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MINI PROJECT REVIEW

SMART UNIVERSITY ADMISSION PREDICTOR: A WEB-BASED CUTOFF ANALYSIS SYSTEM

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ABSTRACT

The Smart University Admission Predictor is a web-based platform designed to simplify the university admission process by providing an intuitive and efficient system for predicting eligibility based on cutoff analysis.

The platform allows students to input their 12th marks or CGPA, select their degree type (UG/PG), and choose a department, after which the system provides a list of eligible universities within Coimbatore based on pre-defined cutoff criteria.

The Smart University Admission Predictor is designed to support students in making well-informed decisions about their academic futures while simplifying the complex process of university admissions.

PURPOSE

The purpose of this project is to develop a web-based University Admission Eligibility Predictor that helps students check their eligibility for engineering colleges in Coimbatore based on academic scores and degree preferences.

This system aims to streamline the admission process, offering students and administrators an intuitive platform to manage and access college eligibility information efficiently.

EXISTING PROBLEM

University admissions can be complex, with varying cutoff criteria across institutions. Students often face difficulties in determining their eligibility, leading to confusion and delays.

This system addresses these challenges by providing an integrated solution that automates eligibility checks, reducing manual effort and improving the overall admission process.

PROPOSED SOLUTION

The project provides a simple, web-based platform that helps students check eligibility, find colleges by district, and understand admission requirements easily.

The system provides real-time updates, an easy-to-use interface, and automated processes, ensuring students and administrators can manage the admission process smoothly.

The system should be user-friendly for students and administrators, even those with minimal technical experience.

SYSTEM SPECIFICATION

HARDWARE SPECIFICATION

- PROCESSOR: Intel Core i5 or i7, or equivalent AMD Ryzen processors.
- RAM: 8 GB of RAM
- HARD DISK: A solid-state drive (SSD)

SYSTEM SPECIFICATION

SOFTWARE SPECIFICATION

OPERATING SYSTEM: Ubuntu, Windows, or macOS.

FRONTEND: HTML, CSS, JavaScript.

