Project Planning Phase

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

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| Date | 29 June 2025 |
| Team ID | LTVIP2025TMID50749 |
| Project Name | Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using  Tableau |
| Maximum Marks | 5 Marks |

**Product Backlog & Sprint Schedule**

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| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
| Sprint- 1 | Data Acquisition & Preparation | USN-1 | As a data analyst, I can identify and acquire relevant housing market datasets (e.g., sale prices, property features, location data) so that I have the raw material for analysis. | 3 | High | Borra Jaswanth Kumar |
| Sprint- 1 | Data Acquisition & Preparation | USN-2 | As a data analyst, I can clean and preprocess the acquired datasets (handle missing values, correct inconsistencies) so that the data is ready for Tableau. | 5 | High | Chinta Divya |
| Sprint- 1 | Initial Visualization Setup | USN-3 | As a Tableau user, I can connect Tableau to the cleaned dataset so that I can start building visualizations. | 2 | High | Gudi Maruthi |
| Sprint- 2 | Core Visualizations | USN-4 | As a data analyst, I can create a scatter plot showing sale price vs. square footage so that I can identify basic correlations. | 3 | Medium | Borra Hemanth |

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| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
| Sprint- 2 | Core Visualizations | USN-5 | As a data analyst, I can design a bar chart to show average sale prices by neighborhood/zip code so that I can compare different areas. | 3 | Medium | Gudi Maruthi |
| Sprint- 3 | Advanced Visualizations | USN-6 | As a data analyst, I can implement a heat map to visualize property density and price distribution so that I can see geographical trends. | 4 | Medium | Borra Jaswanth Kumar |
| Sprint- 3 | Advanced Visualizations | USN-7 | As a data analyst, I can create interactive filters for property features (e.g., number of bedrooms, bathrooms) so that users can explore specific criteria. | 4 | Medium | Chinta Divya |
| Sprint- 4 | Dashboard & Storytelling | USN-8 | As a presenter, I can combine key visualizations into an interactive Tableau dashboard so that I can present a comprehensive overview. | 5 | High | Gudi Maruthi |
| Sprint- 4 | Dashboard & Storytelling | USN-9 | As a presenter, I can create a Tableau Story to guide the audience through the key insights and trends so that the findings are easily understood. | 3 | High | Borra Hemanth |
| Sprint- 4 | Documentation & Presentation | USN-10 | As a team member, I can prepare the project documentation and presentation materials so that the project can be effectively communicated. | 2 | High | All Team Members |

**Sprint Tracker**

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| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Total Story Points (Planned) | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed | Sprint Release Date (Actual) |
| Sprint-1 | 10 | 1 Days | 27 June 2025 | 27 June 2025 | 20 | 27 June 2025 |
| Sprint-2 | 6 | 1 Days | 28 June 2025 | 28 June 2025 | 20 | 28 June 2025 |
| Sprint-3 | 8 | 1 Days | 29 June 2025 | 29 June 2025 | 20 | 29 June 2025 |
| Sprint-4 | 10 | 1 Days | 30 June 2025 | 30 June 2025 | 20 | 30 June 2025 |

**Velocity**

Velocity measures the amount of work a team can complete in a single sprint.

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):

Velocity = Story Points Completed / Sprint Duration

