Student-Teacher Booking Appointment

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Domain: Full Stack Web Development

Type: Basic Project

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Introduction:

The Student-Teacher Appointment System is a streamlined web-based platform designed to facilitate efficient communication and scheduling between students and teachers. This system allows students to book appointments with teachers based on their preferred subject and teacher availability while ensuring proper user access control and data security.

Objective:

- To simplify the appointment process for students and teachers, enhancing productivity and time management.
- To ensure secure access control through robust authentication and authorization mechanisms.
- To empower admins with comprehensive control over the system's operations, ensuring efficiency and accountability.

Technologies Used:

- **JavaScript:** JavaScript is a high-level, versatile, and interpreted programming language primarily used to create interactive and dynamic content on websites. It is a core technology of the web, alongside HTML and CSS, enabling developers to build responsive and feature-rich user interfaces.

- **HTML:** HTML (HyperText Markup Language) is the standard language used to create and structure content on the web. It uses a system of tags to define elements such as headings, paragraphs, links, images, and more.

- **CSS:** CSS (Cascading Style Sheets) is a language used to style and layout HTML content on web pages. It controls the appearance of elements, such as colors, fonts, spacing, and overall design.

- **Vite:** Vite is a modern front-end build tool and development server designed for fast and efficient development. It is particularly popular for projects using frameworks like React, Vue, and Svelte.

- **ReactJS:** ReactJS is a popular JavaScript library for building dynamic, interactive, and reusable user interfaces, especially for single-page applications (SPAs). It was developed by Facebook and is maintained by Meta and an open-source community.

- **React-multi-carousel:** A flexible, responsive carousel library for React that supports multiple items per slide. It's commonly used to display items like images, cards, or product listings in a sliding format.

- **React-toastify:** A library to display customizable, easy-to-use toast notifications in React applications.

- **Axios:** A popular HTTP client library for JavaScript, used to make API requests from a browser or Node.js environment.

- **Bcrypt:** bcrypt is a library used for hashing passwords securely. It ensures that passwords are stored as hashes instead of plain text, which protects them from being exposed even if a database is compromised.

- **Cloudinary:** Cloudinary is a cloud-based media management platform that simplifies image and video storage, optimization, and delivery.

- **Cookie-parser:** A middleware for Express.js to parse cookies from incoming requests. It simplifies accessing and managing cookies in your application.

- **Express-fileupload:** express-fileupload is a middleware for handling file uploads in Express.js applications.

- **Jsonwebtoken:** A library for generating and verifying JSON Web Tokens (JWT). It's commonly used for user authentication in web applications.

- Mongoose: A MongoDB object modeling library for Node.js, making it easier to interact with MongoDB by defining schemas and models.

- **Validator:** A library for validating and sanitizing strings. It’s commonly used to ensure user input is valid before processing or storing it.

Features:

- **Appointment Management:** Students can view available teachers and request appointments based on their subject preferences. Only Admins can approve or reject appointment requests, maintaining control over scheduling.

- **Responsiveness:** Responsiveness in websites refers to the design and development approach that ensures a website looks and functions well on a wide variety of devices and screen sizes, including desktops, tablets, and mobile phones.

- **Teacher Management:** Admins can add, update, or delete teacher profiles, ensuring up-to-date availability and information. This feature supports seamless teacher management and allows flexibility in handling staff changes.

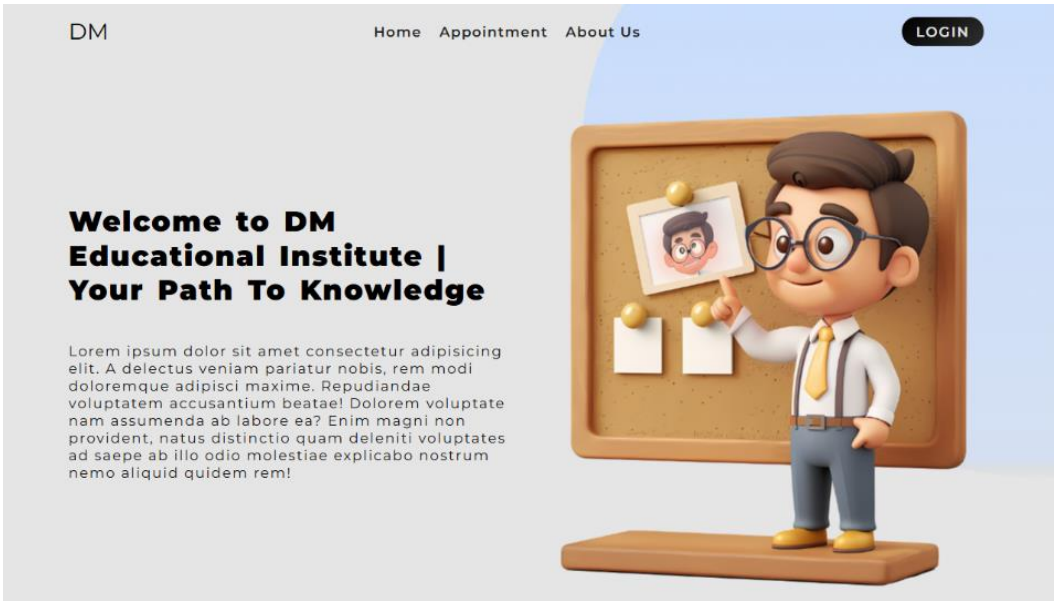
- **Unregistered User Messaging:** Visitors without an account can still send messages or inquiries to the admin. This ensures open communication while restricting access to appointment and teacher management features.

- **User Authentication and Authorization:** Only registered students can log in to book appointments. Admins have exclusive privileges to manage appointment requests and oversee teacher records.

