources	5	High	Prateek
		US2	Clean and preprocess scraped data	3	High	Prateek
Sprint - 1	Database Setup and Management	US3	Design database schema	5	High	Devina
		US4	Implement database setup	3	High	Devina
Sprint - 1	Feature Engineering	US5	Extract relevant features	5	Medium	Prateek
Sprint - 2	Model Development	US6	Research machine learning models	5	High	Prateek
		US7	Begin training initial models	3	High	Prateek
Sprint - 2	API Development	US8	Design API endpoints	5	High	Devina

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint - 3	Model Development	US9	Evaluate model performance	5	High	Prateek
Sprint - 3	Frontend Development	US10	Design user interface	5	High	Devina
		US11	Implement frontend	5	High	Devina
Sprint - 4	Frontend Development	US12	Complete frontend development	8	High	Devina
Sprint - 4	Testing and Quality Assurance	US13	Conduct unit and integration tests	5	High	Prateek
Sprint - 5	Model Development	US14	Refine machine learning models	8	High	Prateek
	API Development	US15	Complete API development	5	High	Devina
Sprint - 6	Testing and Bug Fixes	US16	Comprehensive testing	8	High	Devina
Sprint - 6	Deployment	US17	Deploy system on cloud	5	High	Prateek

### Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint - 1	21	6 Days	14 Oct 2023	19 Oct 2023	20	19 Oct 2023
Sprint - 2	13	6 Days	20 Oct 2023	25 Oct 2023	13	25 Oct 2023
Sprint - 3	20	6 Days	26 Oct 2023	31 Oct 2023	20	31 Oct 2023
Sprint - 4	13	6 Days	1 Nov 2023	6 Nov 2023	13	6 Nov 2023
Sprint - 5	13	6 Days	7 Nov 2023	12 Nov 2023	13	12 Nov 2023
Sprint - 6	13	3 Days	13 Nov 2023	15 Nov 2023	13	15 Nov 2023

### Velocity:

Sprint 1: 20 story points completed

Sprint 2: 13 story points completed

Sprint 3: 20 story points completed

Sprint 4: 13 story points completed

Sprint 5: 13 story points completed

Sprint 6: 13 story points completed

Total story points completed =  $20 + 13 + 20 + 13 + 13 + 13 = 92$  story points  
Total number of completed sprints = 6 sprints

Average velocity = Total story points completed / Total number of completed sprints

Average velocity =  $92 / 6 = 15.33$  story points per sprint

## Burndown Chart:

