

## Project Planning Phase

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

Date	16 Jun 2025
Team ID	LTVIP2025TMID59708
Project Name	Citizen AI – Intelligent Citizen Engagement Platform
Maximum Marks	5 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	USN-1	As a developer, I want to collect and load datasets from available sources	3	High	
Sprint-1	Data Preprocessing	USN-2	As a developer, I want to handle missing and categorical values in the dataset	3	High	
Sprint-2	Model Testing	USN-4	As a developer, I want to test the model accuracy and performance	3	High	
Sprint-3	UI/Frontend	USN-5	As a developer, I want to create the user interface using HTML/CSS	3	Medium	
Sprint-3	Deployment	USN-6	As a developer, I want to deploy the model and UI using Flask	5	High	
Sprint-3	API Integration	USN-7	As a developer, I want to build REST APIs for frontend-backend communication	3	High	

Sprint-3	Input Validation	USN-8	As a developer, I want to validate form inputs to prevent bad or empty submissions	2	Medium	
Sprint-2	Database Setup	USN-9	As a developer, I want to set up a database to store user queries and responses	3	High	
Sprint-1	Script Automation	USN-10	As a developer, I want to automate data cleaning using a Python script	2	Medium	

#### 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	8	6 Days	03 Jun 2025	09 Jun 2025	8	05 Feb 2025
Sprint-2	11	6 Days	10 Jun 2025	16 Jun 2025		
Sprint-3	11	6 Days	17 Jun 2025	26 Jun 2025		

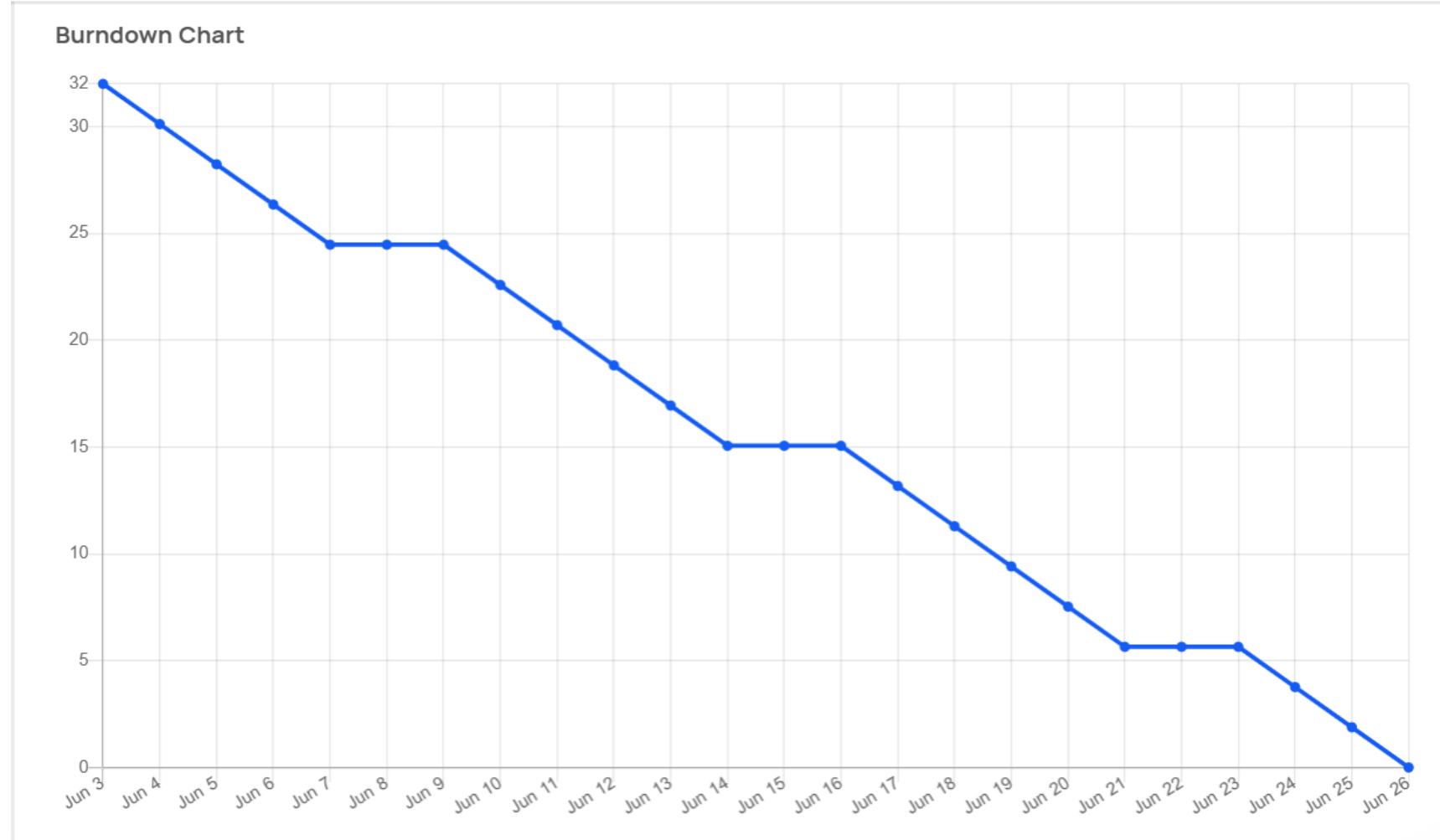
#### Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

## Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.



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

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

**Reference:**

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

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

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