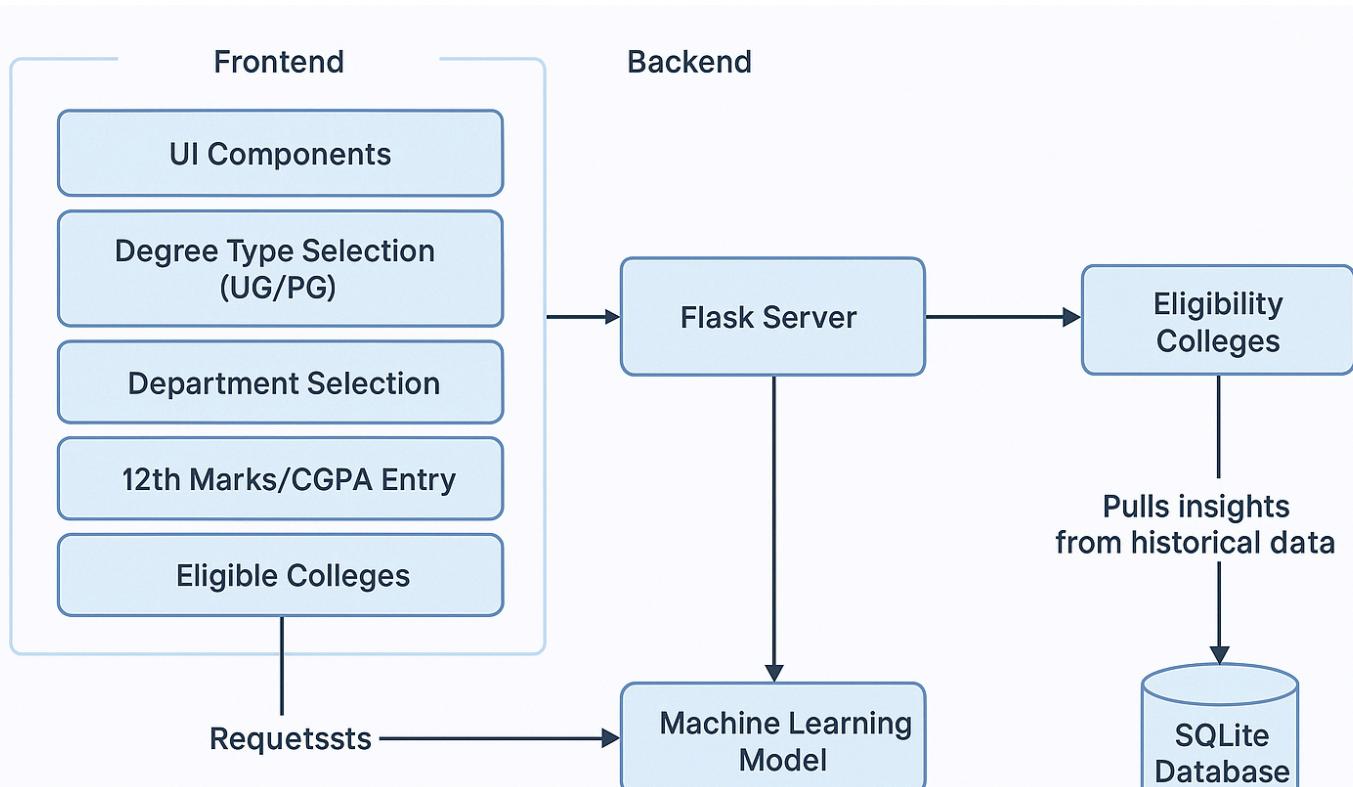
BACKEND: Python with Flask

DATABASE: SQLite

IDE: Visual Studio Code or any preferred code editor.

Deployment: GitHub Pages or Netlify for hosting the website.

SYSTEM ARCHITECTURE



Smart University Admission Predictor

LIST OF MODULES

- Login Module
- Student Registration Module
- Eligibility Check Module
- College Listings Module
- Feedback and Suggestion Module

MODULE DESCRIPTION

1. Login Module:

This module allows students and administrators to securely log in to the system using their credentials. It ensures that only authorized users can access specific features of the platform.

2. Student Registration Module:

This module allows students to register by providing their personal details, academic information (such as 12th marks or CGPA), and preferred degree program (UG/PG). It serves as the starting point for students to use the system.

MODULE DESCRIPTION

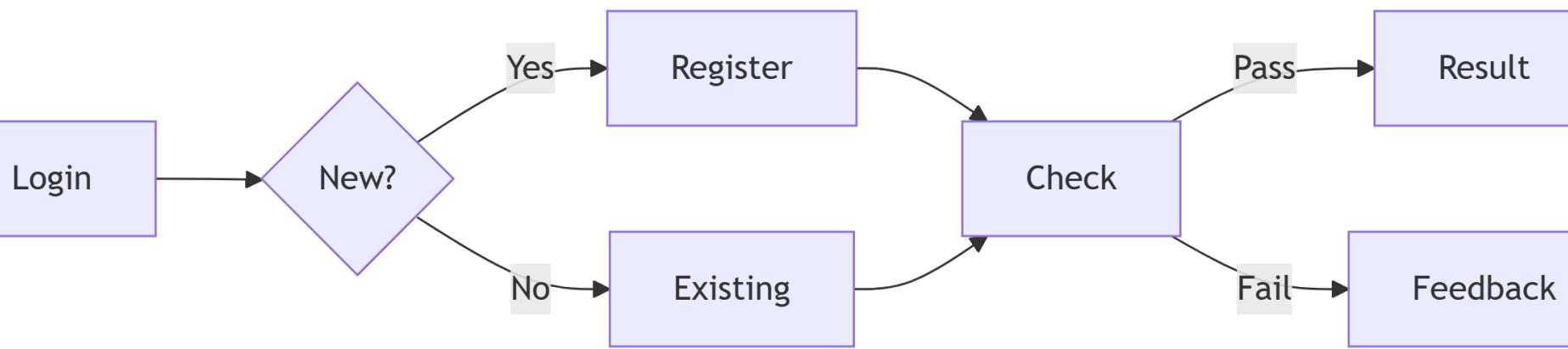
3. Eligibility Check Module:

This module checks the eligibility of students for various colleges based on their academic details and the selected course. It compares the entered data against the predefined eligibility criteria for each college.