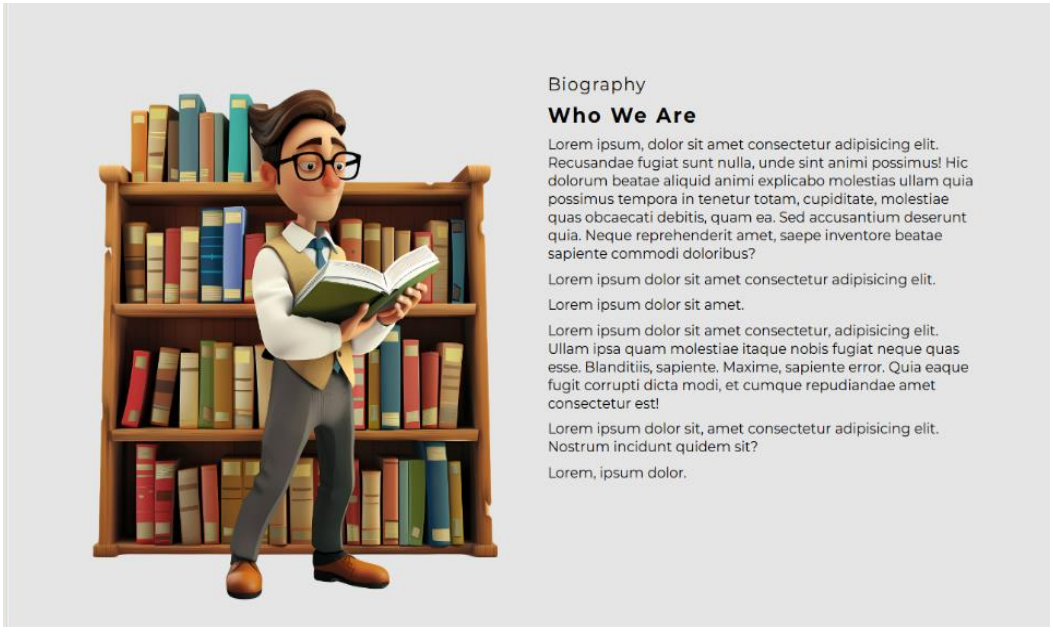
Working:

