

Project Planning Phase

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

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|---------------|----------------------------------|
| Date | 18 February 2026 |
| Team ID | LTVIP2026TMIDS57846 |
| Project Name | Civil Engineering Insight Studio |
| Maximum Marks | 5 Marks |

Product Backlog & Sprint Schedule (4 Marks)

| Sprint | Functional Requirement (Epic) | User Story No | User Story / Task | Story Points | Priority | Team Members |
|----------|-------------------------------|---------------|--|--------------|----------|--------------|
| Sprint-1 | Registration | USN-1 | As a user, I can register using email & password | 2 | High | Member A |
| Sprint-1 | Registration | USN-2 | As a user, I receive confirmation email after registration | 1 | High | Member B |
| Sprint-1 | Registration | USN-4 | As a user, I can register using Gmail | 2 | Medium | Member A |
| Sprint-1 | Login | USN-5 | As a user, I can login using email & password | 1 | High | Member C |
| Sprint-1 | Dashboard | USN-6 | As a user, I can view dashboard after login | 3 | High | Member B |
| Sprint-2 | Complaint Management | USN-7 | As a customer, I can submit a complaint | 5 | High | Member A |
| Sprint-2 | Complaint Management | USN-8 | As an agent, I can view assigned complaints | 3 | High | Member C |
| Sprint-2 | Complaint Management | USN-9 | As an agent, I can update complaint status | 3 | High | Member B |
| Sprint-3 | Admin Management | USN-10 | As an admin, I can add agents | 3 | High | Member A |
| Sprint-3 | Admin Management | USN-11 | As an admin, I can assign customers to agents | 4 | High | Member B |
| Sprint-3 | Admin Management | USN-12 | As an admin, I can view user list | 2 | Medium | Member C |
| Sprint-4 | Reporting & Security | USN-13 | As an admin, I can view system reports | 4 | Medium | Member A |
| Sprint-4 | Security | USN-14 | As a system, passwords are securely stored | 3 | High | Member B |
| Sprint-4 | UI Enhancement | USN-15 | As a user, I see responsive UI design | 3 | Medium | Member C |

Sprint Tracker Table (4 Marks)

| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed | Sprint Release Date (Actual) |
|----------|--------------------|----------|-------------------|---------------------------|------------------------|------------------------------|
| Sprint-1 | 20 | 6 Days | 15 Feb 2025 | 20 Feb 2025 | 20 | 20 Feb 2025 |
| Sprint-2 | 20 | 6 Days | 22 Feb 2025 | 27 Feb 2025 | 18 | 28 Feb 2025 |
| Sprint-3 | 20 | 6 Days | 01 Mar 2025 | 06 Mar 2025 | 20 | 06 Mar 2025 |
| Sprint-4 | 20 | 6 Days | 08 Mar 2025 | 13 Mar 2025 | 19 | 14 Mar 2025 |

Velocity Calculation

Given:

- Sprint Duration = 10 Days
- Team Velocity = 20 Story Points per Sprint

Average Velocity (AV)

$$AV = \text{Total Story Points} / \text{Sprint Duration}$$

$$AV = 20 / 10 = 2 \text{ story points per day}$$

Average Velocity = 2 story points per day

Burndown Chart Explanation

A Burndown Chart shows:

- X-Axis → Time (Days)
- Y-Axis → Remaining Story Points

Example for Sprint-1 (20 Story Points)

| Day | Remaining Points |
|-------|------------------|
| Day 1 | 20 |
| Day 2 | 18 |
| Day 3 | 15 |
| Day 4 | 10 |
| Day 5 | 5 |
| Day 6 | 0 |