

Performance Testing – Product Placement Analysis Project

Date	31 January 2026
Team ID	LTVIP2026TMIDS24931
Project Name	ToyCraft Tales: Tableau's Vision into Toy Manufacturer Data
Maximum Marks	4 Marks

Performance Testing – ToyCraft Tales: Toy Manufacturer Analysis Project

Objective

To test the performance, responsiveness, and reliability of the Tableau dashboard and story while applying filters and loading multiple visualizations, and to verify smooth integration with the Flask web application.

Performance Testing Parameters

1. Filter Utilization Testing

Filters tested:

- Year
- State

Result:

- Filters updated all charts successfully.
 - The dashboard responded quickly to filter selections.
 - No lag or incorrect data rendering was observed.
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2. Visualization Load Testing

Total Visualizations:

- Multiple visualizations included in the dashboard (Line chart, Bar chart, Map, Pie chart, Top 10 chart, etc.)

Result:

- All graphs loaded correctly without noticeable delay.
 - The dashboard rendered properly in Tableau Desktop and Tableau Public.
 - Visualizations displayed accurate data after loading.
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3. Calculated Field Testing

Measures used:

- Number of Manufacturers
- Index (where applicable)

Operations performed:

- $\text{SUM}(\text{Number of Manufacturers})$
- $\text{COUNT}(\text{Index}) / \text{SUM}(\text{Index})$ (for distribution analysis)

Result:

- All calculations were executed correctly.
 - No errors were observed in computed values.
 - The results matched the expected values from the dataset.
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4. Stress Testing (Multiple Filter Combination)**Test Case:**

- Selected multiple filters together (e.g., Year = 2010–2016 and State = California / Texas / New York)

Result:

- The dashboard updated correctly for all selected filter combinations.
 - Visualizations remained accurate and consistent.
 - Performance remained stable without crashes or incorrect outputs.
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Final Outcome

The Tableau dashboard and story performed efficiently with good response time and stable behavior under different filter conditions. The integration with the Flask web application worked successfully, making the system reliable and suitable for demonstration and analytical use.