

Project: Student Registration System

Frontend: HTML, CSS, JavaScript/jQuery

Backend: Python (Django Framework)

Project Overview:

The **Student Registration System** is a dynamic, web-based application designed to allow students to register for courses, update personal details, delete records, and view a list of all registered students. The application emphasizes a smooth, interactive user experience, with all actions handled via **AJAX** to prevent page reloads.

This system is targeted at students who have completed their 10th class and are looking to join an intermediate college.

Features:

1. User Interface:

- Developed using **HTML** and **CSS** for a clean, responsive layout.
- **JavaScript/jQuery** for form validation, event handling, and dynamic content updates.
- **AJAX** is used to load and submit data, ensuring that all interactions, such as form submissions and updates, occur without reloading the page.

2. Core Functionalities:

- **Registration Form:** Students can input their personal, academic, and contact details.
 - **Edit Student Details:** Enables students to modify existing data.
 - **Delete Student Records:** Allows students or admins to remove records with a confirmation step.
 - **View Registered Students:** Displays a table with all registered students, including search and filtering capabilities.
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Key Components:

1. Website Tabs:

- **Home:** A welcoming page providing an overview of the college.
- **Contact Us:** A form where users can submit inquiries and messages.
- **About Us:** Information about the college's history, vision, and mission.
- **Careers:** A section listing job opportunities with all relevant details.
- **Registration:** The main page where students fill out the registration form.

2. Frontend Pages:

- **Home:**
 - Content: Brief introductory content about the college.
 - CSS: A professionally designed landing page with an academic theme.
 - **Contact Us:**
 - Fields: Name, Email, Subject, Message (all submitted via AJAX).
 - **About Us:**
 - Static content describing the college's background and values.
 - **Careers:**
 - Displays job listings dynamically.
 - Example content (displayed in the Careers tab via AJAX):
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Junior Lecturer Job Opening
Location: Hyderabad (Madhapur)
Position: Junior Lecturer (All Subjects)
Years of Experience: 2 years
Qualification: M.Sc. with specialization
Teaching Experience: Required
 - **Key Requirements:**
 - **Teaching Experience:** 1 year (Preferred)
 - **Lecturer Experience:** 1 year (Preferred)
 - **Qualification:** Master's Degree (M.Sc.)
 - **Job Details:**
 - **Type:** Full-time, Permanent
 - **Pay Range:** ₹8,407.59 - ₹35,000.00 per month
 - **Schedule:** Day shift
 - **Note:** Only candidates with an M.Sc. and teaching experience should apply.
 - **Contact:** 9966723725
 - **Work Location:** In person (Nagole, Hyderabad)
 - **Registration Form:**
 - The student registration form includes fields for personal, academic, and contact details (see below).
 - **AJAX-based submission** to ensure smooth interaction without page reloads.
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Registration Form Fields:

1. **Name**
 - Type: Text Input
 - Validation: Required, max length 100 characters.
2. **Roll Number**
 - Type: Number Input
 - Validation: Required, unique.
3. **Email**
 - Type: Email Input
 - Validation: Required, must follow valid email format.
4. **Course**
 - Type: Dropdown (Select Input)
 - Options: C.E.C, M.P.C, Bi.P.C, M.E.C
 - Validation: Required.
5. **Date of Birth**
 - Type: Date Input
 - Validation: Required.
6. **Father's Name**
 - Type: Text Input
 - Validation: Required, max length 100 characters.
7. **Mother's Name**
 - Type: Text Input
 - Validation: Required, max length 100 characters.
8. **Gender**
 - Type: Radio Buttons
 - Options: Male, Female, Other
 - Validation: Required.
9. **Phone Number**
 - Type: Text Input
 - Validation: Required, must be exactly 10 digits.
10. **Hobbies**
 - Type: Checkboxes
 - Options: Reading, Sports, Music, Dancing, Other
 - Validation: Optional.
11. **Percentage of Marks in 10th Class**
 - Type: Number Input
 - Validation: Required, must be between 0 and 100.
12. **Coaching**
 - Type: Dropdown (Select Input)
 - Options: AP CET, IIT, AIEEE
 - Validation: Required.

