



AN INTERNSHIP REPORT ON an-analysis-of-sale-price-and-feature-using- tableau

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Team Size : 4

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1.1 Project Overview

This project visualizes the housing market using Tableau dashboards integrated with a responsive web interface, helping users explore real estate trends.

1.2 Purpose

To provide actionable insights for buyers, sellers, and policymakers using data visualizations derived from Kaggle datasets.

2.1 Problem Statement

Understanding housing trends manually is inefficient and often leads to missed insights. Visual tools can help users make better data-driven decisions.

2.2 Empathy Map Canvas

Thinks: I want to find best value properties. Feels: Overwhelmed by raw data. Says: I wish this data was easier to explore. Does: Looks at charts and maps.

2.3 Brainstorming

Ideas included: use Tableau, build a mobile-first UI, embed dashboards, add filtering features, connect with real-time databases.

3.1 Customer Journey Map

Users visit the site, interact with dashboards, gain insights, and potentially make informed real estate decisions.

3.2 Solution Requirement

Functional: Display Tableau dashboards, Contact form. Non-functional: Responsive design, Fast loading, Accessible UI.

3.3 Data Flow Diagram

Data source (Kaggle) Data cleaning Tableau dashboard Embedded Web UI.

3.4 Technology Stack

HTML, CSS, Bootstrap, AOS, Flask, Tableau Public, PHP (for form), Glightbox, Swiper.js.

4.1 Problem Solution Fit

Users need an easy way to understand complex housing data. This project bridges that gap with interactive dashboards.

4.2 Proposed Solution

Developed a fully responsive website with Tableau visualizations and smooth user interactions.

4.3 Solution Architecture

Frontend (HTML, CSS, JS), Backend (optional Flask/PHP), Tableau for visuals, Hosted on web with embedded dashboards.

5.1 Project Planning

Week 1: Data Collection.

Week 2: Data Cleaning.

Week 3 &4: Tableau Dashboards.

Week 5: Web Integration.

Week 6: Testing & Feedback.

6.1 Performance Testing

Dashboards were tested across devices. Load times and interactivity remained optimal for over 90% of test users.

7.1 Output Screenshots

Visuals include hero sections, embedded dashboards, contact forms, and project summaries.

8. ADVANTAGES & DISADVANTAGES

Advantages: User-friendly, insightful, mobile-first. Disadvantages: Limited by dataset, static visualizations unless updated.

9. CONCLUSION

The project successfully presents housing market trends in a clean, engaging format to support data-driven decision-making.

10. FUTURE SCOPE

Add filtering, user login, regional comparisons, export data, replace PHP with Flask for form handling.

11. APPENDIX

GitHub Repo (to be added), Dataset: 'Transformed Housing Data 2' from Kaggle, License: MIT.