



ONLINE EXAMINATION AND EVALUATION SYSTEM USING PYTHON DJANGO

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ABSTRACT:

An Online Examination System is a web-based software system that enables institutes or industries to establish, oversee, and administer exams over an online platform. One challenge faced by manual examination systems is the occurrence of delays in the processing of results. Documenting is a challenge since it involves the complex task of sorting through documents. There is a significant risk of losing records, and the process of searching for specific records is both difficult and time-consuming, requiring considerable effort.

Key terms: Django, Online Examination System.

I. INTRODUCTION

Over the last several years, many examination methods have been developed. Over the last several years, many testing methods have arisen. This is an online program designed to administer examinations via the internet. The system has modules such as question bank, examination, test setup, examination administration, result calculation, result viewing, and test data storage. An administrator module designed to oversee the management of examinations, including questions and their corresponding alternatives. It offers a comprehensive website solution using Python technology, which includes features such as part enrollment, test administration, and result storage.

Efficient internet-based management system.

There are many reasons why the Django framework is a good choice:

Django is a freely available and open source web framework that is implemented in the Python programming language. It is widely used by a large number of programmers on an annual basis.

1) Django is efficient. It has been designed to assist developers in creating applications with optimal speed.

2) Django has a high level of security.

When working with Django, developers are guaranteed to avoid any security-related errors. The user belongs to him.

3) Django has a high degree of flexibility.

Django effectively handles content management, scientific computing systems, and large companies.

Scope

The field of web development is dynamic and always evolving. It is impossible to predict when a groundbreaking technology will emerge and completely transform the existing trends. Therefore, it is prudent to keep an eye on any emerging technologies that are gaining significant momentum and remain informed with the latest trends. Django is now being used by several websites, ranging from daily newspapers to social networking and sharing platforms, as well as prominent foundations and organizations.

Given Django's origins in the newsroom, it is not unexpected that prominent daily newspapers

such as the Washington Post and The Guardian depend on it. Startups like as Eventbrite and Discus have used Django to rapidly expand their operations, while social media giants like Instagram and Pinterest have employed it to support their interactive online applications.

Requirement

Efficiently assess the learner comprehensively using a fully automated approach that not only saves significant time but also provides rapid and precise findings. Students may conveniently take exams from any place utilizing the Internet, without the need for supplementary materials such as pens and papers. In order to address these issues, a computerized system was necessary to manage all the tasks. The client requested a web-based application that offers a flexible working environment, enhances efficiency, and reduces the time necessary for report preparation and other paperwork.

II. PROJECT OBJECTIVES

- a) Provides complete site solution with python technology, including part enlistment, giving tests, storing of results. Complete online organization
-) The administrator likewise can change the Question must give answer type like different right answer choice and one right answer choice. Test screen must give alternatives likewise.
- c) System must able to calculate the examination marks and display the result quickly after completing the exam.
- d) System has incredible logical access the executives set up, every client must be recognized by client email id and secret key confirmation strategy is connected to verify the examination framework.
- e) This web application takes care of authentication of the administrator, Instructor and the student. The advanced computerized

system is developed with the aim to get over the drawbacks of existent manual system.

III. PROPOSED SYSTEM

The modern computerized system is developed with the aim to overcome the drawbacks of existing manual system. We have study manual examination system of ABC College and identify possible automation. The proposed system has got many advantages. People from different parts of the world can register very easily. The new system is more personalized. It is maze in such a manner that all the new users can understand all the options in it very easily. It is made in a quick and easy referential manner. Access to all important matters are not always locked and can be opened easily at the time of urgency. The advantages of proposed system are that security is maintained in the new system.

A. System Design

A data flow diagram (DFD) is use a very small number of primitive symbols to represent the functionality performed by the project and the flow data among the different functions of the project.

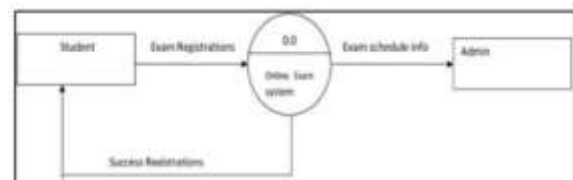


Fig. 1: DFD Level 0

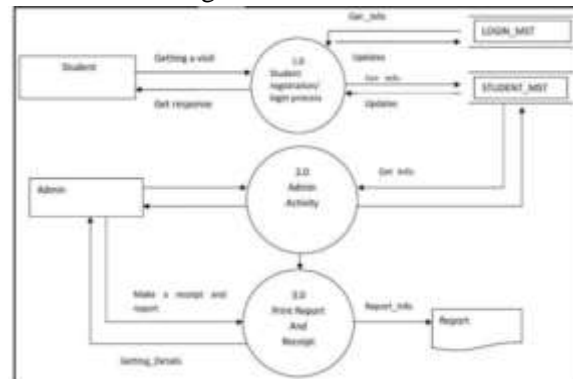


Fig. 2: DFD Level 1



The data flow diagram depicted in figure B below shows the relationship among the entities in the Online Examination system. The entity “USER” can give exam after he or she registered to the online examination system.

IV. IMPLEMENTATION

In computer science, an implementation is a realization of a technical specification or algorithm as a program, software component, or other computer system. Many implementations may exist for a given specification or standard.

A. Registration in Website

- 1) Step 1: Start.
- 2) Step 2: Register to the website.
- 3) Step 3: click on login button.
- 4) Step 4: New user can register in register page.
- 5) Step 5: Once the user registered, provide the user name and password in Login page.

B. Conduct the Exam

- 1) Step 1: Start
- 2) Step 2: Click on start button.
- 3) Step 3: Student will wait for the exam and during exam he can exit.
- 4) Step 4: Then click to end exam.

V. CONCLUSION

We have developed an online exam administration system using the computer language Python. We chose Python over other languages to minimize the need for developing extra code and to ensure the service remains easy to maintain. The Online Examination System is a web-based program. The primary objective is to reduce the quantity of paper and transform all types of documents into digital format. It is evident that the necessary information may be easily retrieved using a computerized system. Even those with little computer literacy may simply run the system. The development of an online examination system may initially pose challenges, but if implemented, it will effectively alleviate the

issues encountered by colleges and universities both before to and after examinations.

An online test method minimizes the need for resources such as paper and ink, and also streamlines the time-consuming process of evaluating marks.

We create and build the digital assessment platform.

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