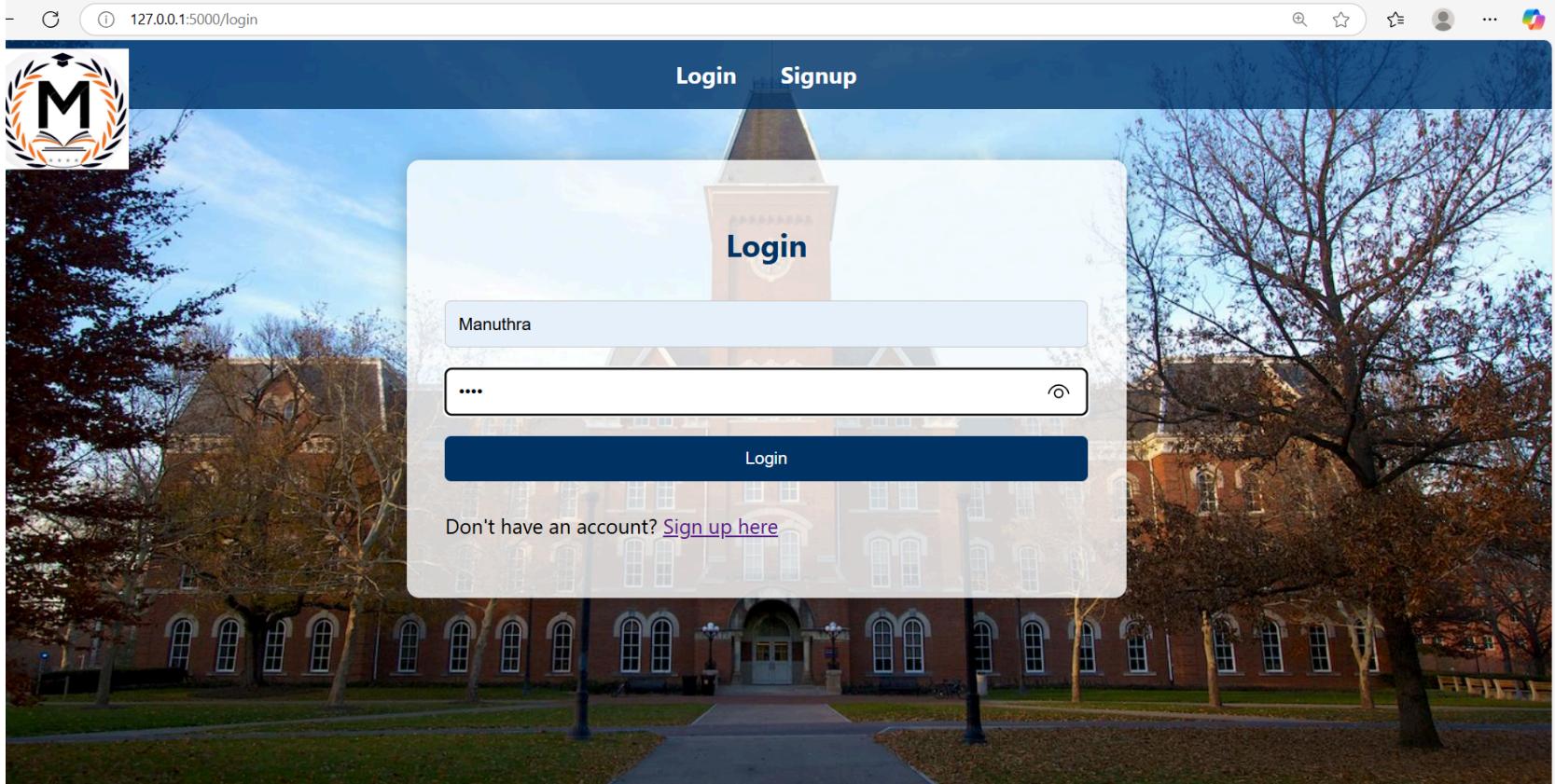
4. College Listings Module:

This module displays a list of colleges based on the district selected by the student. It filters colleges according to the eligibility criteria and provides key details such as course offerings, cutoff marks, and more.

