IIH College Admission Portal on the Enrollment Success on IIH College

I. Background of study

In this era of digitalization, getting different resources on different digital devices is making our lives easy and convenient. In academics, too, many educational websites share resources like brief notes, video lectures, presentations, books, etc., but none give class notes or question papers on strands taught in a particular senior high school. Many students struggle to get class notes when absent because of insufficient communication with their classmates or teachers.

We developed the project using the Django and Bootstrap framework. The backend consists of Python, Django, and SQLite3. We use Render, a GitHub online cloud service, to store data. We conducted black box testing to evaluate the website's functional, structural, and logical features. The development process followed the Iterative Model of Software Development. The idea was to add functionality and then design it, test it, and implement it. Although this method demands more resources with each iteration, the subsequent iterations take less time to develop. This method facilitated early detection and correction of errors.

The feasibility study helped us to enlist the major objectives.

1. **User Authentication and Role Management**: Carry out secure user authentication processes and role-based access control for students, teachers, and administrators.
2. **Student Enrollment Management**: Develop a streamlined process for student enrollment, including forms for capturing essential information and handling approvals.
3. **Course and Subject Administration**: Create functionalities for adding, editing, and deleting courses and subjects, allowing for flexible curriculum management.
4. **Teacher Management**: Set up a system for managing teacher profiles, including registration, the assignments, and performance tracking.
5. **Strand and Specialization Options**: Give options for students to select academic strands or specializations, facilitating personalized educational paths.
6. **Communication and Messaging System**: Carry out a messaging system for communication between students, teachers, and administrators, enhancing collaboration and support.
7. **Data Management and Reporting**: Enable data collection and reporting features for tracking student performance, enrollment statistics, and other key metrics for decision-making.
8. **User -Friendly Interface**: Design an intuitive and responsive user interface that enhances user experience for all stakeholders, including students, teachers, and administrators.

9. **Asynchronous Data Handling**: Incorporate asynchronous functionalities to improve the responsiveness of the application, allowing real-time updates without page reloads.

10. **Compliance with Educational Standards**: Make sure that the system meets relevant educational standards and regulations, providing a secure and compliant environment for managing student data.

We tested the project in in two ways. Black Box Testing, which is done by Users. The testers asked Users to run the project and check all the features. The feedback recorded and amendments made as required and White Box Testing, in which different test cases were made for each unit of source code and were tested. For each test case, the desired output was expected. When the desired output was not encountered, it led to a bug. Each error was removed from the source code and all units were integrated at last. The project is developed under the Django Python Web Framework. It encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of Web development, so we can focus on writing our app without needing to reinvent the wheel. We've designed the front end to be user-friendly, using efficient HTML, CSS, and JavaScript. The style is supported by Bootstrap, BootstrapCDN, jQuery, and jsdelivr. The Python Programming Language was used to code the back end. We easily achieve more functions with fewer lines of code using Python.

Python is used for the development process taking the security issues in concern. Python is more secure than several widely used programming languages. Django further helps enterprises to enhance the security of their websites and web applications by preventing a variety of security attacks — cross-site scripting (XSS), cross-site request forgery (CSRF), SQL injection, and click jacking. The web application is made to exchange data with the web-server securely by deploying the web application behind HTTPS. The security issues are resolved in order to prevent any unwanted attack on the database as well as the server.

II. Statement of the Problem

By removing current obstacles, the IIH College Admission Portal seeks to enhance student enrollment management. The study intends to pinpoint problems, assess the portal's effectiveness, and examine how it affects enrollment outcomes. The suggested portal might speed up administrative procedures, enhance user experience, and boost enrollment rates.

1. **Inefficient Student Enrollment Process**: Many educational institutions struggle with manual and cumbersome enrollment processes. This might result in delays, mistakes when entering data, and an inability to accurately track student details. The goal of this IIH College Portal is to offer a simplified online enrollment system.

2. **Lack of Centralized Information Management**: Schools frequently struggle with separate systems for students, teachers, and courses, making it tough to find accurate and current information. This IIHC College Portal aims to gather all relevant information in one place, simplifying data management and access for administrators.

