



# Product Requirements and Specification Document

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## Project Name

TableauTrend - Tableau Sales Trend Analyzer

## Description

TableauTrend is an educational Tableau dashboard designed to analyze and visualize sales trends over time. The dashboard will utilize line and area charts to provide clear, interactive insights into sales data, supporting learning objectives in data analytics.

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## 1. Objectives

Objective	Description
Visualize Sales Trends	Display sales data over time using line and area charts
Enable Interactive Exploration	Allow users to filter and drill down into sales data
Support Educational Use	Provide a clear, intuitive interface for learning data analytics

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## 2. Target Users

User Type	Description
Students	Learning data analytics and visualization
Educators	Teaching sales trend analysis
Analysts (Entry)	Exploring basic sales data trends

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## 3. Functional Requirements

ID	Requirement
FR1	Import sales data (CSV/Excel) into Tableau
FR2	Display total sales over time using a line chart
FR3	Display sales breakdown by category/region using area charts
FR4	Enable time-based filtering (e.g., by year, quarter, month)
FR5	Allow selection/filtering by product category or region
FR6	Provide tooltips with detailed sales information on hover
FR7	Ensure dashboard is visually clear and suitable for educational purposes

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## 4. Non-Functional Requirements

ID	Requirement
NFR1	Dashboard loads within 3 seconds with sample data
NFR2	Compatible with Tableau Desktop (latest version)
NFR3	Uses only built-in Tableau features (no extensions)
NFR4	Follows accessibility best practices

## 5. Data Requirements

Data Element	Description	Example
Date	Date of sale	2024-01-15
Sales Amount	Numeric value of sales	1500
Product Category	Category of product sold	"Books"
Region	Sales region	"North America"

## 6. User Stories

ID	As a...	I want to...	So that...
US1	Student	See sales trends over time	I can learn about trend analysis
US2	Educator	Filter data by category/region	I can demonstrate data slicing
US3	Analyst	Hover over data points for details	I can understand specific values

## 7. Dashboard Layout

+-----+   [Title: Sales Trend Analyzer]     [Filters: Date Range   Category   Region]   +-----+   [Line Chart: Total Sales Over Time]   +-----+   [Area Chart: Sales by Category/Region Over Time]   +-----+   [Legend] [Tooltips on Hover]   +-----+
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## 8. Success Criteria

Criteria	Metric/Description
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Data import and visualization	Sales data loads and displays correctly
Interactivity	Filters and tooltips function as intended
Educational clarity	Layout is intuitive for new users
Performance	Dashboard loads within 3 seconds

## 9. Constraints & Assumptions

- Only Tableau Desktop features to be used
- Sample sales dataset will be provided
- No custom scripts or third-party plugins

## 10. Milestones

Milestone	Description	Due Date
Data Preparation	Clean and format sample dataset	Week 1
Initial Dashboard Build	Create basic charts and layout	Week 2
Interactivity Features	Add filters and tooltips	Week 3
Review & Finalization	QA and stakeholder feedback	Week 4

## 11. Acceptance Criteria

- Dashboard displays correct sales trends with sample data
- All filters and tooltips work as specified
- Layout is clear and suitable for educational use
- No errors or performance issues on Tableau Desktop

## 12. Appendix

### Sample Data Structure:

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Date,Sales Amount,Product Category,Region
2024-01-15,1500,Books,North America
2024-01-16,2000,Electronics,Europe
...
```

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