Django Framework based Online Examination System

Prof. G. M. Poddar[1] Patil Prathmesh Shantilal[2] Thakur Harshal Dilip[3] Jagtap Virendra Hiralal[4]

[1,2,3,4]Department of Computer Engineering

[1,2,3,4]Gangamai College of Engineering Nagoan, Dhule, India

Abstract— An Online Examination System is a web software solution, which allows any institute or industry to set up, direct and manage examinations via an online environs. A portion of the issue looked by manual examination frameworks is delays in result handling. Documenting represents an issue, sifting of records isn't simple, the shot of loss of records is high and furthermore record looking is troublesome and takes part of time and exertion.

Keywords: Django, Online Examination System

I. INTRODUCTION

In the past several years, many examination systems have emerged. In the past several years, many examination systems have emerged. It is a web based application to conduct examination online. It has modules like question bank, examination, test setup, giving examination, calculate results, view results, store test data. Administrator module to manage examination, questions and its options. It can Provides complete site solution with python technology, including part enlistment, giving tests, storing of results. Complete online organization.

A. Why Django Framework?

Django is a free, open source web framework written in the Python programming language and used by millions of programmers every year.

1) Django is Fast

This has been designed in a way to help the developers make an application as fast as possible.

2) Django is Secure

When you are doing it in Django, it is ensured that developers don't commit any mistakes related to security. His user.

3) Django is Flexible

Content management, scientific computing platforms, and even big organizations, all these aspects are very efficiently managed by the use of Django.

B. Scope

The state of web-development is in a constantly changing and we can never surely say when a game changer technology would come and change the current trends entirely, so it would be wise to take a peek into any new technology that is gaining enough momentum and stay updated with the current trends. Thousands of websites are currently using Django, from daily newspapers to social media and sharing sites to major foundations and nonprofits. Since Django was originally developed for use in the newsroom, it's no surprise that major daily publications like the Washington Post and The Guardian rely on it. Startups like Eventbrite and Discus have relied on Django to scale quickly, while social media behemoths like Instagram and Pinterest have used it to power their dynamic web apps.

C. Need

Effectively evaluate the student exhaustively through a totally automated system that not only saves lots of time but also gives fast and exact results. For Students they give exam according to their convenience from any location by using Internet and there is no need of using additional thing like pen, papers, etc. To solve these problems, they required a computerized system to handle all the works. They required a web based application that will provide a working environment that will be flexible and will provide ease of work and will reduce the time for report generation and other paper works.

II. PROJECT OBJECTIVES

a) Provides complete site solution with python technology, including part enlistment, giving tests, storing of results. Complete online organization

b) 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.
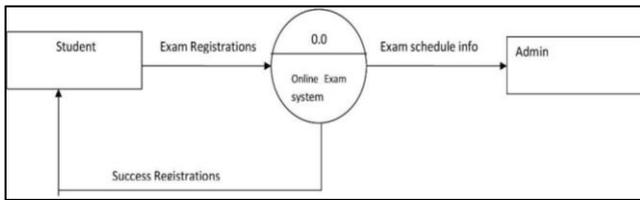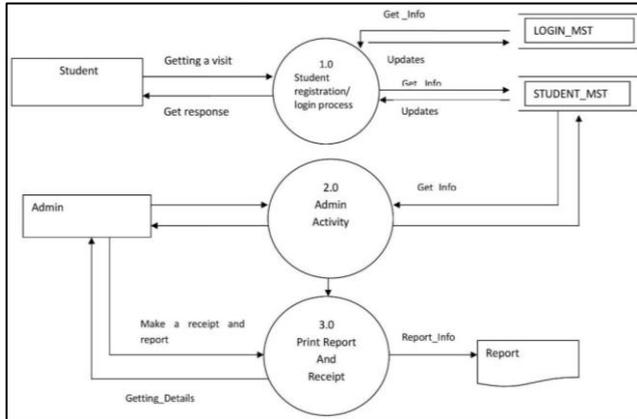
Fig. 1: DFD Level 0

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 implemented an online exam management using python, we had preferred python rather than from other programming languages to avoid writing additional code and keep application maintainable. This Online Examination System is a web application. The key concept is to minimize the amount of paper and convert all forms of documentation to digital form. It can observe that the information required can be obtained with ease and computerized system. The user with minimum knowledge about computer can be able to operate the system easily. It can be said that online examination system seems hard to develop but once it is developed it will reduce the difficulties faced by colleges/universities before and after the examination. Online examination system reduces the need of resources like paper and pen and also reduces the time killing process of marks evaluation.

We design and develop the online examination system.

REFERENCES

[1] Pooja Mahesh and K Selvajyothi, "Impersonation Detection in Online Examinations," IEEE 2017
[2] Swathi Prathish, Athi Narayanan S and Kamal Bijlani, "An Intelligent System For Online Exam Monitoring," IEEE 2016
[3] Ambarish Kulkarni and Swapnil Adewar, "Digitilized Examination System: A Strong Step towards Quality Improvement," International Conference on Electrical, Electronics, and Optimization Techniques(ICEEOT)-2016
[4] S. G. Anuradha, B. Kavya, S. Akshatha, K. Jyothi, G. Ashalatha, "Automated face detection and recognition for detecting impersonation of candidate in examination system", International Journal of Scientific & Engineering Research, Vol. 7, Issue 3, ISSN 2229-5518 (March 2016)
[5] N. A. Karim, Z. Shukur, "Using preferences as user identification in the online examination", International Journal on Advanced Science Engineering Information Technology, Vol. 6, No. 6, ISSN 2088-5334 (2016)
[6] K. Patrick, Dr. S. O. McOyowo, Dr. H. O. Okoyo, "Addressing impersonation treats in online assessment environment using temporal information and systems interactions", Merit Research Journal of Education and Review, Vol.3, pp. 215-220, ISSN: 2350-2282 (June 2015).