DATA FLOW DIAGRAM



SAMPLE OUTPUT



SAMPLE OUTPUT

127.0.0.1:5000/degree-selection

Home Degree Selection Marks Input Eligible Colleges Logout

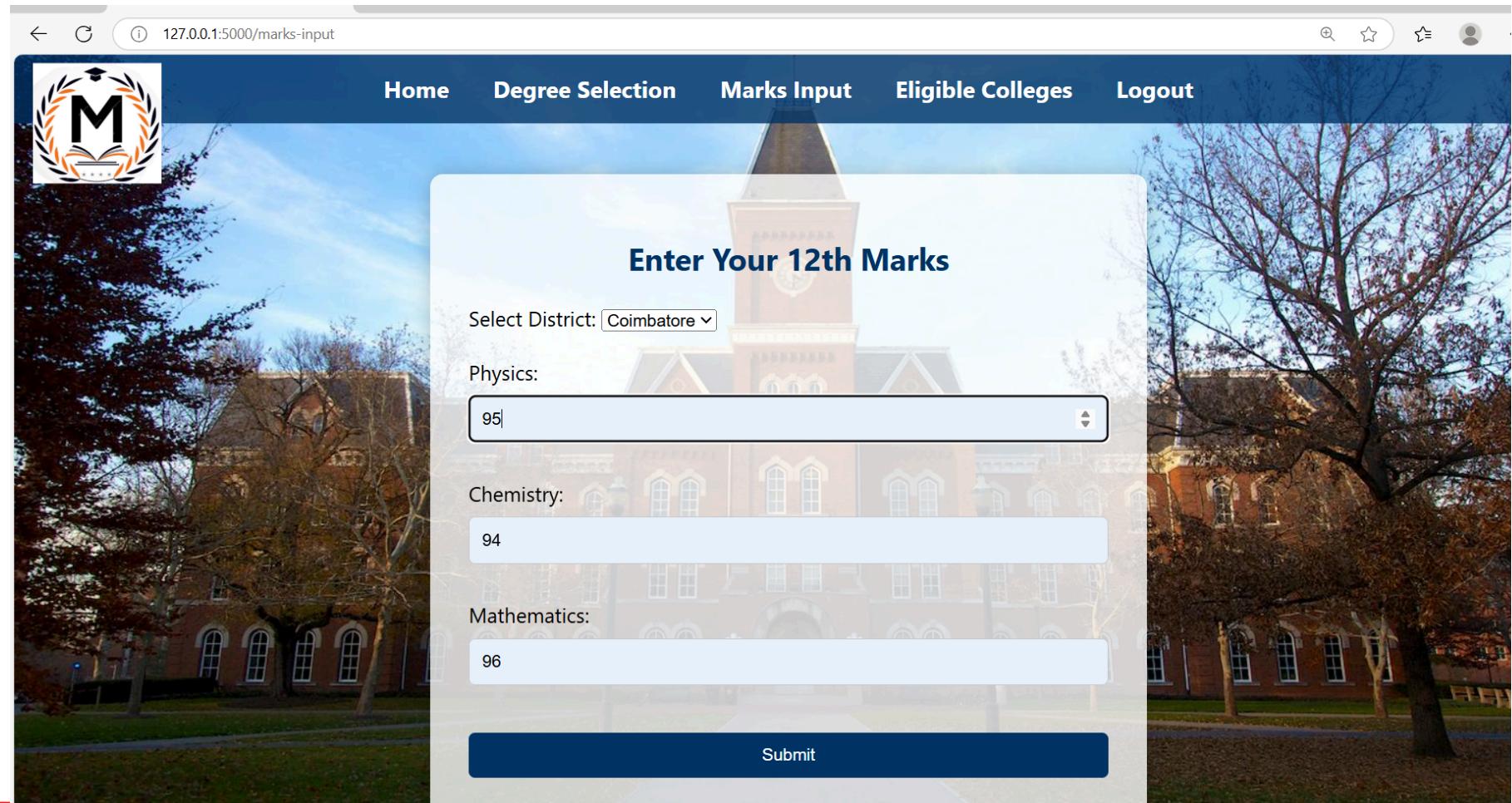
Select Degree and Department

Degree Type:
Undergraduate (UG)

Department:
Computer Science Engineering (CSE)

