Addis Ababa Science And Technology University

Online Registration System

Project Proposal

Participants

1. Abrham Tafere
2. Bewuketu Lake

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Introduction

Online registration system is a web-based platform that allows users to sign up, enroll, or register for an event, class, membership, or service over the internet. This system replaces the traditional paper-based registration process and provides a more convenient, efficient, and secure way of collecting and managing registration data.

Online registration systems have become increasingly popular in recent years due to the rise of internet usage and the need for remote accessibility. These systems offer a user-friendly interface that enables users to fill out forms, select options and submit their registration information from any device with an internet connection.

This online registration system that is going to be developed to digitalize the registration system of different universities and collages specially our university AASTU which is register us manually that creates discomfort and time consuming. Our system is build based on prior works and add some features that will be essential for the institution.

We propose this idea since, our university has no good registration system still now. Even most other universities in our country have this type of registration system, AASTU has not which opposes its name and goal. So, we try to add this feature to digitalizes the manual registration system. Overall, an online registration system is a powerful tool that streamlines the registration process, improves data accuracy, and enhances the user experience.

Problem statement

More than 7000 students are exist at AASTU. Which is takes time and need money workers to register manually. And also students want to register without coming to school because of different reasons. In the existing facilities this is impossible. This is why the online registration system is needed.

Purpose of the project

The purpose of this online registration system is to provide an efficient and streamlined process for students to enroll in academic programs or courses offered by educational

institutions. The system allows students to complete registration forms, submit required documents, eliminating the need for paper-based forms and in-person interactions.

Our online registration systems provide numerous benefits, such as improved accuracy and data quality, reduced administrative workload for staff, increased accessibility for students, and faster processing times. These systems also allow institutions to collect and analyze data related to student enrollment, which can be used to improve academic programs and services.

Overall, the purpose of an online student registration system is to enhance the registration experience for both students and educational institutions by providing a convenient, secure, and efficient platform for managing the enrollment process.

Objective

The objective of an online registration system is to provide a user-friendly and efficient platform for students to register for courses and manage their academic records. The system provides administrators with easy access to student data, allow them to manage course offerings and enrollment, and generate reports for analysis and planning purposes. Overall, the goal of an online student registration system is to improve the academic experience for both students and administrators.

Scope Of The Project

The scope of an online registration system project can vary based on the requirements and goals of the project. This could basically based on a web based system and that include developing a database to store data of the students, setting up secure authentication for login and registration , creating an intuitive user interface to attract students and other external users of the system, register and see what the courses are they are registered for , adding custom features and functionalities such as forms and selection processes, setting up an automated process for collecting data from external sources such as social media accounts or other sources, and testing the application to ensure it works correctly.

Limitations Of The Project

1. Security issues**:** Online registration systems may be vulnerable to malicious attacks that compromise sensitive data and cause disruptions in the service that means the data of students must be secure and their data have not been vulnerable to unauthorized person.

2. Data Privacy Concerns**:** storing customer or user data in an online, shared database for an extended period of time can present some security and privacy concerns that must be addressed before using this system.

3. Changes to Existing Policies And Procedures: implementing a new system will require adaptation of existing policies and procedures, which could create confusion or delays in the adoption process. All universities have their own rules and regulations and students may not adapt these rules within the given time limit and when the university amend some of policies there must be this system update.

4.Cost**:** launching an online registration system can be expensive, as it requires investment in technology and personnel to get it up and running properly. Additionally, there is the ongoing cost of maintenance to account for as well.

Methodology of the project

These are the methods we can follow to develop the best and smart online registration system

1. Identify System Requirements: The first step would be to determine the exact requirements for the online registration system - what type of information should be collected, how it should be stored and protected, what processes should it automate, according to the software requirement and engineering as we studied there are some types of requirement gathering methods and also these requirements must be collected directly from the stakeholders themselves.

2.Design Database Structure: Then we need to design the database structure that would store all the necessary information. This will involve creating tables and columns with data types suitable for storing all the required details such as names, emails, addresses, department ,Identification , batch and other necessary information.

3.Develop The Back End Server**:** the back end part of the system is the backbone of the whole system that interacts with the front part and with the database to store and fetch

data and respond to the request to the front end user. So that we develop or write multiple pages or components for the back end part of the project.

4.Ensure Security: Once the basic structure is sorted out, we will have to ensure that adequate security measures are in place to protect user data from unauthorized access or manipulation. This will include protecting from external attack vectors such as malware and scripting attacks while also limiting internal access privileges wherever possible.

5.Develop Front-End Interface: This system is needed to develop a front-end interface through which users can register on our website or mobile application using a standard web browser or mobile platform such as iOS or Android and other platforms.

The Significance Of The Project

The online registration system is important for organizations as it reduces the amount of paperwork associated with registering customers. It also speeds up the entire registration process by allowing customers to register quickly and easily from any location with an internet connection. Additionally, an online registration system eliminates data entry errors and helps the university to store customer information in a secure database that can be easily accessed for reporting or analysis.

The TimeLine Of The Project

Tasks	Start Date	End date
Proposal Submission	Mar 7 2023	Mar 7 2023
Requirement Gathering	Mar 8 2023	Mar 15 2023
Develop Front-end	Mar 16 2023	Apr 15 2023
Design Database	Apr 16 2023	Apr 28 2023
Develop Server	Apr 28 2023	May 28 2023
Testing UI Design	May 29 2023	May 29 2023
Test Back-end	May 30 2023	May 30 2023

| Test The Whole system with sample Data | June 1 2023 | June 1 2023 |
| Launch | June 4 2023 | June 4 2023 |