1) Student UI-

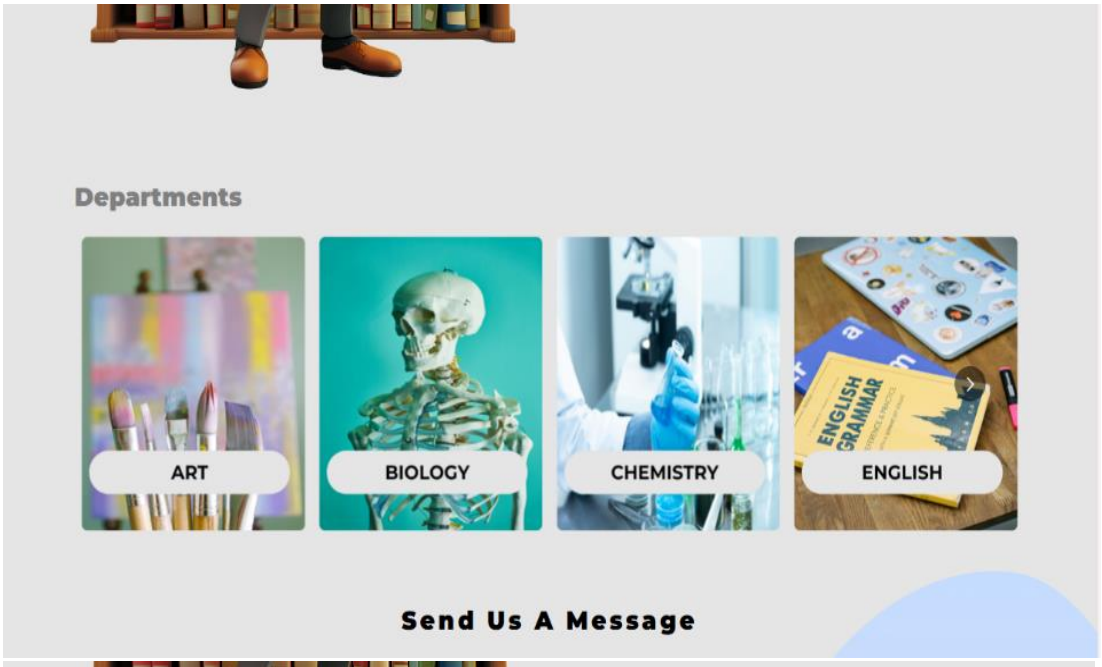
a) HomePage Design

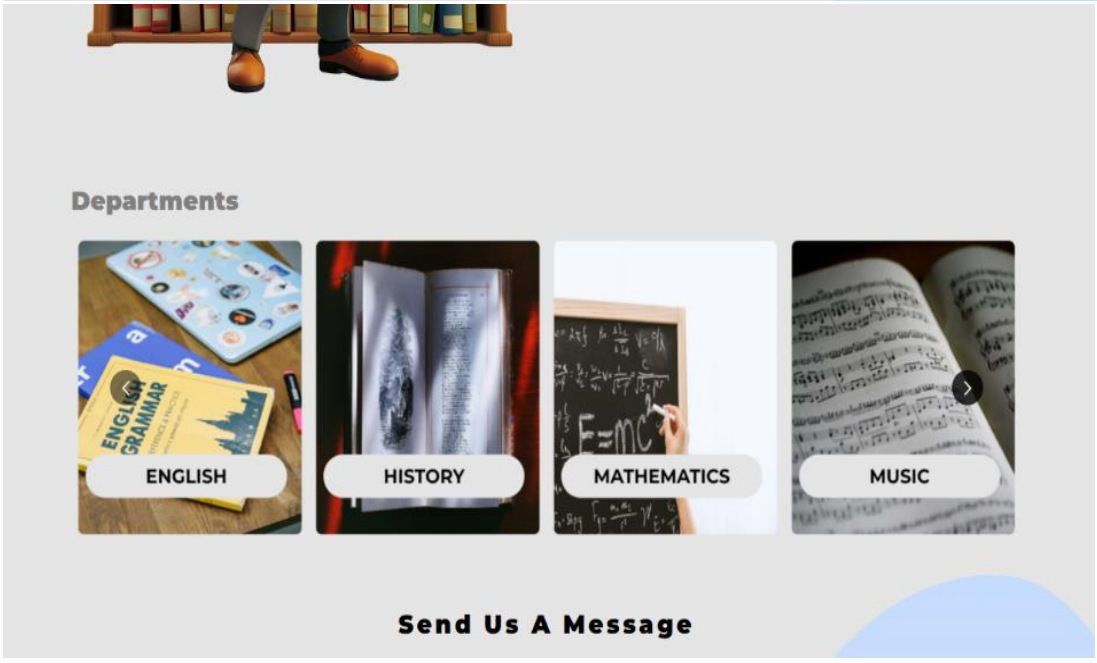


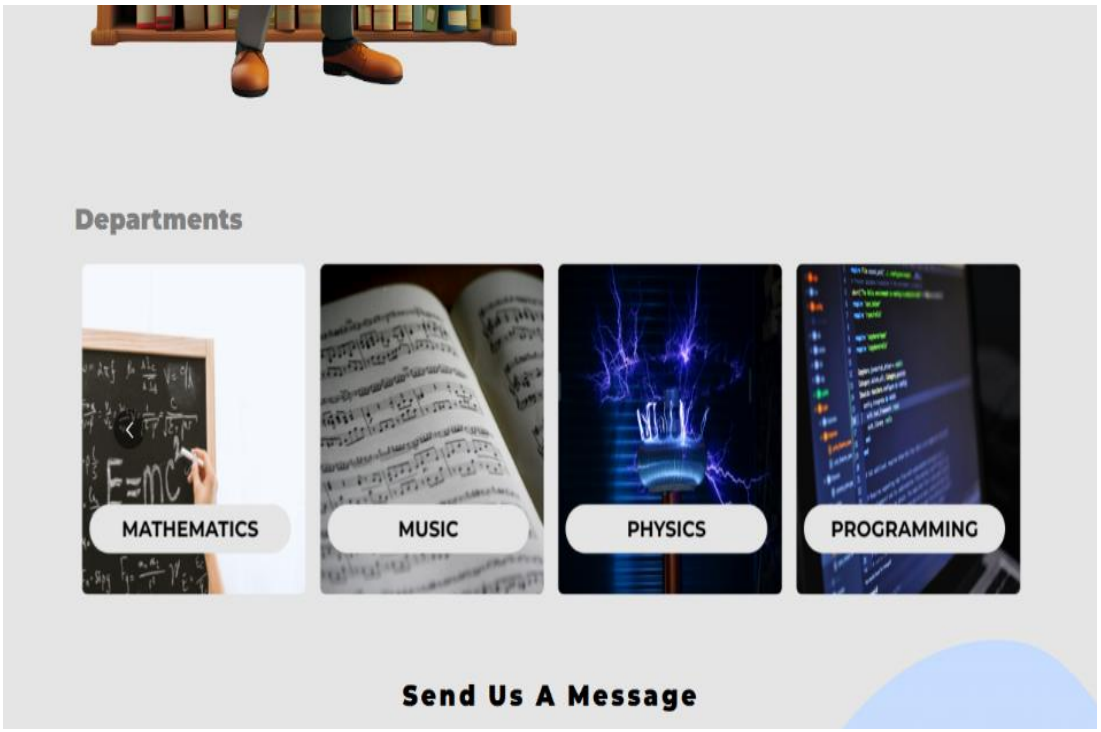
b) Biography Section



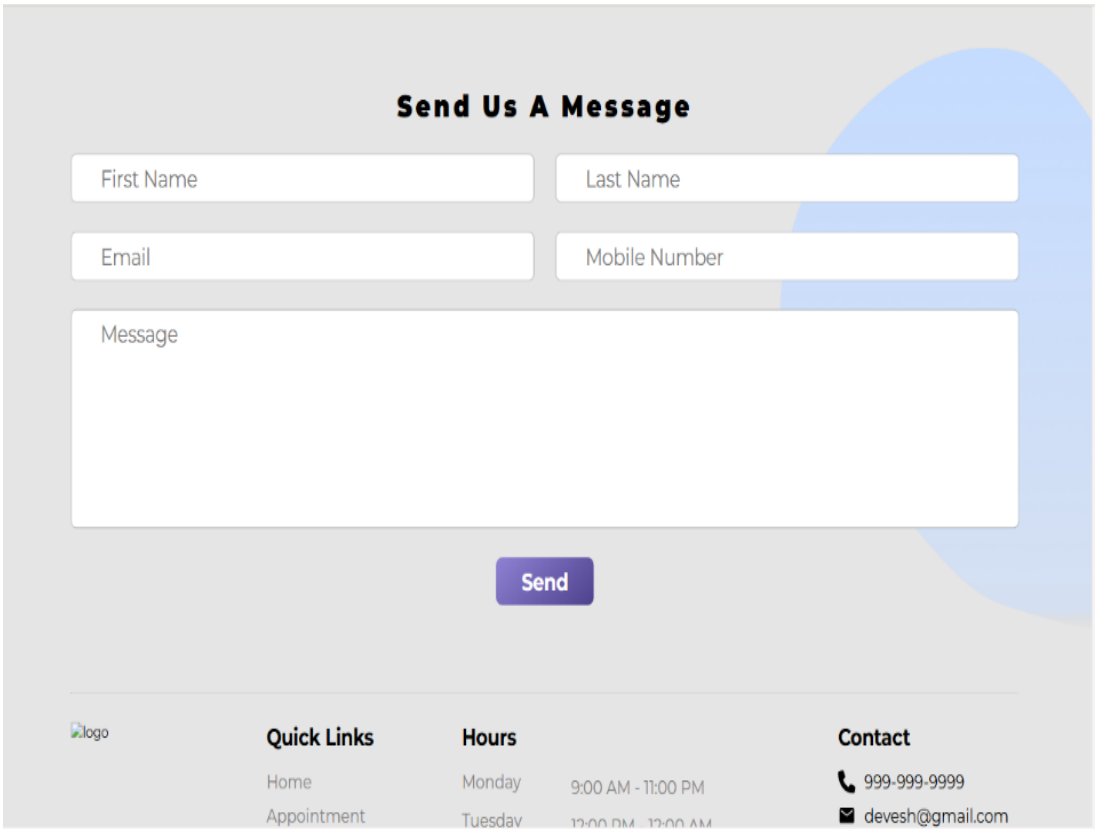
c) Departments (Subjects) Section

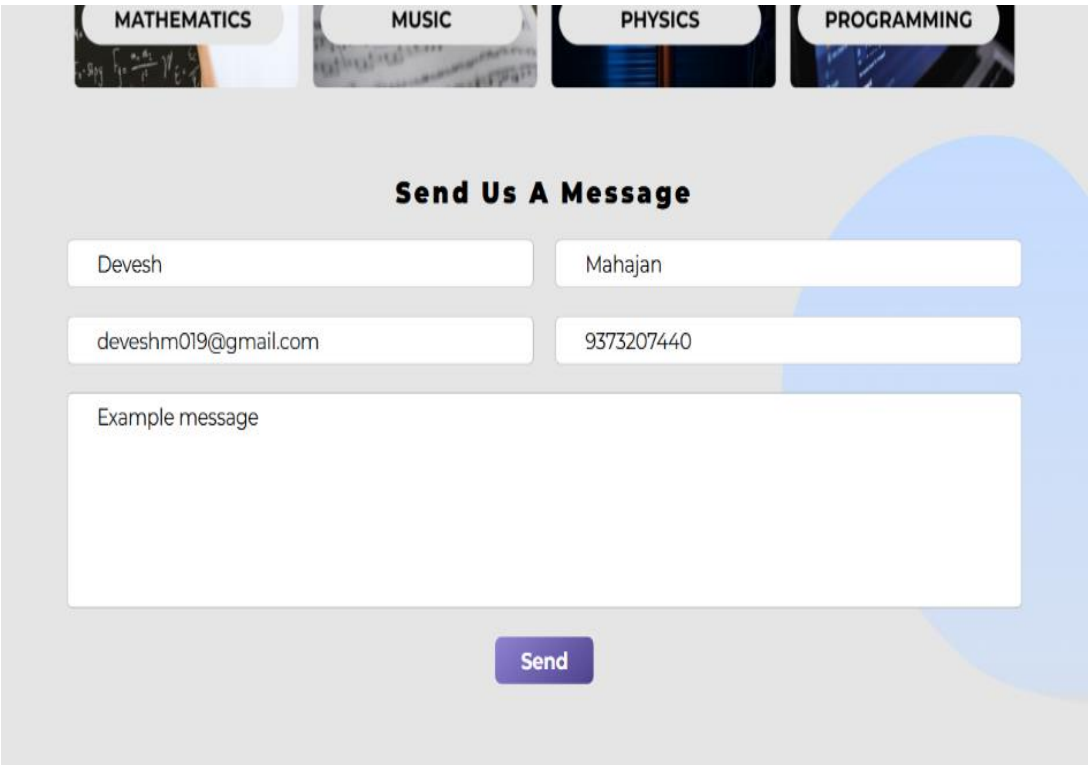




