

# FUNCTIONAL AND PERFORMANCE TESTING

## Performance Testing Document

Date	28 June 2025
Team ID	LTVIP2025TMID47490
Project Name	iRevolution: A Data-driven Exploration of Apple's iPhone Impact in India using Tableau
Maximum Marks	4 Marks

**Project Title:** *iRevolution: A Data-driven Exploration of Apple's iPhone Impact in India using Tableau*

**Tool Used:** Tableau Desktop / Tableau Public

**Tested By:** B Hemasree

**Testing Date:** June 11 – June 13, 2025

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### ✔ Objective of Performance Testing

To ensure the Tableau dashboards are:

- Functionally correct
- Optimized for performance
- Responsive on different devices (PC, mobile)
- Easy to use with filters and interactions

### ✔ Test Scenarios & Results

Test Case	Expected Outcome	Actual Outcome	Status
Load Dashboard (PC/Desktop)	Loads in under 5 seconds	Loaded in ~3 seconds	✔ Pass
Load Dashboard (Mobile View)	Adjusts layout & shows key visuals properly	Optimized layout, visible charts	✔ Pass
KPI cards display correct values	Average Price, Total SalePrice, Ratings appear correctly	All KPIs calculated accurately	✔ Pass
Filters (e.g., by Rating or Model)	Filter results update visuals instantly	Filtered visuals update instantly	✔ Pass
Tooltip Functionality	Hover shows details for each mark/point	All tooltips working as expected	✔ Pass
Chart Interactivity (Click to Highlight)	Click highlights related visuals or segments	Interactivity works well	✔ Pass

Test Case	Expected Outcome	Actual Outcome	Status
Model Specification Table readability	Table columns clearly visible with scroll if needed	Fully readable and organized	✓ Pass
Export/Download as PDF	PDF exports without layout issues	Exported with correct layout	✓ Pass
Dashboard Responsiveness (Zoom In/Out)	Charts adapt properly without overlap	Responsive layout confirmed	✓ Pass
Tableau Public Link Access	Public users can view and interact with dashboard	Link accessible and functional	✓ Pass

## Performance Insights

- Dashboard loads quickly due to well-structured data and optimized number of charts per page.
- KPIs are placed at the top for easy glance.
- No performance lags observed during filter use.
- Mobile responsiveness works well with simplified layout on small screens.
- Using fewer complex joins in dataset improved rendering time.

## Suggestions for Improvement

Area	Suggestion
Large Dataset Scaling	Consider Tableau Data Extract (.hyper) format if scaling
Storytelling	Include narrative captions for each dashboard view
Mobile Optimization	Use fewer filters per page to avoid crowding

## ✓ Conclusion

The dashboard is fully functional, visually appealing, and performs well on all devices tested. It is ready for final presentation and stakeholder use.