# Citizen AI – Agile Project Planning Document

Date: 15 February 2025

Team ID: LTVIP2025TMID32100

Project Name: Citizen AI – Intelligent Citizen Engagement Platform

Maximum Marks: 5 Marks

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members | Status |
| Sprint-1 | Data Collection & Preprocessing | USN-1 | As a developer, I can collect public datasets for government services | 2 | High | Your Name | Completed |
| Sprint-1 |  | USN-2 | As a system, I can load structured/unstructured data into the backend | 1 | High | Team Member 2 | Completed |
| Sprint-1 |  | USN-3 | As a system, I can handle missing values in the dataset | 3 | High | Team Member 3 | Completed |
| Sprint-1 |  | USN-4 | As a system, I can preprocess categorical variables for model training | 2 | Medium | Team Member 4 | Completed |
| Sprint-2 | Sentiment Analysis Engine | USN-5 | As a system, I can analyze sentiment of citizen feedback using a pre-trained model | 5 | High | Your Name | Completed |
| Sprint-2 | Model Testing | USN-6 | As a tester, I can verify the sentiment classification accuracy | 3 | High | Team Member 2 | Completed |
| Sprint-2 | Deployment Frontend | USN-7 | As a user, I can interact with the system via HTML pages | 3 | Medium | Team Member 3 | Completed |
| Sprint-2 | Backend Deployment with Flask | USN-8 | As a system, I can serve AI models and frontend pages using Flask | 5 | High | Team Member 4 | Completed |

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

### Project Tracker Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed | Sprint Release Date (Actual) | Sprint Status |
| Sprint-1 | 8 | 5 Days | 10 Feb 2025 | 14 Feb 2025 | 8 | 14 Feb 2025 | Completed |
| Sprint-2 | 16 | 5 Days | 15 Feb 2025 | 19 Feb 2025 | 16 | 19 Feb 2025 | Completed |

### Velocity Calculation

Total Story Points Completed: 8 (Sprint-1) + 16 (Sprint-2) = 24

Number of Sprints: 2

Team Velocity = 24 / 2 = 12 Story Points per Sprint

Average Velocity per Day (Sprint = 5 Days): 12 / 5 = 2.4 Story Points/Day

### Burndown Chart

A burndown chart shows remaining work over time. It starts at 24 story points and decreases as the team completes tasks across 10 days (2 sprints).

Use tools like Visual Paradigm or Excel to visualize this.

## References

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/burndown-charts

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/