

Student-Teacher Booking Appointment

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Domain: Full Stack Web Development

Type: Basic Project

Sr. No.	Section	Page No.
1	Introduction	2
2	Objective	2
3	Technologies Used	3
4	Features	5
5	Working	6
6	Summary	17

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.

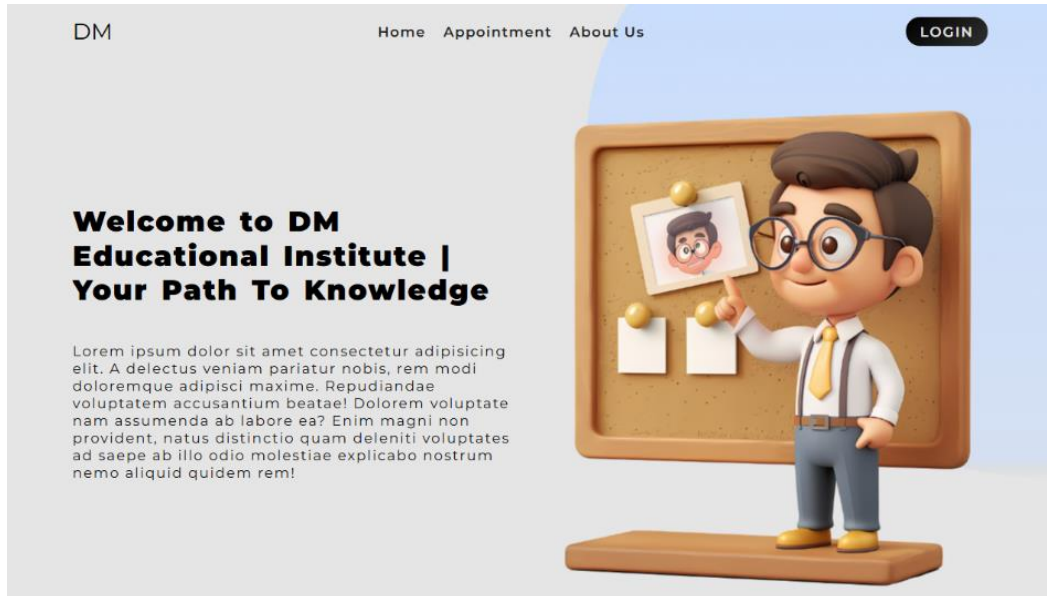
Features:

- **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.

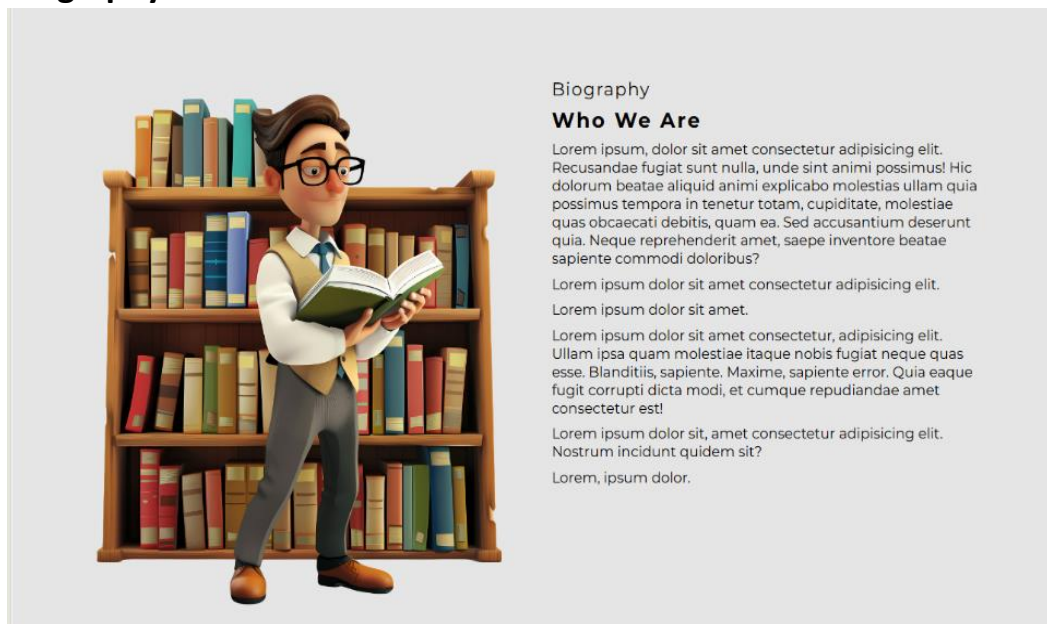
Working:

1) Student UI-


a) HomePage Design




b) Biography Section



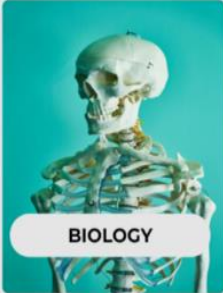
c) Departments (Subjects) Section




Departments




ART



BIOLOGY




CHEMISTRY




ENGLISH


Send Us A Message



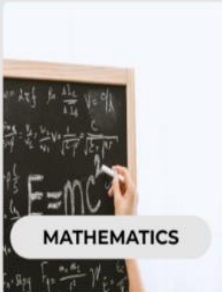
Departments



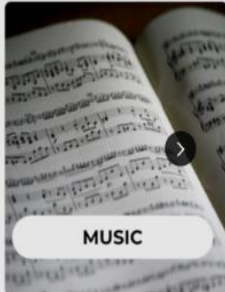
ENGLISH



HISTORY

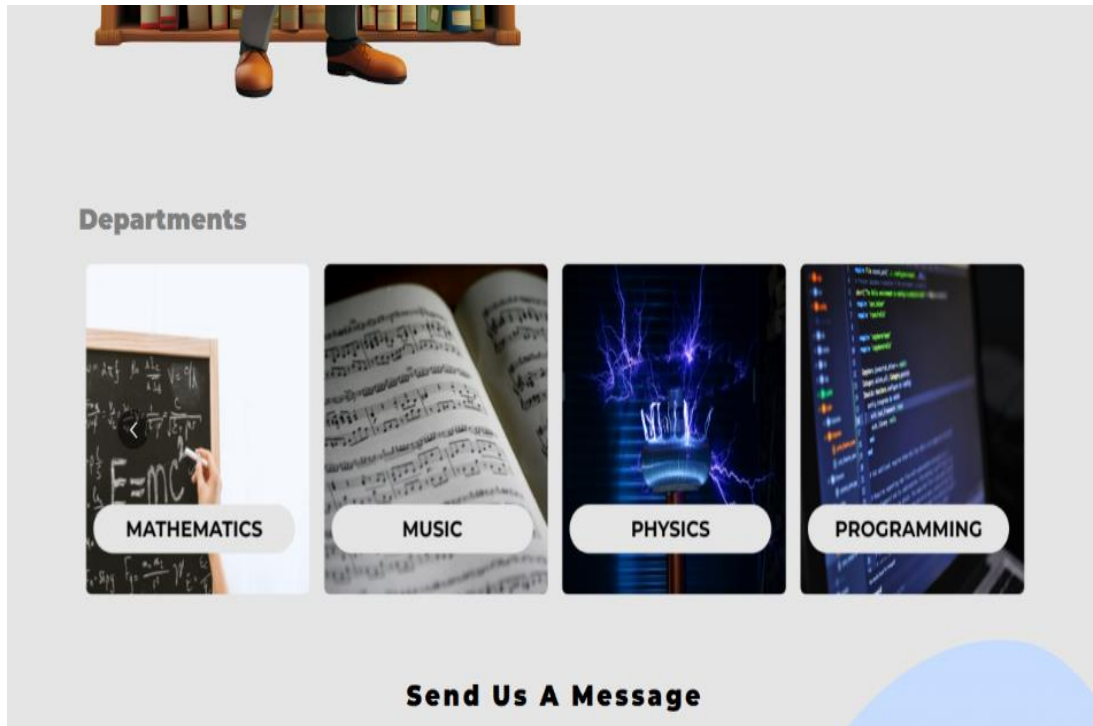


MATHEMATICS



MUSIC

Send Us A Message



d) Message Section

The image shows a "Send Us A Message" form and a footer. The form is on a light gray background with a large light blue abstract shape on the right. It has a title "Send Us A Message" in bold dark font. Below the title are four input fields: "First Name", "Last Name", "Email", and "Mobile Number". Below these is a large text area for "Message". At the bottom of the form is a purple "Send" button. The footer is at the bottom of the page, separated by a horizontal line. It contains a logo on the left, "Quick Links" with "Home" and "Appointment", "Hours" with "Monday 9:00 AM - 11:00 PM" and "Tuesdav 12:00 PM - 12:00 AM", and "Contact" with a phone icon and "999-999-9999" and an email icon and "devesh@gmail.com".