13. Hostel or Day Scholar

- Type: Dropdown (Select Input)
- Options: Day Scholar, Hostel
- Validation: Required.

14. Address

- Type: Text Area
- Validation: Required, max length 250 characters.

15. About Yourself

- Type: Text Area
- Validation: max length 500 characters.

16. Photo Upload

- Type: File Input
 - Validation: Required, must be an image file (e.g., jpg, png).
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Backend (Django) Integration with AJAX:

- **Register a Student:** Form data is submitted via AJAX to the Django backend, which processes and stores the information.
 - **Edit Student Details:** The existing student data is fetched via AJAX, displayed in the form, and updated via another AJAX request.
 - **Delete Student Records:** A confirmation step is presented, and upon approval, the record is deleted via AJAX.
 - **View Registered Students:** All student records are displayed in a table, dynamically populated via AJAX calls.
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AJAX Functionality:

- All core interactions, including form submission, data updates, deletion, and data retrieval, are handled using AJAX to provide a seamless, uninterrupted user experience without reloading the page.
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CSS Styling:

- Clean and minimalistic design.
 - Responsive layout to ensure compatibility with both desktop and mobile devices.
 - Smooth tab navigation and transitions for a polished look and feel.
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This project is an end-to-end registration and management system, providing a comprehensive and seamless experience for both users and admins.

Student List Display Page:

This page presents a clear, concise view of all registered students. Each student's key details are displayed in a table format, with options for editing and deleting their information.

Columns Displayed:

1. **Student Name:**
 - Displays the full name of the student.
2. **Course:**
 - Shows the selected course (e.g., C.E.C, M.P.C, Bi.P.C, M.E.C) in which the student has enrolled.
3. **Percentage of Marks in 10th Class:**
 - Displays the student's academic score (as a percentage) achieved in the 10th class.
4. **Registration Number:**
 - Shows the unique roll number assigned to each student for easy identification.
5. **Actions:**
 - **Edit:** A button that allows the user to edit the student's details. Clicking this triggers an AJAX request to fetch the student's current data and populate the form for editing without reloading the page.
 - **Delete:** A button that allows the user to delete the student's record. Before deletion, a confirmation prompt will be shown. Upon confirmation, the record will be deleted via an AJAX call to avoid page reloads.

Additional Features:

- **Table Search/Filter:**
 - An input field is provided to allow users to search or filter students based on the displayed columns (e.g., by name, course, or registration number).
- **AJAX Functionality:**
 - All edit and delete actions will happen asynchronously via AJAX, ensuring a smooth, uninterrupted user experience without page refreshes

Example: Student display page:

Student List

Search by Name:

Search by Registration Number:

Search by Course:

Select a course

Student Name	Course	Percentage of Marks in 10th Class	Registration Number	Actions
John Doe	M.P.C	85%	2024001	<div>EditDelete</div>

Type here to search

07:42 16-09-2024

Student List

Student Name	Course	Percentage of Marks in 10th Class	Registration Number	Actions
John Doe	Bi.P.C	85%	2024002	<div>EditDelete</div>
Hari gopal	M.P.C	85%	2024002	<div>EditDelete</div>
Nikihl	M.E.C	85%	2024004	<div>EditDelete</div>
alex	M.P.C	85%	2024005	<div>EditDelete</div>
smith	M.E..C	85%	2024006	<div>EditDelete</div>
james	C.E.C	85%	2024007	<div>EditDelete</div>
laurence	M.P.C	85%	2024008	<div>EditDelete</div>
Andrew	Bi.P.C	85%	2024009	<div>EditDelete</div>

Student List

Search by Name:

Search by Registration Number:

Search by Course:

Select a course

Student Name	Course	Percentage of Marks in 10th Class	Registration Number
John Doe	M.P.C	85%	2024001

Select a course

C.E.C

M.P.C

Bi.P.C

M.E.C