

Project Planning Phase

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

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|---------------|---------------------------|
| Team ID | LTVIP2026TMIDS87645 |
| Project Name | Prosperity Prognosticator |
| 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 | Data Collection | USN-1 | As a user, I can gather startup data from datasets | 2 | High | Team |
| Sprint-1 | Data Collection | USN-2 | As a user, I can load collected data into the system | 1 | High | Team |
| Sprint-1 | Data Preparation | USN-3 | As a user, I can handle missing values in the dataset | 3 | High | Team |
| Sprint-1 | Data Preparation | USN-4 | As a user, I can create required fields for analysis | 3 | Medium | Team |
| Sprint-1 | Data Preparation | USN-5 | As a user, I can handle inconsistent data values | 3 | Medium | Team |
| Sprint-2 | Data Visualization | USN-6 | As a user, I can view bar chart visualizations | 2 | High | Team |
| Sprint-2 | Data Visualization | USN-7 | As a user, I can view pie chart visualizations | 2 | Medium | Team |
| Sprint-2 | Data Visualization | USN-8 | As a user, I can view line chart visualizations | 2 | Medium | Team |

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|----------|-------------------------------|-------------------|--|--------------|----------|--------------|
| Sprint-2 | Data Visualization | USN-9 | As a user, I can view map-based visualizations | 4 | Medium | Team |
| Sprint-2 | Dashboard | USN-10 | As a user, I can view predictions on dashboard | 5 | High | Team |
| Sprint-2 | Story Development | USN-11 | As a user, I can view analytical insights | 5 | High | Team |

Project Tracker, Velocity & Burndown Chart: (4 Marks)

| Sprint | Story Points | Duration | Sprint Start Date | Sprint End Date | Story Points Completed | Sprint Release Date |
|----------|--------------|----------|-------------------|-----------------|------------------------|---------------------|
| Sprint-1 | 12 | 6 Days | 01 Oct 2022 | 06 Oct 2022 | 12 | 06 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 07 Oct 2022 | 12 Oct 2022 | 20 | 12 Oct 2022 |

Velocity Calculation

Velocity is calculated using the formula:

Velocity = Total Story Points Completed / Number of Sprints

- Total Story Points = 12 + 20 = **32**
- Number of Sprints = **2**

Velocity = 32 / 2 = 16 Story Points per Sprint

Average Velocity (AV)

Assuming a **10-day sprint duration**:

$AV = \frac{\text{Sprint Duration}}{\text{Velocity}} = \frac{10}{16} = 0.625$

Average Velocity = 2 Story Points per Day