



Product Requirements and Specification Document (PRD)

Project Name

EduTrack - Student Performance Dashboard

Description

EduTrack is a Tableau dashboard designed to visualize student grades, attendance, and performance trends for an educational institution. The dashboard enables users to compare different classes or subjects using interactive parameters.

1. Objectives

Objective	Description
Visualize Key Metrics	Display grades, attendance, and performance trends clearly
Enable Comparisons	Allow users to compare classes or subjects via parameters
Support Data-Driven Decisions	Facilitate insights for educators and administrators
Ensure Usability	Provide an intuitive, interactive dashboard experience

2. Stakeholders

Role	Responsibility
Product Owner	Define requirements, approve delivery
Developers	Implement Tableau dashboard
Data Analysts	Prepare and validate data
Educators/Admins	End users, provide feedback

3. Functional Requirements

ID	Requirement
FR1	Import student data (grades, attendance, class/subject info)
FR2	Display overall and individual student performance metrics
FR3	Visualize attendance rates per class/subject
FR4	Show performance trends over time (e.g., by term, month)
FR5	Enable parameter-based comparison between classes or subjects
FR6	Provide filtering by class, subject, date range, and student



FR7	Allow export of dashboard views (PDF, image)
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4. Non-Functional Requirements

ID	Requirement
NFR1	Dashboard loads within 5 seconds
NFR2	Compatible with Tableau Desktop and Server
NFR3	Responsive layout for desktop and tablet
NFR4	Data privacy: no personally identifiable info

5. Data Requirements

Data Element	Description
Student ID	Unique, anonymized identifier
Class/Subject	Name or code
Grade	Numeric or letter grade
Attendance	Present/absent status, date
Date	Date of record

6. Dashboard Specifications

6.1 Layout

- **Header:** Institution name, dashboard title
- **Filters/Parameters:** Class, subject, date range, student
- **Main Visuals:**
 - Grades distribution (bar/box plot)
 - Attendance trend (line chart)
 - Performance over time (line/area chart)
 - Comparative view (side-by-side or overlay)
- **Export/Download Button**

6.2 Interactivity

- Dynamic filtering and parameter selection
- Hover tooltips for detailed data
- Drill-down to individual student or class level

7. User Stories



ID	As a...	I want to...	So that...
US1	Educator	View class performance trends	Identify areas needing attention
US2	Administrator	Compare subjects using parameters	Allocate resources effectively
US3	Data Analyst	Export dashboard views	Share insights with stakeholders

8. Acceptance Criteria

- Dashboard displays grades, attendance, and trends for all classes/subjects
- Users can filter and compare data using parameters
- Visualizations update dynamically based on selections
- Data is anonymized and secure
- Export functionality works as specified

9. Technology Stack

Component	Technology
Dashboard	Tableau
Data Source	CSV, Excel, or DB
Hosting	Tableau Server/Desktop

10. Milestones

Milestone	Target Date
Data Preparation	Week 1
Initial Dashboard Design	Week 2
Interactivity/Parameters	Week 3
User Testing	Week 4
Final Delivery	Week 5

11. Risks & Mitigations

Risk	Mitigation
Incomplete data	Validate and clean data upfront
Performance issues	Optimize data extracts, visuals
User adoption	Provide training, documentation



12. Appendix

Sample Data Schema

StudentID	Class	Subject	Grade	Attendance	Date

A001	10A	Math	85	Present	2024-01-10
A002	10A	Math	78	Absent	2024-01-10
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