

Statement of Work

Visualisation of Student Scores-ScoreLens

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Project Description

ScoreLens is a web-based platform designed to visualize and analyse student performance through interactive charts and graphs. This platform will allow professors to upload grades, which will then be processed and displayed to students. Key features include:

- Interactive grade charts that expand or magnify on hover for deeper engagement.*
- Grade comparison with the class average and visualizing anomalies like high or low performers.*
- Admin features such as joining or leaving classes and managing grade updates.*
- Student requests for grade changes via the platform.*
- Displaying important statistics like class averages, highest, and lowest scores.*

This tool will help students understand their academic performance and identify areas for improvement, while professors can assess class-wide trends to improve teaching strategies.

Project Overview

- Target customers**

Our product is aimed for students and professors to analyze and interpret student scores. Students can track their strengths, areas of improvement and see where they stand in class. Professors can identify patterns to enhance teaching strategies.

- WHO (statement of the need or opportunity)**

There is a need for an intuitive method to analyze student performance, allowing students and professors to make data-driven decisions. A visualization of scores provides a clear

understanding of academic trends helping students improve their learning and assisting professors in refining their teaching strategies.

- *ScoreLens is a web-based student performance visualization platform*
- *THAT allows students to track their academic progress through interactive charts and enables professors to analyze class-wide performance trends for improved teaching strategies.*
- *UNLIKE traditional spreadsheet-based grading systems or static report cards, which provide limited insights and lack interactivity,*
- *OUR PRODUCT offers dynamic, visually engaging data representations with interactive features, real-time grade updates, and comparative analytics, making academic performance analysis intuitive and insightful.*

Key features

- *Provide a login/signup portal that has to be approved by authorities*
- *Develop a user-friendly website for grade visualization.*
- *The platform will feature interactive charts and graphs, where components magnify or expand when hovered over, allowing users to engage with the data more dynamically.*
- *Ensure secure access to student data*
- *Allow grade comparison with the rest of the class (average, anomalies, etc)*

Key activities

- Define user needs and project scope, scalability*
- Create visually appealing interface (UI/UX)*
- Database in the backend to store student data and implement API endpoints for data to be fetched and displayed*
- Data processing and visualisation using PowerBI*
- Conduct tests to ensure reliability*
- Deployment of website*