MATHEMATICS

MUSIC

PHYSICS

PROGRAMMING

Send Us A Message

Devesh

Mahajan

deveshm019@gmail.com

9373207440

Example message

Send


e) Footer Section

Email

Mobile Number

Message

Send



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
Monday	3:00 PM - 9:00 PM
Saturday	9:00 AM - 3:00 PM

Contact

- 999-999-9999
- devesh@gmail.com
- Mumbai, India

f) Appointment Section

Schedule Your Appointment | DM Educational Institute

Lorem ipsum dolor sit amet consectetur adipisicing elit. A delectus veniam pariatur nobis, rem modi doloremque adipisci maxime. Repudiandae voluptatem accusantium beatae! Dolorem voluptate nam assumenda ab labore ea? Enim magni non provident, natus distinctio quam deleniti voluptates ad saepe ab illo odio molestiae explicabo nostrum nemo aliquid quidem rem!



Appointment

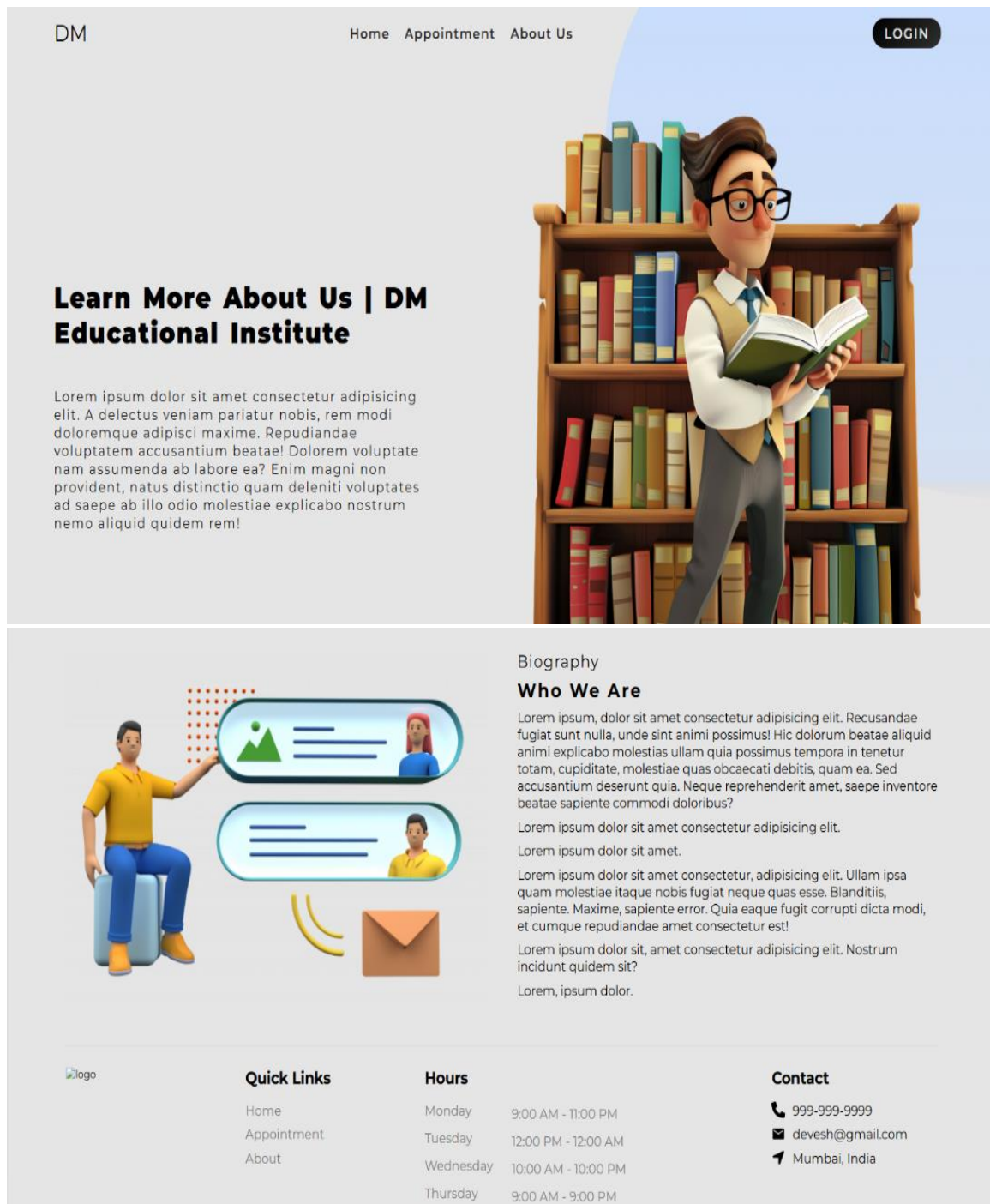
Appointment



<input type="text" value="Devesh"/>	<input type="text" value="Mahajan"/>
<input type="text" value="devesh@gmail.com"/>	<input type="text" value="1234567890"/>
<input type="text" value="12345678901"/>	<div>Date of Birth 01/01/2025</div>
<div>Male</div>	<div>Appointment Date mm/dd/yyyy</div>
<div>Mathematics</div>	<div>Select Teacher</div>
<div>Subject revision.</div>	

Have You Studied Here Previously? ☒

g) AboutUs Section



h) Login Page

DM

Home Appointment About Us

LOGIN

Sign In

Please Login To Continue

Lorem ipsum dolor sit amet consectetur adipisicing elit. Placeat culpa voluptas expedita itaque ex, totam ad quod error?

Email

Password

Confirm Password

Not Registered? Register Now

Login

i) Registration Page

DM

Home Appointment About Us

LOGIN

Sign Up

Please Sign Up To Continue

Lorem ipsum dolor sit amet consectetur adipisicing elit. Placeat culpa voluptas expedita itaque ex, totam ad quod error?

First Name

Last Name

Email

Mobile Number

College ID

Date of Birth
mm/dd/yyyy

Select Gender


Password

Already Registered? Login Now

Register

2) Admin UI-

a) Login Page



WELCOME TO DM CLASSES

Only Admins Are Allowed To Access These Resources!


