

## Project Planning Phase

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

Date	21 June 2025
Team ID	LTVIP2025TMID60682
Project Name	Sustainable Smart City Assistant Using IBM Granite LLM
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
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	
Sprint-1		USN-2	As a user, I will receive a confirmation email once I have registered.	1	High	
Sprint-2		USN-3	As a user, I can register for the application through Facebook.	2	Low	
Sprint-1		USN-4	As a user, I can register for the application through Gmail.	2	Medium	
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password.	1	High	
Sprint-2	Login	USN-6	As a user, I can reset my password using the "Forgot Password" feature.	2	Medium	
Sprint-2	Dashboard	USN-7	As a user, I can see personalized eco-tips and alerts on my dashboard after logging in.	3	High	
Sprint-3	Dashboard	USN-8	As a user, I can track my sustainability score or eco-behavior history.	3	Medium	

Sprint-3	Dashboard	USN-9	As a user, I can submit feedback or suggestions about city services.	2	Low	
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#### 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	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	<i>To be updated</i>	<i>To be updated</i>
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	<i>To be updated</i>	<i>To be updated</i>
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	<i>To be updated</i>	<i>To be updated</i>

#### 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.