## **🧩 Project Planning**

## **– Sustainable Smart City Assistant**

### **🗓 Date: 25 June 2025**

### **👥 Team ID: LTVIP2025TMID37298**

### **📌 Project Name: Sustainable Smart City Assistant**

### **🎯 Maximum Marks: 5 Marks**

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task Description** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Registration & Login | USN-1 | As a user, I can register with email and password confirmation | 2 | High | All |
| Sprint-1 | Registration & Login | USN-2 | As a user, I receive a confirmation email after registering | 1 | High | All |
| Sprint-1 | Registration via Gmail | USN-3 | As a user, I can register via Gmail OAuth | 2 | Medium | Dev A |
| Sprint-2 | KPI Dashboard | USN-4 | As a user, I can view real-time air/water quality KPIs | 3 | High | Dev B |
| Sprint-2 | Policy Summarizer | USN-5 | As a user, I can upload and get a summary of a smart city policy using AI | 4 | High | Dev A |
| Sprint-3 | Feedback Form | USN-6 | As a user, I can submit civic feedback or complaints | 3 | Medium | Dev B |
| Sprint-3 | Eco-Tips Generator | USN-7 | As a user, I get eco-friendly suggestions based on location | 3 | Low | Dev A |
| Sprint-4 | Report Generator | USN-8 | As a user, I can download a PDF report of KPI and suggestions | 4 | Medium | All |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Start Date** | **End Date** | **Story Points Completed** | **Actual Release** |
| Sprint-1 | 5 | 6 Days | 01 July 2025 | 06 July 2025 | 5 | 06 July 2025 |
| Sprint-2 | 7 | 6 Days | 07 July 2025 | 12 July 2025 | 7 | 12 July 2025 |
| Sprint-3 | 6 | 6 Days | 13 July 2025 | 18 July 2025 | 6 | 18 July 2025 |
| Sprint-4 | 4 | 6 Days | 19 July 2025 | 24 July 2025 | 4 | 24 July 2025 |

## **📈 Velocity Calculation**

* Average Velocity = Total Story Points / Number of Sprints  
   = (5 + 7 + 6 + 4) / 4  
   = **5.5 points per sprint**
* Daily Velocity (for 6-day sprint): 5.5 / 6 = **~0.92 story points/day**

## **📉 Burndown Chart (Concept Description)**

A burndown chart will track the remaining story points over the sprint days. You can visualize it using tools like:

* [Visual Paradigm Burndown Tool](https://www.visual-paradigm.com/scrum/scrum-burndown-chart/)
* [Atlassian Jira Burndown Tutorial](https://www.atlassian.com/agile/tutorials/burndown-charts)