3. **Challenges in Course and Subject Management**: Course and subject management can be challenging, especially when facing curriculum changes or new subject

introductions. Adding, modifying, or deleting courses and subjects is made simple through the repository's functionalities.

4. **Communication Barriers**: Effective communication among students, instructors, and administrators is critical to a successful educational experience. This IIH College Portal features a message system to improve communication, reduce misunderstandings, and foster cooperation.

5. **Inadequate Tracking of Student Progress**: Many schools do not have appropriate mechanisms for monitoring student performance and advancement. The IIH College Portal intends to develop data management and reporting tools that will allow for improved monitoring of student success and areas for improvement.

6. **User Access and Role Management Issues**: Institutions frequently struggle with managing various user roles and permissions, which can result in security issues and illegal access to critical information. The IIH College Portal solves this by adopting role-based access restriction, which ensures that users may only access information that is relevant to their roles.

7. **User Experience Concerns**: Many existing systems may not provide a user-friendly interface, making it difficult for users to navigate and utilize the system effectively. This IIH College Portal aims to create an intuitive and responsive user interface to enhance user experience.

8. **Compliance and Security Issues**: Educational institutions must follow a variety of standards governing data privacy and security. The IIH College Portal seeks to manage all student and instructor data safely and in accordance with applicable rules.

III. Hypothesis

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IV. Scope and Delimitation

Scope of the Study

This research examines the installation and impact of the IIH College Admission Portal on IIH College La Forteza Campus enrollment success. The major goal is to look at how a centralized admission portal may simplify the enrolling process, increase communication, and improve data management for prospective students and administrative personnel. Specifically, this research attempts to:

- Assess the present enrollment problems at IIH College.
- Evaluate the admittance portal's efficacy in resolving these concerns.
- Examine the relationship between the utilization of the admission site and enrollment rates.

The ultimate goal of the study is to give actionable insights that will lead to increased enrollment success and student satisfaction at IIH College Portal. We want to demonstrate how a well-designed admission portal not only simplifies the enrollment process, but also contributes to a more structured and efficient educational environment.

Delimitations of the Study

This study will not focus on the larger context of enrollment processes in educational institutions other than IIH College La Forteza Campus, as this has been extensively covered in previous studies. The focus is on the IIH College Admission Portal and its direct effect on enrollment success.

