SmartBridge Virtual Internship - Project Planning Document

Project Title: Visualizing Housing Market Trends – An Analysis of Sale Prices and Features

Date: 29/06/2025

# 1. Product Backlog, Sprint Planning & Estimation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sprint | Epic | User Story No. | User Story / Task | Points | Assigned To |
| Sprint-1 | Data Setup | USN-1 | As a user, I can upload housing data in CSV format | 3 | Shaik Mohammad Shoyab |
| Sprint-1 | Data Cleaning | USN-2 | As a developer, I can clean and preprocess housing data in Tableau | 4 | Shaik Abdul Aleem |
| Sprint-1 | Field Creation | USN-3 | As a user, I can create calculated fields like TotalAreaSqft | 2 | Shaik Abdul Hameed |
| Sprint-1 | Price Binning | USN-4 | As a user, I can create SalePriceBin for grouping houses | 2 | Raviteja Reddicherla |
| Sprint-2 | Data Visualization | USN-5 | As a user, I can create sheets with charts: price vs features | 5 | Shaik Mohammad Shoyab |
| Sprint-2 | Dashboard Creation | USN-6 | As a user, I can build an interactive Tableau Dashboard with filters | 3 | Shaik Abdul Aleem |
| Sprint-2 | Dashboard Styling | USN-7 | As a user, I can style the dashboard for better readability and navigation | 2 | Shaik Abdul Hameed |
| Sprint-3 | Storytelling | USN-8 | As a user, I can create a Tableau Story showing insights step by step | 2 | Raviteja Reddicherla |
| Sprint-3 | Flask Integration | USN-9 | As a developer, I can embed Tableau dashboard into a Flask web app | 4 | Shaik Mohammad Shoyab |
| Sprint-3 | Embed Testing | USN-10 | As a user, I can test and review the embedded dashboard UI | 2 | Shaik Abdul Hameed |
| Sprint-4 | Documentation | USN-11 | As a team, we can prepare final project documentation | 3 | Shaik Abdul Aleem |
| Sprint-4 | Demo Preparation | USN-12 | As a team, we can prepare and rehearse a full demo walkthrough | 2 | Raviteja Reddicherla |
| Sprint-4 | Bug Fixing / Final QA | USN-13 | As a team, we can test the full system and fix visual/logic bugs | 2 | Shaik Mohammad Shoyab |

# 2. Sprint Schedule & Velocity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sprint | Story Points | Duration | Start Date | End Date | Points Completed |
| Sprint-1 | 11 | 4 Days | 11 June 2025 | 14 June 2025 | 11 |
| Sprint-2 | 10 | 4 Days | 15 June 2025 | 18 June 2025 | 10 |
| Sprint-3 | 7 | 4 Days | 19 June 2025 | 22 June 2025 | 7 |
| Sprint-4 | 7 | 4 Days | 23 June 2025 | 26 June 2025 | 7 |

Velocity = Total Story Points / Duration = 35 points / 16 days = 2.19 points/day (avg)

# 3. Burndown Chart

A burndown chart tracks remaining work (story points) across time. It helps monitor progress across each sprint. This project followed 4 sprints, each closing with full completion of tasks.