Next

SAMPLE OUTPUT



127.0.0.1:5000/marks-input

Home Degree Selection Marks Input Eligible Colleges Logout

Enter Your 12th Marks

Select District: Coimbatore

Physics: 95

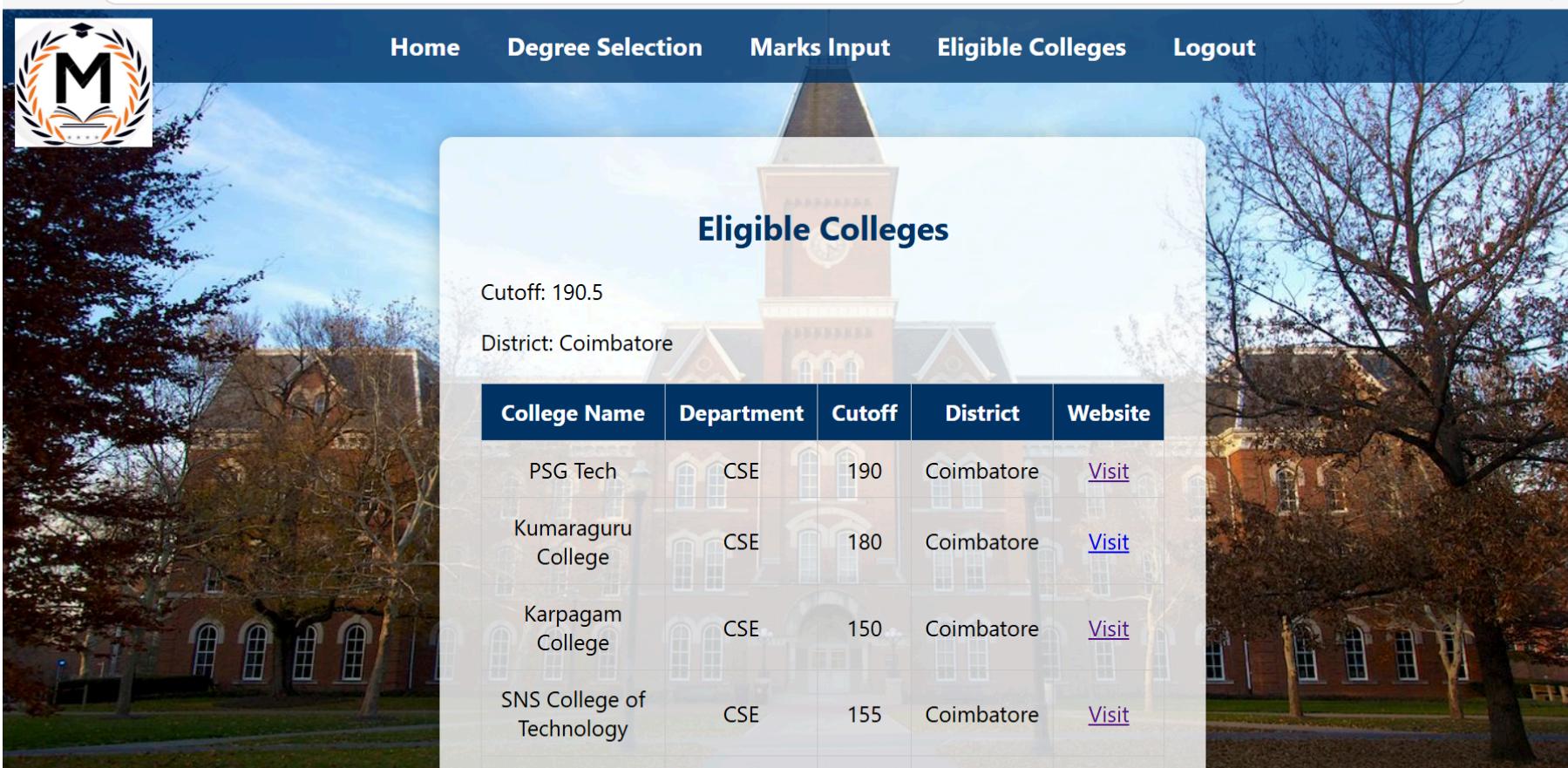
Chemistry: 94

Mathematics: 96

Submit

The screenshot shows a web application interface for entering 12th marks. The background features a photograph of a large, red-brick university building with a clock tower and surrounding trees. The main form is titled "Enter Your 12th Marks". It includes a dropdown menu for selecting the district (set to "Coimbatore"), and three input fields for Physics (95), Chemistry (94), and Mathematics (96). A "Submit" button is at the bottom. The top navigation bar has links for Home, Degree Selection, Marks Input (which is active), Eligible Colleges, and Logout. The address bar shows the URL "127.0.0.1:5000/marks-input".

SAMPLE OUTPUT



The screenshot shows a web application interface for "Eligible Colleges". At the top, there is a navigation bar with links: Home, Degree Selection, Marks Input, Eligible Colleges, and Logout. On the left side, there is a logo featuring a stylized letter "M" inside a laurel wreath. The main content area has a title "Eligible Colleges" and displays search results for "Cutoff: 190.5" and "District: Coimbatore". A table lists four colleges with their details:

College Name	Department	Cutoff	District	Website
PSG Tech	CSE	190	Coimbatore	Visit
Kumaraguru College	CSE	180	Coimbatore	Visit
Karpagam College	CSE	150	Coimbatore	Visit
SNS College of Technology	CSE	155	Coimbatore	Visit

CONCLUSION

Managing the university admission process can be complex and time-consuming. Our University Admission Eligibility Predictor System simplifies this process with a user-friendly platform that streamlines student registration, eligibility checking, college listings, and results display.

It helps students and administrators improve efficiency, reduce manual effort, and enhance the overall admission experience. Ultimately, it offers a comprehensive solution for a seamless admission process.

QUERIES?

Thank you