

TIMETABLE GENERATOR

STUDENT NAME	MOHAMED ASHHATH B
ROLL NO	7376221EC225
PROJECT ID	23
PROJECT TITLE	TIMETABLE GENERATOR

1.INTRODUCTION:

- **Overview of the timetable generator:** Describe the purpose of the timetable generator, its target audience, and the problems it aims to solve. Mention its key features and benefits.
- **Purpose and scope of the documentation:** Explain what this documentation covers, who it is intended for (end users, administrators, developers), and how it is organized.

2.SYSTEM REQUIREMENTS:

Listing the hardware and software requirements for installing and running the timetable generator.

FRONT END	Vue.js
BACK END	Node.js with Express.js
DATABASE	MongoDB
API	RESTFul API

3. USER GUIDE:

- **User interface overview:** Describe the main components of the user interface, including menus, toolbars, and main windows.
- **Creating a new timetable:** Step-by-step instructions for creating a new timetable from scratch.
- **Adding, editing, and deleting events:** Detailed guide on how to add, modify, and remove events or sessions in the timetable.
- **Importing and exporting data:** Explain how to import data from external sources (e.g., CSV files) and export timetables to different formats.
- **Generating reports:** Instructions on creating and customizing reports based on the timetable data.

4. FEATURES AND FUNCTIONALITY:

- **Scheduling algorithms:** Explain the algorithms used for scheduling, their logic, and how they ensure optimal timetables.
- **Conflict detection and resolution:** Describe how the software detects scheduling conflicts and the available options for resolving them.
- **Notifications and reminders:** Explain how to set up and manage notifications and reminders for events.
- **Timetable Display:** Provide students with a view of their personal class schedules.

Provide faculty with a view of their teaching schedules. Allow administrators to view and

manage overall schedules for all users.

5. ADMINISTRATIVE FUNCTIONS:

- **User management (roles, permissions):** Guide on managing users, assigning roles, and setting permissions.
- **Data backup and restoration:** Instructions for backing up and restoring timetable data.
- **Configuration settings:** Overview of the configuration settings available to administrators.

6. ADVANCED USAGE:

- **Integrating with other systems (API usage):** Instructions on how to integrate the timetable generator with other systems using its API.
- **Automation scripts:** Examples of automation scripts for common tasks.
- **Custom scheduling rules:** Guide on defining and applying custom scheduling rules.

7. SCOPE:

- **Architecture overview:** Detailed explanation of the software's architecture and design principles.
- **Development setup:** Instructions for setting up a development environment. Guide on how to extend the software by adding new features.
- **Testing and debugging:** Instructions for testing and debugging the software.

Contributing to the project: Guidelines for contributing to the project, including coding standards and submission processes. This System encompasses the design, development, implementation, and maintenance of a

