Project Title: Timetable Generation

Abstract:

Timetable generation systems implemented using HTML leverage web-based technologies to streamline the scheduling process in educational institutions and other settings. This abstract explores the design and implementation of such a system, utilizing HTML for creating user interfaces and integrating with backend systems for data management. Key features include interactive forms for inputting scheduling constraints, dynamic rendering of schedules based on algorithmic calculations, and responsive layouts for accessibility across devices. The system aims to enhance efficiency in timetable creation, offering administrators and stakeholders a user-friendly platform to manage resources and optimize scheduling outcomes. This abstract encapsulates the essence of using HTML for developing a timetable generation system, highlighting its role in facilitating user interaction, data presentation, and system accessibility.

Software Requirements

Frontend: HTML, CSS, JavaScript

Backend: Node.js, Express.js

Database: MongoDB

Version Control: Git

Hosting: Heroku or similar cloud platform

Hardware Requirements

Development Machines: Standard laptops or desktops with internet access

Servers: Cloud hosting service for deployment (e.g., Heroku)

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