

**Project Development Phase**  
**Model Performance Test**

Date	30 June 2025
Team ID	LTVIP2025TMID59588
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	

**Model Performance Testing:**

Stage	Actions & Tools	Objectives
1. Data Collection & Understanding	<ul style="list-style-type: none"><li>- Review dataset fields: Sale_Price, Bedrooms, Bathrooms, Area, Renovation info, Zipcode Groups, etc.</li><li>- Clean and format in Excel/MySQL</li></ul>	Ensure quality, understand variable significance
2. Data Preprocessing	<ul style="list-style-type: none"><li>- Bin numerical features (e.g., Price, Age of House)</li><li>- Create calculated fields (e.g., Price per Sqft, Renovated Status)</li><li>- Derive meaningful groupings (e.g., Zipcode_Group)</li></ul>	Enable intuitive filtering, meaningful comparisons
3. Dashboard Planning	<ul style="list-style-type: none"><li>- Sketch layout (filters on side/top, charts in grid)</li><li>- Map visuals to questions (e.g., "Which areas have the highest renovated house prices?")</li></ul>	Define clear goals and user flow
4. Visualization Building in Tableau	<ul style="list-style-type: none"><li>- Use bar/line charts for trend over time</li><li>- Bubble/map views for geographic distribution</li><li>- Filters: Zipcode, Features, Renovation</li></ul>	Communicate patterns, spatial insights
5. Story Integration	<ul style="list-style-type: none"><li>- Create Tableau Story to guide users: from Overview → Deep Dive → Insights</li><li>- Add captions to explain visual intent</li></ul>	Enhance narrative, support user understanding
6. Performance Testing	<ul style="list-style-type: none"><li>- Test responsiveness, filter logic</li><li>- Ensure tooltips and legends work</li><li>- Optimize load times</li></ul>	Maximize usability and engagement
7. Export & Feedback	<ul style="list-style-type: none"><li>- Enable export features (PNG, PDF, share link)</li><li>- Add feedback prompts or embed survey links</li></ul>	Promote shareability, gather improvement input