

## Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau

DATE	28-02-2026
TEAM ID	LTVIP2026TMIDS90693
PROJECT NAME	Visualizing Housing market Trends: An Analysis of Sale prices and Features Using Tableau
MAXIMUM MARKS	4 MARKS

### Chapter 5

#### Project Planning Scheduling

##### 5.1 Project Milestones and Tasks

The **Project Milestones and Tasks** section outlines the structured timeline and major deliverables required to successfully complete the housing market visualization project.

It ensures proper planning, tracking, and timely completion.

##### Milestone 1: Project Planning & Requirement Analysis

 Duration: Week 1

##### Tasks:

- Define project objectives
- Identify stakeholders (buyers, investors, agents)
- Conduct brainstorming
- Create Empathy Map & Customer Journey Map
- Define functional and non-functional requirements
- Prepare problem-solution fit analysis

##### Deliverables:

- Project proposal
- Requirement document
- Design thinking documentation

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## ○ Milestone 2: Data Collection

 Duration: Week 2

 Tasks:

- Collect housing dataset (CSV/Excel)
- Verify data completeness
- Identify required fields (Sale Price, Bedrooms, Location, etc.)
- Understand data structure

## ○ Milestone 3: Data Cleaning & Preparation

 Duration: Week 3

 Tasks:

- Remove duplicates
- Handle missing values
- Standardize location names
- Convert date formats
- Create calculated fields: ○ Price per Sq. Ft ○ Growth Rate ○ ROI (if applicable)

Tools used:

- Microsoft Excel
- Tableau Desktop

## ○ Milestone 4: Dashboard Development

 Duration: Week 4–5

 Tasks:

- Create Market Overview dashboard
- Build Feature Impact visualizations
- Develop Location & Investment insights

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- Add interactive filters
- Design KPI indicators
- Apply consistent formatting and layout

### ○ Milestone 5: Testing & Validation

 Duration: Week 6

 Tasks:

- Verify data accuracy
- Test filter functionality
- Validate calculations
- Ensure dashboard performance
- Collect feedback and refine design

### ○ Milestone 6: Deployment & Documentation

 Duration: Week 7

 Tasks:

- Publish dashboard using Tableau Public (optional)
- Prepare final report
- Create presentation slides
- Document methodology and architecture

Milestone	Key Focus	Deliverable
Planning	Requirements & Design	Proposal & Documentation
Data Collection	Dataset preparation	Raw dataset
Data Cleaning	Data pre-processing	Clean dataset
Development	Dashboard creation	Tableau workbook
Testing	Validation & refinement	Final dashboard
Deployment	Publishing & reporting	Final report

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## Example

The project was executed in six structured milestones, beginning with requirement analysis and ending with deployment and documentation. Each phase included specific tasks such as data collection, preprocessing, dashboard development, testing, and publishing. This structured milestone approach ensured systematic progress, quality control, and timely project completion.

### ○ Project Initiation Tasks

- Define project title and objectives
  - Identify target users (buyers, investors, agents)
  - Define project scope
  - Conduct brainstorming session
  - Prepare problem statement
  - Define success criteria
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### ○ Requirement Analysis Tasks

- Identify functional requirements (trend analysis, feature comparison, filters)
  - Identify non-functional requirements (performance, usability)
  - Create Empathy Map
  - Create Customer Journey Map
  - Define problem–solution fit
  - Document solution requirements
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### ○ Data Collection Tasks

- Collect housing dataset (CSV/Excel)
- Verify data accuracy
- Identify required data fields:
- Sale Price

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- Sale Date
- Bedrooms
- Bathrooms
- Square Footage
- Property Type
- Location
- Review dataset structure

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### ○ Data Cleaning & Preparation Tasks

Tools used:

- Microsoft Excel
- Tableau Desktop

Tasks:

- Remove duplicate records
- Handle missing values
- Standardize location names
- Convert date formats
- Create calculated fields:
- Price per Sq. Ft
- Yearly Growth Rate
- ROI (if applicable)
- Validate cleaned dataset

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### ○ Data Analysis Tasks

- Perform trend analysis (year-wise price changes)
- Analyse feature impact (Bedrooms, Bathrooms, Sq. Ft)
- Conduct location comparison
- Identify high-growth areas
- Calculate summary statistics (AVG, MEDIAN, COUNT)

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- Identify correlations

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### ○ Final Deliverables

#### Deliverables

- Tableau Workbook (.tab)
- PDF Report
- Presentation Slides (PowerPoint)
- Executive Summary

