

**SYNOPSIS
ON
CSE(AI ML) WEBSITE**

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PROJECT SYNOPSIS ON CSE (AIML) WEBSITE

Problem Definition :

The purpose of this website is to provide appropriate information and latest updates regarding the events and academic programs of the CSE(AIML) branch of RCOEM. It aims to solve the problems prevailing in the manual system.

Website provides sufficient depth and information and would contain pages that are easy to navigate. The website would provide a safe environment for all the entities involved.

Project Objectives :

- To make management of the class error free, secure, reliable and easier
- To automate the registration of events, competitions and other updates
- Tracking the reach of the website by maintaining a visitor counter
- Live chat facility
- Displaying the achievements, projects and skills of the students at a single platform
- Making the placement information easily available to the students of the CSE (AIML) branch
- Making the website user friendly for students as well as teachers
- Provide latest news and faculty details of the CSE (AIML) branch
- Building a strong Alumni network through the Alumni portal of the CSE (AIML) branch
- Linking Student information via social media platforms such as LinkedIn
- Giving information about the courses offered by the department
- Keeping check of the current Time Table and sending notifications when it changes
- Reminders for exam scheduling
- Displaying Seminar information

Proposed plan of work :

- Creating a basic UI/ UX of the website
- The components of the website would be as follows :
 - Department and College logo
 - Navigation bar containing -
 - Home
 - About
 - Sections
 - Events
 - Alumni
 - People (Faculties, students)

- Research projects by the students of the branch
- Configuring back end of the website using APIs
- Collecting student information from the respective sections of the department
- Feeding and configuring the information of the database
- Giving proper login credentials to the faculties and students of the department
- Hosting of the website

Methodology :

- Designing wireframing using FIGMA
- Building the basic website using HTML
- Using CSS, JS and ReactJS to enhance the front end
- Using NodeJS, Python, PHP and other libraries for the back end
- Using Django to bring components of data and front end together
- Setting API calls, cookie preferences etc. using flask
- Collection of data from the department and storing the data using cloud services
- Hosting the full fledged website using GitHub Pages

Technology :

Software Specifications :

- Operating System: (Windows 7 or later, macOS Sierra 10.12 0r later, Ubuntu 14.04)
- Dreamweaver
- Mozilla Firefox, Google Chrome, Opera, Internet Explorer
- XAMPP Server
- Wordpress
- Google Analytics, Google Webmasters

Tech Stack :

- HTML
- CSS
- JavaScript
- ReactJS
- PHP
- NodeJS
- GitHub
- Cloud services (AWS/ Google Cloud)

Hardware Specifications :

- Memory : 2 GB minimum, 4 GB recommended
- Screen resolution : 1280x1024 or larger
- Required Active Internet Connection

Functional Specifications :

- Create a database with the information of all students in the branch
- Address the day to day issues like attendance and grievances
- Record the achievements of students both individually and as a group making it easier for the department to filter out students for various events/ competitions/ internship opportunities
- Attempting skill test on entering a particular skill by the student ensuring transparency and proof
- Sending reminders to the students when exams are approaching and when time table is changed

Project Scope :

In the era of online networking and automation of things to reduce human effort, we are developing this website to build better alumni connections, student teacher communication and exchange of information. This kind of informational networking site where important data regarding a particular branch can be accessed by the public can prove to be a boon in the branch related tasks. The scope of Intra-College Communication System is widening and this project can enhance just that.

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