ICT Semester Project Proposal

Project Title: GPA Calculator Website

Group Members

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Project Description

We are developing a comprehensive web-based GPA Calculator designed to assist students in managing and improving their academic performance. This project will be built using HTML, CSS, and JavaScript, demonstrating our understanding of front-end web development principles.

Main Objectives:

Our website will serve three primary purposes:

1. Semester GPA Calculator

- Students can calculate their GPA
- The system will automatically calculate their current semester GPA using the standard 4.0 grading scale
- Results will be displayed instantly with a clean, user-friendly interface

2. Academic Improvement Section

- Provide practical tips and strategies for improving academic performance
- Offer time management techniques specifically tailored for students
- Include study habit recommendations based on GPA ranges
- Motivational guidance and goal-setting advice

3. Study Materials Repository

- Curated links to educational YouTube channels and tutorials
- Recommended textbooks and reference materials for various subjects
- Collection of useful educational websites and online learning platforms
- Resources organized by subject areas for easy navigation

Technical Specifications

Technologies Used:

- HTML5 - For website structure and content
- CSS3 - For styling and responsive design
- JavaScript - For interactive features and GPA calculations

Project Scope:

- This is a front-end only project with no backend database requirements
- All calculations will be performed on the client-side using JavaScript
- The website will be responsive
- No user authentication or data storage will be implemented

Expected Features

1. **Interactive Input Forms** - Easy-to-use forms for entering course information
2. **Real-time Calculations** - Instant GPA calculation as users input data
3. **Responsive Design** - Friendly interface that works across all devices
4. **Clean User Interface** - Simple and intuitive navigation
5. **Resource Links** - Organized collection of study materials and resources
6. **Tips and Advice** - Helpful suggestions for academic improvement

Learning Outcomes

Through this project, we aim to:

- Strengthen our understanding of HTML, CSS, and JavaScript

- Learn to create responsive and user-friendly web interfaces
- Practice collaborative development using GitHub
- Implement practical mathematical calculations in JavaScript
- Design an application that solves real-world student problems

Conclusion

This GPA Calculator website will serve as a valuable tool for students while demonstrating our proficiency in web development fundamentals. The project combines practical utility with technical learning, making it an ideal choice for our ICT semester project.

Submitted by:

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Course: ICT - Web Development (HTML, CSS, JavaScript)

GitHub Repository: GPA CALCULATOR