# Initial Project Planning

| Date | 02 February 2026 |
|------|------------------|
| Team ID | LTVIP2026TMIDS66183 |
| Project Name | Civil Engineering Insight Studio |
| Maximum Marks | 4 Marks |

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

Use the below template to create a product backlog and sprint schedule

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|--------|-------------------------------|-------------------|-------------------|--------------|----------|--------------|
| Sprint-1 | Project Setup & Infrastructure | USN-1 | Configure the project environment by installing required software tools, libraries, and frameworks needed for developing the Civil Engineering Insight Studio. | 1 | Medium | Suhitha, Aswini |
| Sprint-1 | Data Collection& Preprocessing | USN-2 | As a developer, I want to collect and preprocess civil engineering project data (loads, materials, dimensions) so that it can be used for analysis and | 2 | High | Gowtham, Niteesh |

| Sprint | | | | | | |
|---|---|---|---|---|---|---|
| | | | insight generation. | | | |
| Sprint-2 | Analysis Module Integration | USN-3 | As a developer, I want to integrate structural safety, material optimization, and cost analysis modules into the web application to provide engineering insights. | 2 | High | Aswini, Suhitha |
| Sprint-2 | Error Handling & Input Validation | USN-4 | As a user, I want to receive proper error messages when incorrect or incomplete project data is entered so that I can correct it easily | 2 | High | Suhitha, Aswini, Niteeshwar Reddy, Gowtham |
| Sprint-3 | Project Setup & Infrastructure | USN-1 | Configure the project environment by installing required software tools, libraries, and frameworks needed for developing the Civil Engineering Insight Studio. | 1 | Medium | Suhitha, Aswini |

| Sprint | | | | | | |
|---|---|---|---|---|---|---|
| Sprint-3 | Data Collection& Preprocessing | USN-2 | As a developer, I want to collect and preprocess civil engineering project data (loads, materials, dimensions) so that it can be used for analysis and insight generation. | 2 | High | Gowtham, Niteesh |
| Sprint-4 | Analysis Module Integration | USN-3 | As a developer, I want to integrate structural safety, material optimization, and cost analysis modules into the web application to provide engineering insights. | 2 | High | Aswini, Suhitha |