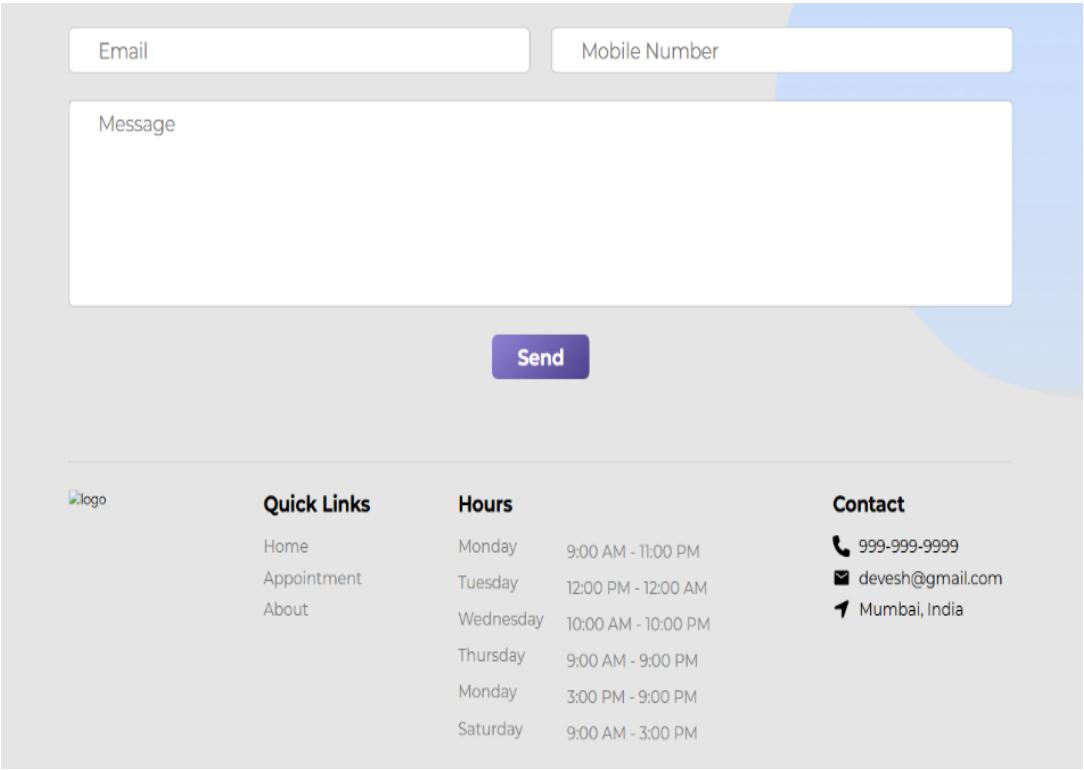


d) Message Section





e) Footer Section



f) Appointment Section

DM

Home Appointment About Us LOGIN

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Appointment

First Name

Last Name

Appointment

First Name

Last Name

Email

Mobile Number

College ID

Date of Birth
mm/dd/yyyy

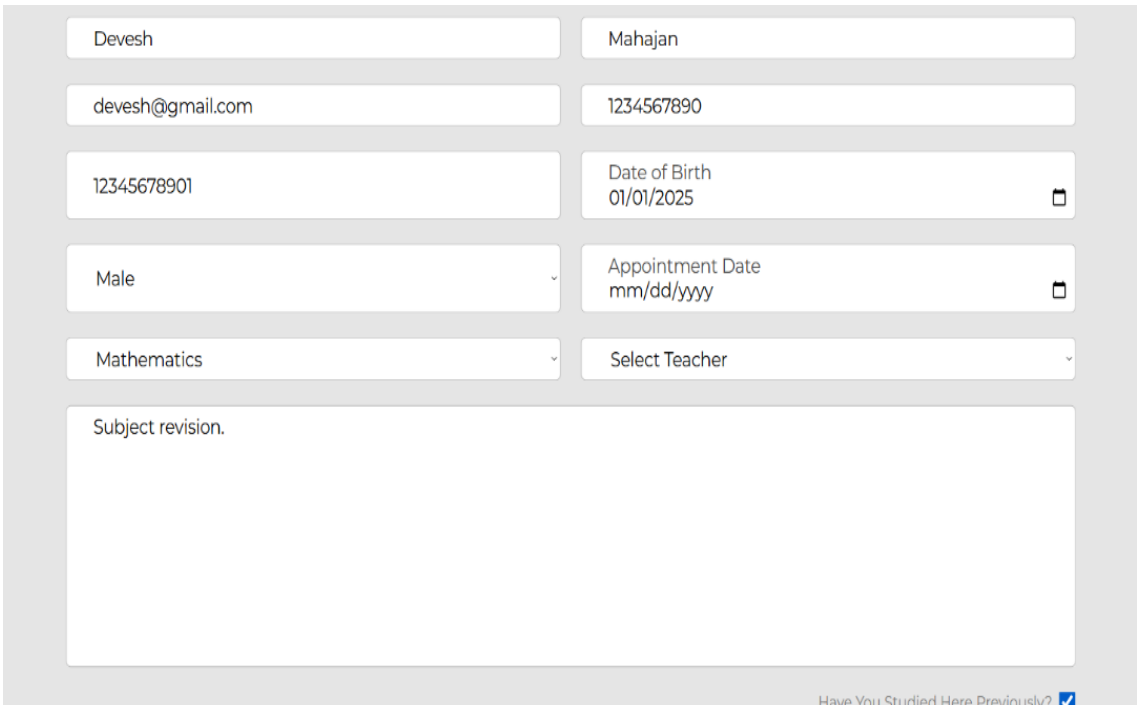
Select Gender

Appointment Date
mm/dd/yyyy

Art

Select Teacher

Reason For Appointment



g) AboutUs Section

DM
Home
Appointment
About Us
LOGIN
Learn More About Us | DM Educational Institute
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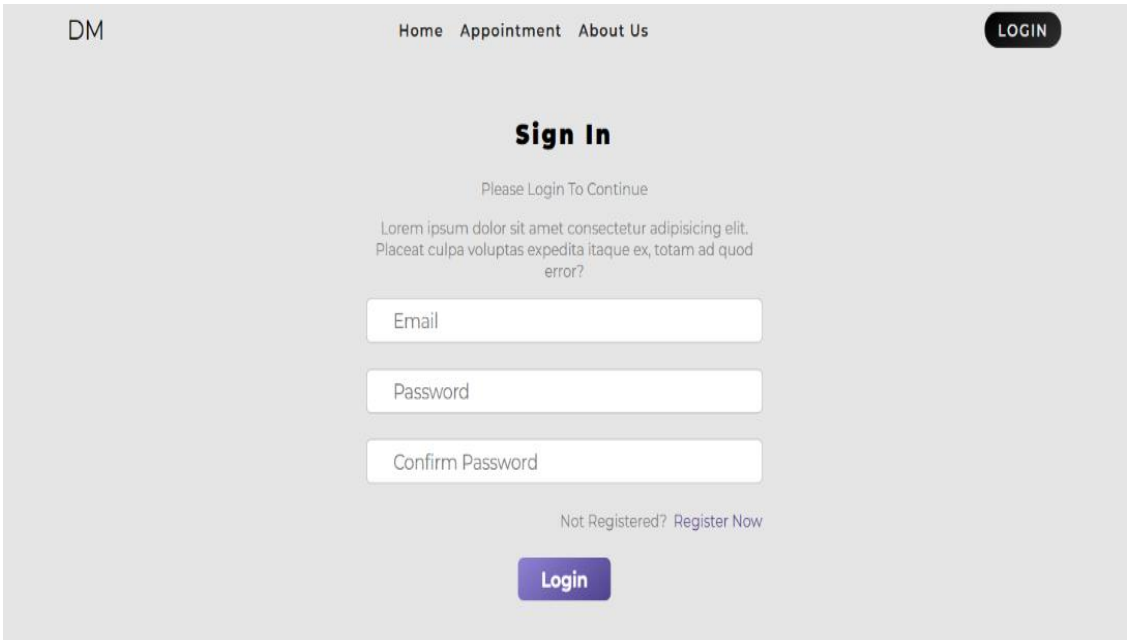
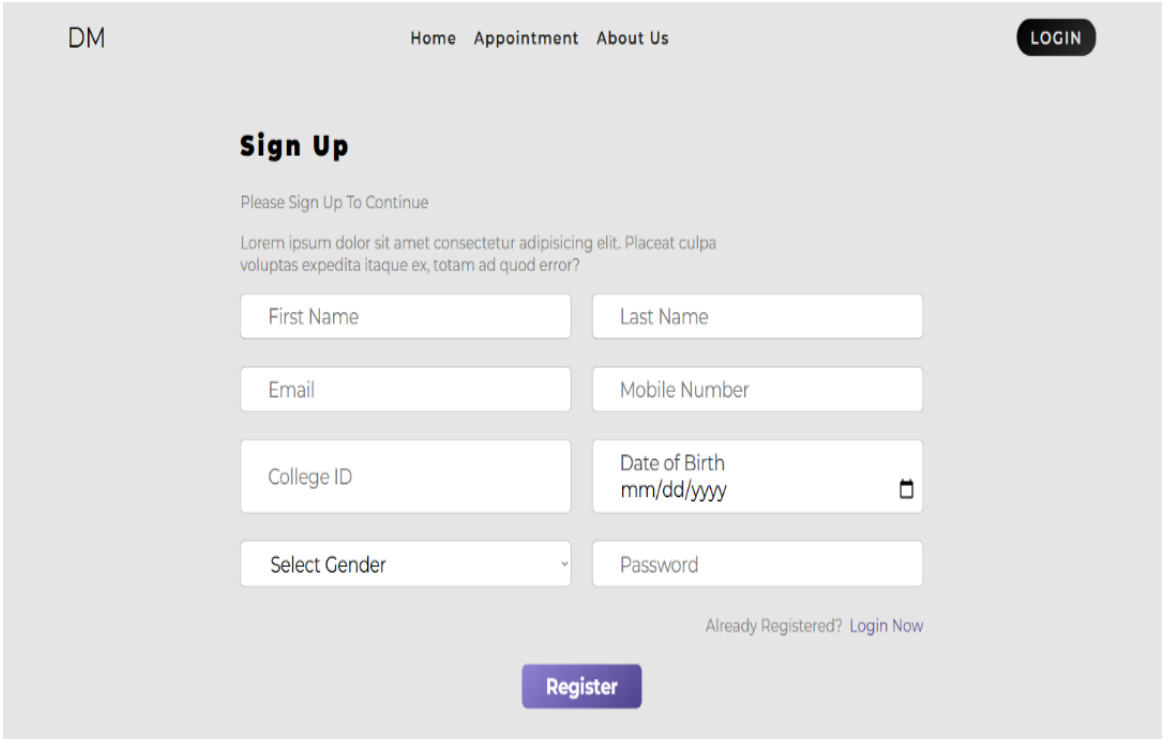
Quick Links
Home
Appointment
About
Hours
Monday 9:00 AM - 11:00 PM
Tuesday 12:00 PM - 12:00 AM
Wednesday 10:00 AM - 10:00 PM
Thursday 9:00 AM - 9:00 PM
Contact
999-999-9999
devesh@gmail.com
Mumbai, India

h) Login Page

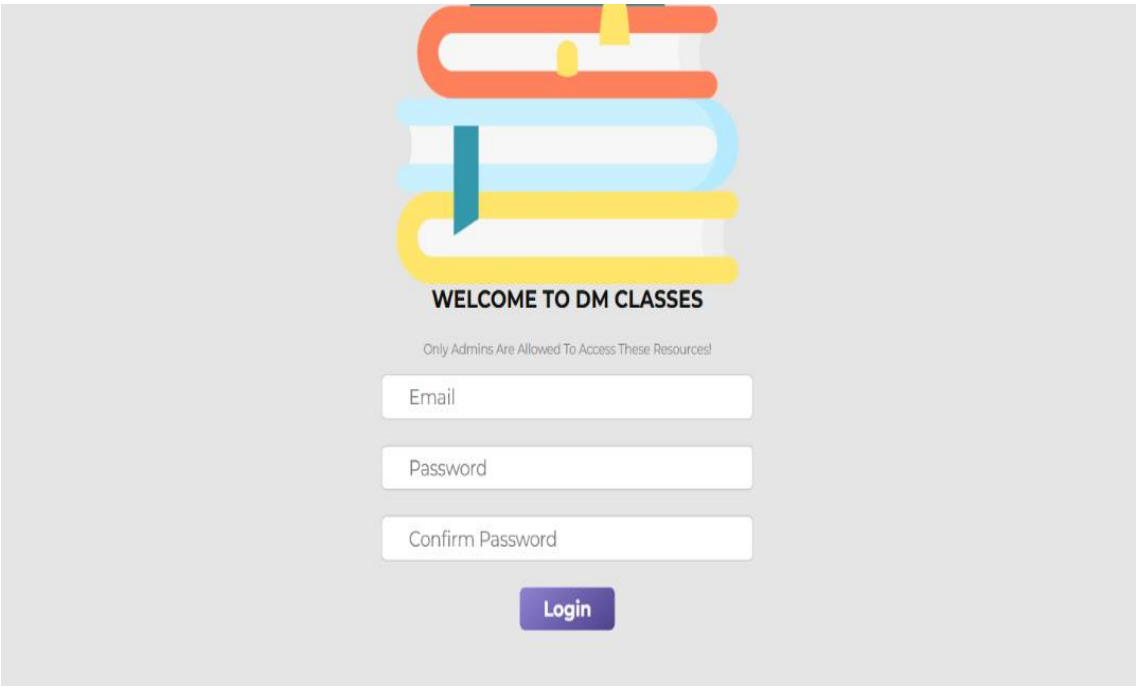


i) Registration Page

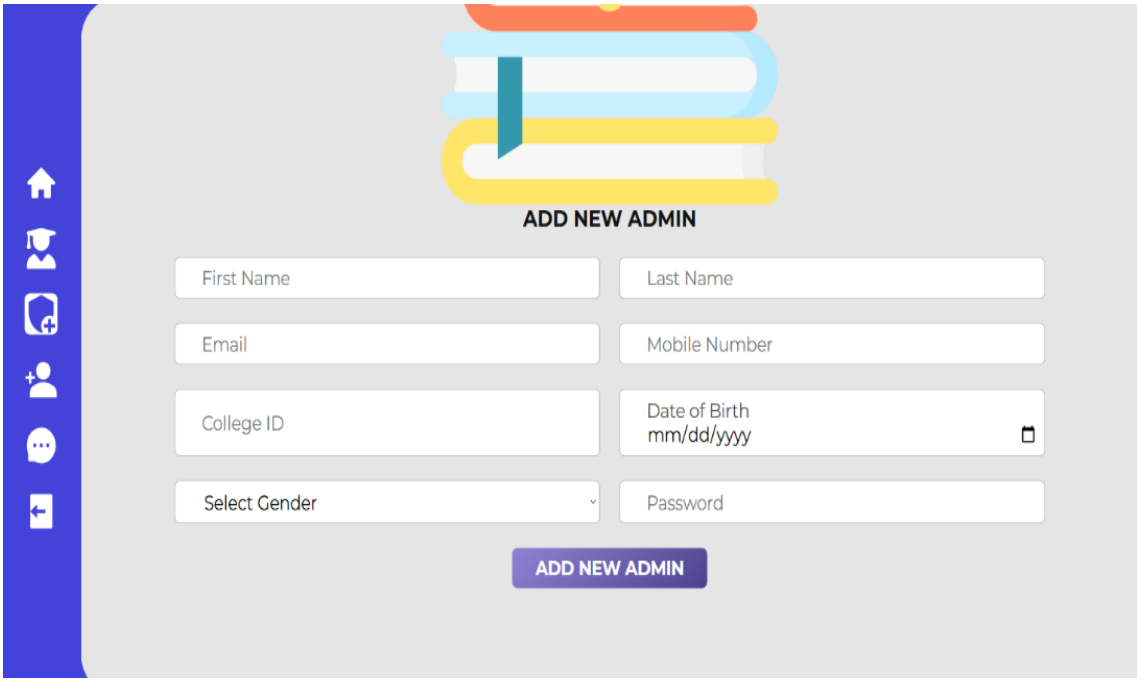


2) Admin UI-

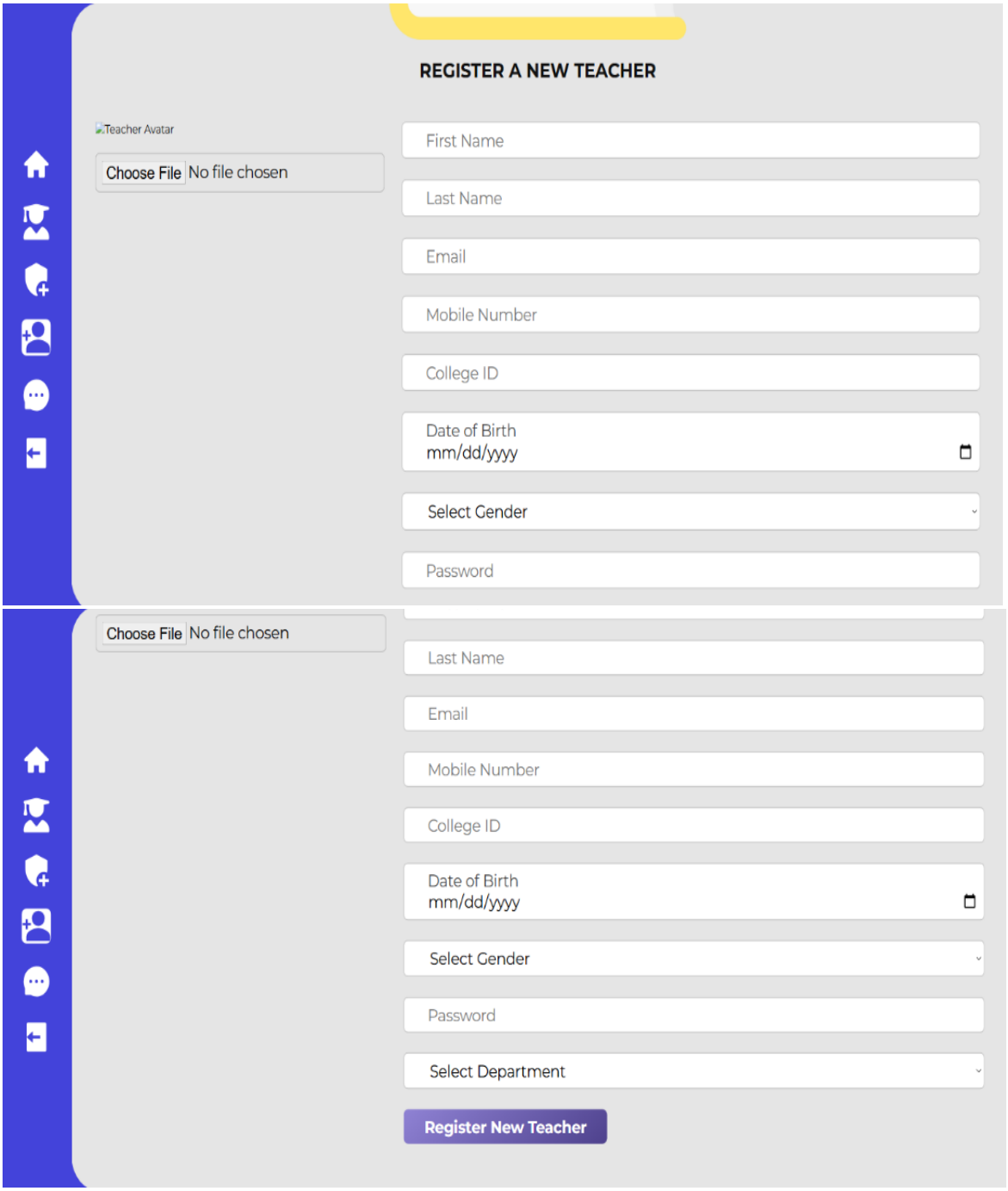
a) Login Page



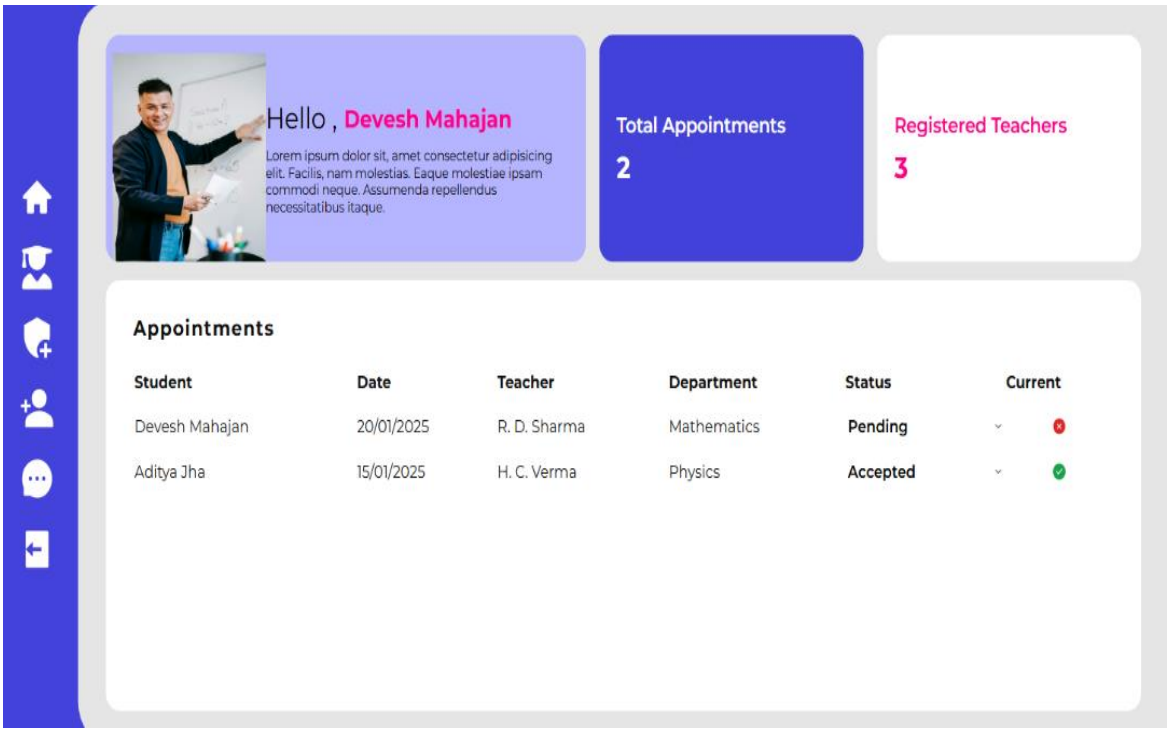
b) Admin Registration Page



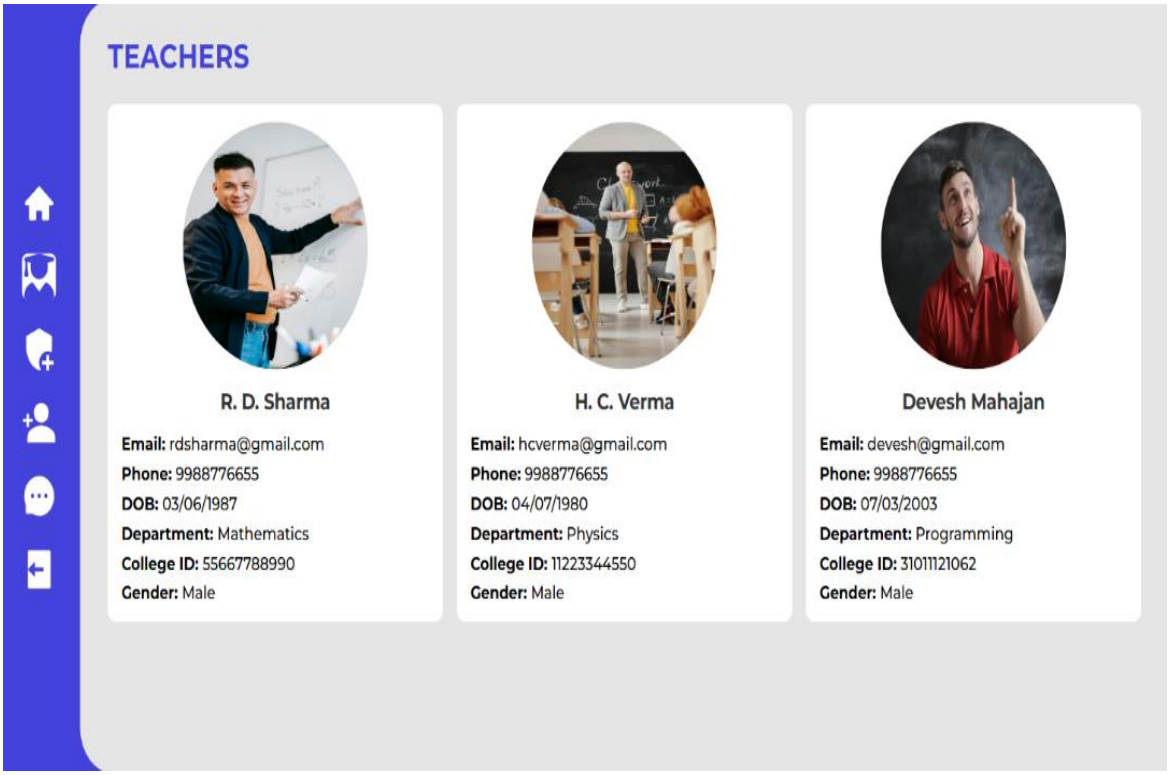
c) Teacher Registration Page



d) Admin Dashboard



e) Teachers Page



Summary:

The Student-Teacher Appointment System is a web-based platform designed to simplify the appointment process between students and teachers, ensuring efficient communication and scheduling. Built with modern technologies like ReactJS, Vite, and MongoDB, the system provides robust features such as secure user authentication and authorization, allowing only registered students to book appointments and admins to manage them. Admins also maintain exclusive control over teacher management, including adding, updating, or deleting teacher profiles. With support for responsive design, unregistered users can send messages to the admin, ensuring open communication while maintaining restricted access to critical features. The integration of tools like Axios for API requests, bcrypt for password security, and Cloudinary for media management ensures a seamless and secure user experience.

Source Code: **https://github.com/deveshm019/student-teacher-appointment-system.git**