Email

Password

Confirm Password

Login

b) Admin Registration Page

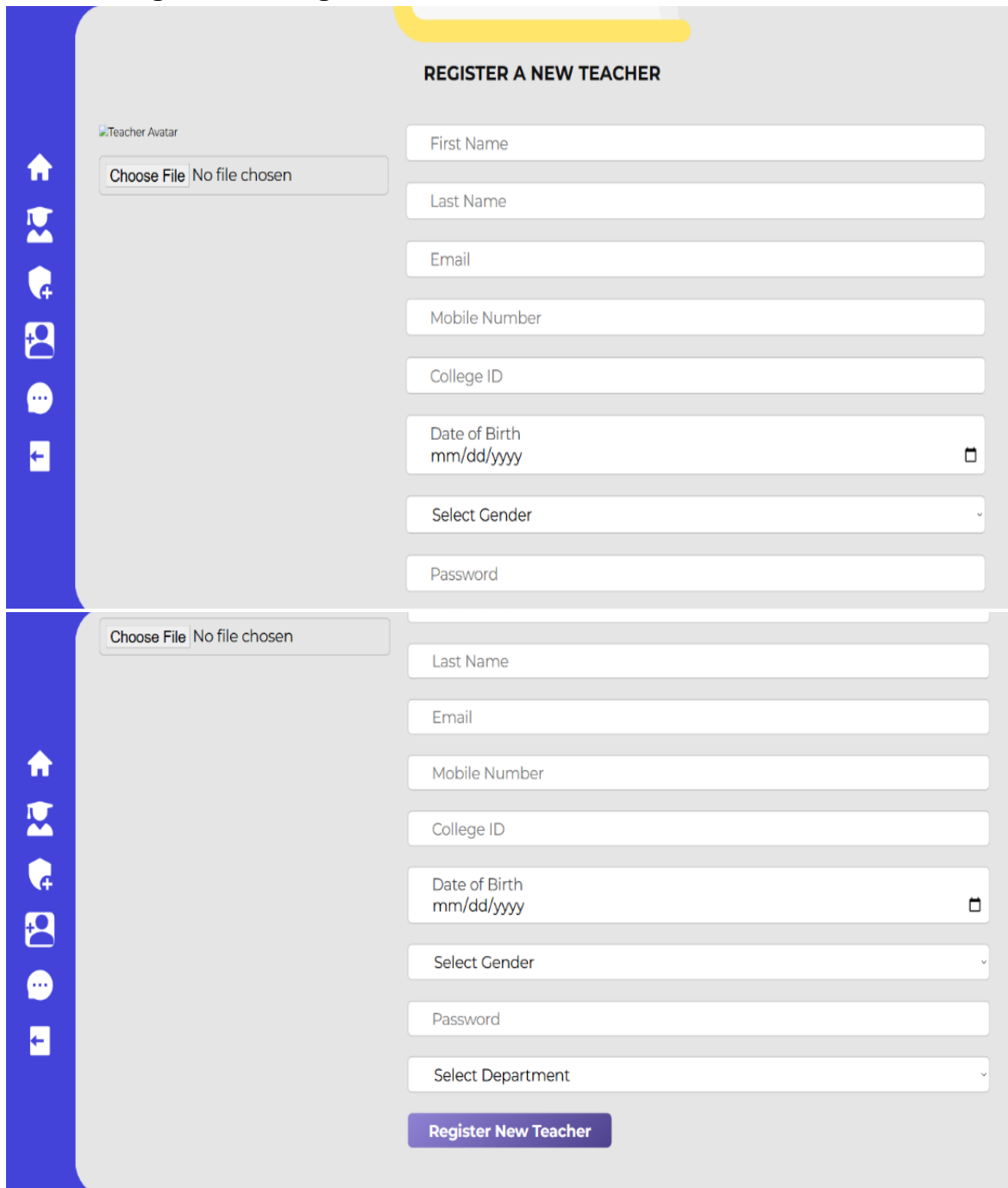


ADD NEW ADMIN

First Name <input type="text"/>	Last Name <input type="text"/>
Email <input type="text"/>	Mobile Number <input type="text"/>
College ID <input type="text"/>	Date of Birth <input type="text" value="mm/dd/yyyy"/>
Select Gender <input type="text"/>	Password <input type="password"/>

ADD NEW ADMIN

c) Teacher Registration Page



The image displays two versions of a 'Teacher Registration Page' UI mockup. Both versions feature a blue vertical sidebar on the left with icons for home, user profile, add user, chat, and share. The top version is titled 'REGISTER A NEW TEACHER' and includes a 'Teacher Avatar' section with a 'Choose File' button and 'No file chosen' text. The registration form contains fields for First Name, Last Name, Email, Mobile Number, College ID, Date of Birth (mm/dd/yyyy), Select Gender, and Password. The bottom version is identical but includes an additional 'Select Department' dropdown menu at the bottom of the form, followed by a 'Register New Teacher' button.

REGISTER A NEW TEACHER

Teacher Avatar
Choose File No file chosen