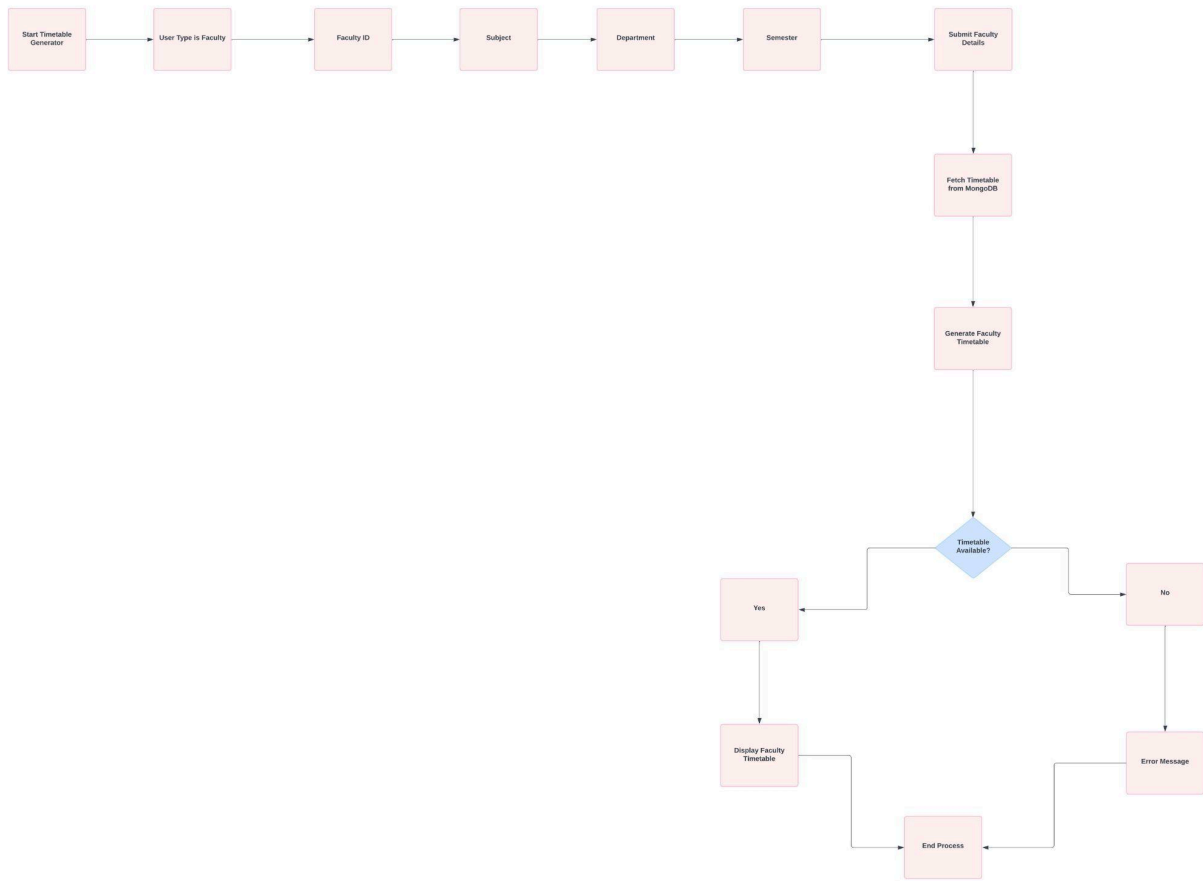
system that automates the creation of timetables for a college setting. The scope covers various aspects, including user roles, functionalities, constraints, and technology stack.

8.API DOCUMENTATION:

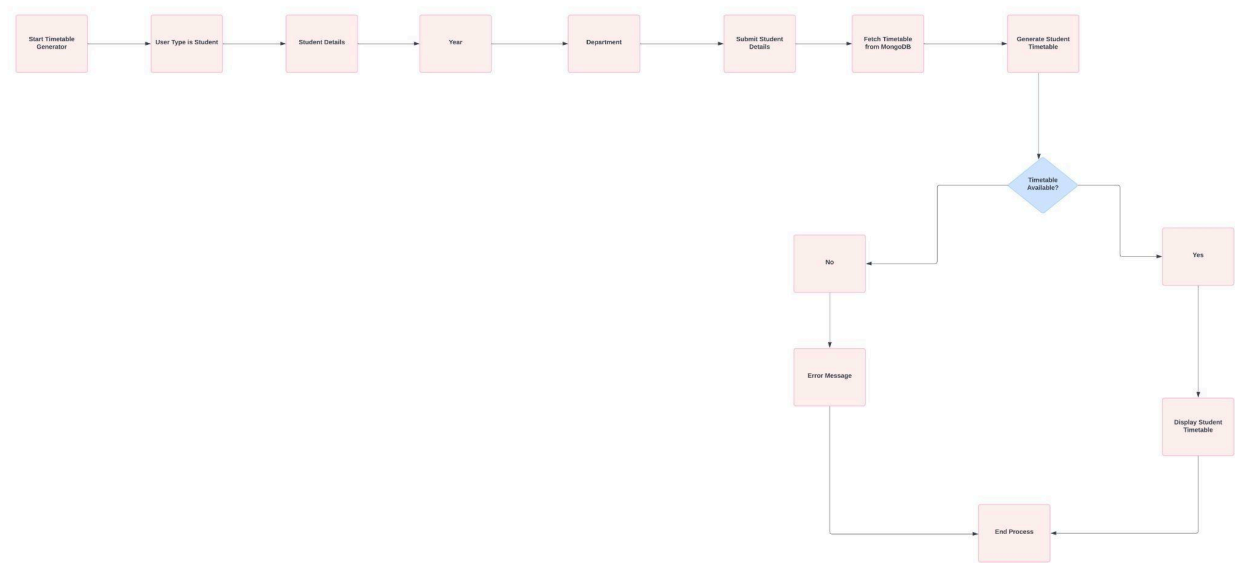
- **Overview of the API:** General information about the API, including its purpose and capabilities.
- **Authentication and authorization:** Instructions on how to authenticate and authorize API requests.

FLOWCHART :

FACULTY :



STUDENT:



ADMIN PORTAL FLOWCHART:

