Data Collection and Preprocessing Phase

Date	21 JUNE 2025
Team ID	LTVIP2025TMID51486
Project Title	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	2 Marks

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

Data Collection Plan Template

Section	Description
Project Overview	**Visualizing Housing Market Trends: -** This project, **"Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau,"** aims to explore and analyze housing market trends using the **Transformed Housing Data 2** dataset from Kaggle. The objective is to identify key factors influencing house prices, such as location, size, number of bedrooms, bathrooms, floors and basement area. By leveraging **Tableau**, the project will create interactive dashboards, story, bar chart, histogram, summary dashboard to visualize patterns, compare regional price variations, and gain insights into how different features impact house sale prices. The analysis will help in making data-driven decisions for buyers, sellers, and real estate professionals.

	Objectives: 1. **Understand Sale Price Trends** – Identify price distribution and variations based on property features. 2. **Feature Analysis** – Examine factors influencing house prices, such as **area, bedrooms, and location**. 3. **Market Insights** – Discover trends and patterns to assist **buyers, sellers, and real estate professionals**. 4. **Data-Driven Decision Making** – Use visualizations to interpret market conditions effectively.
Data Collection Plan	The Data is collected from the "KAGGLE" **Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau** Link: https://www.kaggle.com/datasets/rituparnaghosh18/transformed-housing-data-2
Raw Data Sources Identified	Transformed Housing Data 2 from KAGGLE. This dataset contains **21,609** house sale records with various attributes such as **sale price, number of bedrooms, square footage, location, and additional features**. The data has been pre-processed and transformed for analytical purposes. There are a total of 31 columns, out of which Sale Price can be supposedly taken as a dependent variable. The other variables are different features, locations and date, etc. regarding the houses.

Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
Transformed Housing Data 2	This dataset contains 21,609 house sale records with details such as price, area, number of bedrooms, and other property features.	Kaggle Dataset Link	CSV	10 MB	Public