First Name

Last Name

Email

Mobile Number

College ID

Date of Birth
mm/dd/yyyy

Select Gender

Password

Choose File No file chosen

Last Name

Email

Mobile Number

College ID

Date of Birth
mm/dd/yyyy

Select Gender

Password

Select Department

Register New Teacher

d) Admin Dashboard

Hello , **Devesh Mahajan**

Lorem ipsum dolor sit, amet consectetur adipisicing elit. Facilis, nam molestias. Eaue molestiae ipsam commodi neque. Assumenda repellendus necessitatibus itaque.

Total Appointments

2

Registered Teachers

3

Appointments

Student	Date	Teacher	Department	Status	Current
Devesh Mahajan	20/01/2025	R. D. Sharma	Mathematics	Pending	
Aditya Jha	15/01/2025	H. C. Verma	Physics	Accepted	

e) Teachers Page

TEACHERS

R. D. Sharma

Email: rdsharma@gmail.com
Phone: 9988776655
DOB: 03/06/1987
Department: Mathematics
College ID: 55667788990
Gender: Male

H. C. Verma

Email: hcverma@gmail.com
Phone: 9988776655
DOB: 04/07/1980
Department: Physics
College ID: 11223344550
Gender: Male

Devesh Mahajan

Email: devesh@gmail.com
Phone: 9988776655
DOB: 07/03/2003
Department: Programming
College ID: 3101121062
Gender: Male

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>