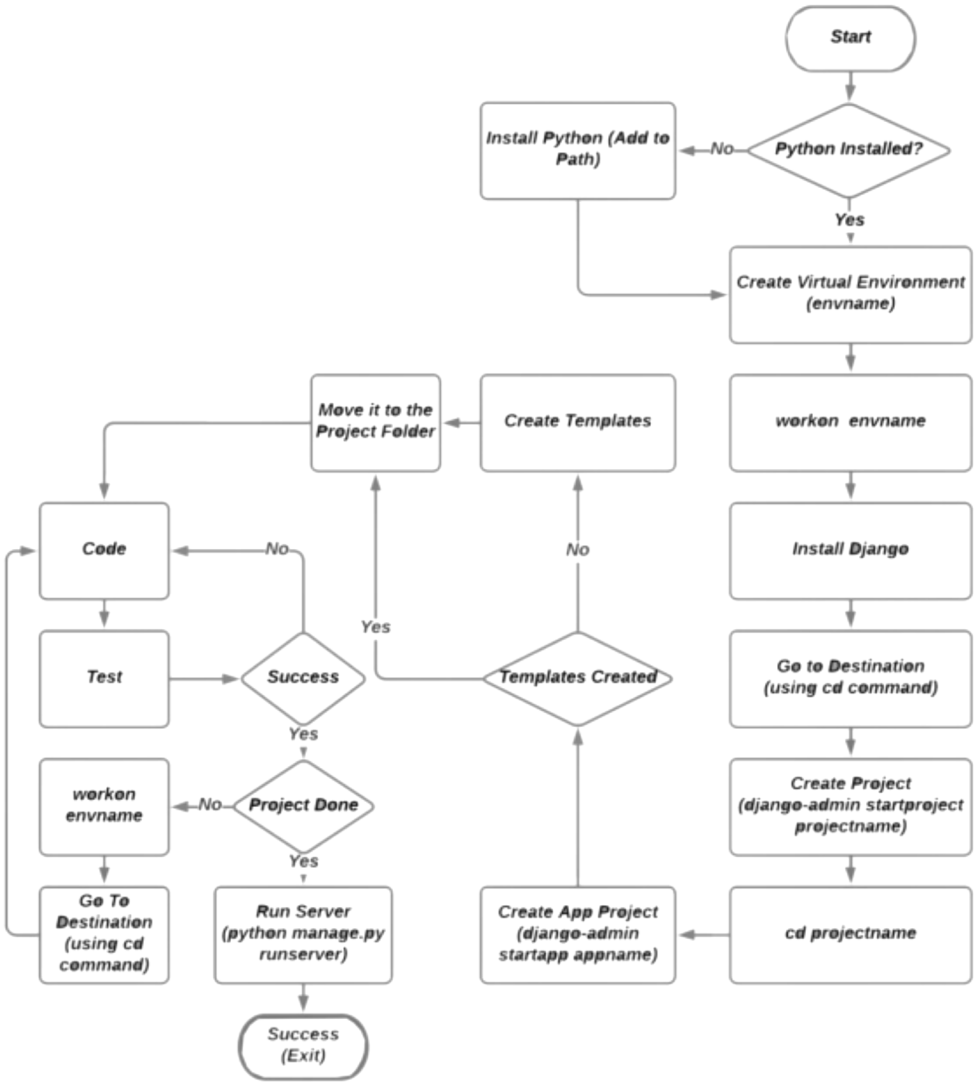
Reviewing or comparing other academic institutions' enrollment tactics to IIH College is not within the scope of this study. Moreover, the following criteria were removed from this study:

- External variables like as economic situations or educational policy changes have an influence on enrollment rates.
- Basic demographic evaluations of the student population that go beyond basic factors like age and course of study.

This study does not conduct a comprehensive analysis of all existing enrollment systems; rather, it draws on relevant studies that particularly address the difficulties and solutions associated with enrollment procedures in higher education institutions.

V. Definition of terms

Link
Django Book
https://books.google.com.ph/books?id=FnxeDwAAQBAJ&lpg=PP1&ots=yThMLcfviv&dq=school%20website%20portal%20researchers%20django%20State%20of%20the%20Problem%20&lr&pg=PP1#v=onepage&q&f=true


Start
Python Installed?
No
Install Python (Add to Path)
Yes
Create Virtual Environment (envname)
workon envname
Install Django
Go to Destination (using cd command)
Create Project (django-admin startproject projectname)
cd projectname
Create App Project (django-admin startapp appname)
No
Templates Created
Yes
Create Templates
Move it to the Project Folder
Code
No
Test
Success
Yes
Project Done
No
workon envname
Yes
Go To Destination (using cd command)
Run Server (python manage.py runserver)
Success (Exit)

Might use this later

Target Population and Setting

The study explores the target population of prospective students applying to IIH College during the academic year of 2024-2025. The geographical area of focus is the IIH College campus and its digital platforms related to the admission process. The data collection will occur over a period of six months, starting from January 2024 to June 2024, allowing for a comprehensive assessment of the admission portal's impact on enrollment success.

Research Design and Methodology

The research will be conducted using a mixed-methods design, combining both qualitative and quantitative approaches. Data collection tools will include surveys administered to prospective students and administrative staff, as well as an analysis of enrollment statistics before and after the implementation of the admission portal. Statistical analysis techniques, such as regression analysis, will be employed to evaluate the effectiveness of the portal in improving enrollment rates.

Conclusion of Findings

Through this study, we expect to find that the IIH College Admission Portal significantly enhances the enrollment process, leading to increased enrollment rates and improved student satisfaction. The research will conclude with recommendations for further improvements to the portal and suggestions for future studies on enrollment success in higher education.

The project after development was deployed on a public server with the domain www.render.com" still in process". The website is very user-friendly and easy to operate. This project will help students a lot in their educational life.