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Online Examination Portal Using Face Authentication

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ABSTRACT: This document will include all features and procedures which are required to develop the system. This document includes special details about objectives of the system, system scope limitation, system process model, primary system requirements, team development, probable project risks, schedule of the, and finally monitoring and reporting mechanisms for the entire system. Online Examination Conducting Portal is very useful for Educational Institute's to prepare an entire exam, save the time that will take to check the paper and prepare mark sheets and secured by Face Authentication. E-Examination system will help to the educational Institute to test students and development their skills. But the disadvantages for e-Examination system, it takes a more time when user prepares the exam at the first time for usage. And to take the exam we require the number of computers with the same number of students. The effective use of e- Examination Portal, the coordinator can use this system to develop the tests as their requirements, and for getting better results in less time and secured by Face Authentication.

KEYWORDS: Examination Portal, Registration, Simple User Experience, Face Authentication, SMS, View Result

I. INTRODUCTION

Online Examination Portal forms the lifeline of the Educational Institutes to the functioning of the Examination. It is very essential for an Institute to handle the Examinations and their results with security measures using Face Authentication. It is very useful for an Institute to test its students continuously for their mutual development. This system is helpful for conducting Multiple Choice Examinations which can be conducted regularly as well as for surprise tests and provides immediate results saving the precious time of faculties to check the papers and prepare mark sheets with security of Face Authentication. The IT initiatives have encouraged various Organizations to develop systems to facilitate their day-to-day operations. The Online Examination Portal will include various Courses and subjects for conducting examinations. This system helps in conducting examinations quickly securely and can thus help in saving time and the operations will be carried out efficiently. With the effective use, any Institute can apply the Online Examination Portal for conducting quick examinations and getting better results.

II. LITERATURE SURVEY

Many different researches have focused on the subject of an online examination system these works can be represented as following:

Bhagwan et.al [1] This document will include all features and procedures which are required to develop the system. This document includes special details about objectives of the system, system scope limitation, system process model, primary system requirements, team development, probable project risks, schedule of the, and finally monitoring and reporting mechanisms for the entire system.

Rishish et.al [2] examination systems are very popular these days due to limitations of our traditional examination system i.e., chances of human error, handling or records manually, time killing process of marks evaluation and it also need more time for preparation. Universities needs to deploy online examination system for their internal/sessional

examinations. These types of examinations consist either MCQ or true/false based questions, which can be successfully conducted by online examination system.

Deepankar et.al [3] This Online Examination System is a software solution, which allows any industry or institute to arrange, conduct and manage examinations via an online environment. It can be done through the Internet/Intranet and/ Local Area Network environments.

Choubey et.al [4] Online examination system is a web-based examination system where examinations are given online. Either through the internet or intranet using computer system. The main goal of this online examination system is to effectively evaluate the student thoroughly through a totally automated system that not only reduce the required time but also obtain fast and accurate results.

Muna R et.al [5] Online examination system is a web-based examination system where examinations are given online. either through the internet or intranet using computer system. The main goal of this online examination system is to effectively evaluate the student thoroughly through a totally automated system that not only reduce the required time but also obtain fast and accurate results.

Dipali et.al [6] Online examination was developed to examine the student's technical knowledge. Due to increasing in industry online examination came into existence for example like Aptitude test or placement purpose.

Rajesh et.al [7] The use of online tools to teach courses in various disciplines has gained popularity in the past decade. assessment is an essential activity to achieve the objectives of the course being taught to improve the teaching and learning process.

III. PROPOSED METHODOLOGY

Online Examination Portal saves the exams information in a database, teachers can add/delete questions, set the correct answers, specify the exam period, register students, delete students, show questions for students randomly, calculate and show the final results for students.

A. System design

The online examination portal uses client/ server architecture. At the client by using a web browser can connect via internet or local host with the server where PHP and MySQL in the server side are responsible for the preparing exams processes and save and return data from database.

1.Login system

Login system contain the following programs

➤ Login as HOD

By using already stored a HOD name and password the individual can log on to the system any time he/she desires as an HOD to manage the HOD activities. Logging is successful only if the input detail is matched with the database, else an error message is displayed.

➤ Login as Teacher

By using already stored a teacher name and password the individual can log on to the system any time he/she desires as a teacher to manage the Teacher activities. Logging is successful only if the input detail is matched with the database, else an error message is displayed.

➤ Login as Student

The information of each student will be sorted by the HOD upon the registration process, enabling this way the particular student to log on the system without having to undergo the process of registration again. Logging is successful only if the input detail is matched with the database, else an error message is displayed.

2. HOD activities

HOD activities contain the following programs:

- **Questions management**
 - Managing questions contain two main operations:
 - Adding Questions: include adding three types of questions according to the admin desires either (true/false, multiple choices, image matching).
 - Deleting Questions: include deleting questions of the three types of questions (true/false, multiple choices, image matching).
- **Students' management**
 - Managing students contain two main operations:
 - Registering students: include inserting the information of each student (student name, email, and password) to complete the registration process.
 - Deleting student: by inserting the (name and email) of the student to be deleted the admin can delete any student.
 - Result management: show all students results.

3. Teacher Activities

- Teacher supervise and monitor student using face authentication.
- Allow Students to Enter Exam.
- Time Table Management (Sets Date and Time).

4. Student's activities

Student activities contain the following operations:

- **Give the exam:**
 - After the student logging in, a group of questions will be displayed to him to start and give an exam.
- **Get the results:**
 - After answering all the questions in a specified period, the student will finish the exam and his/her degree will be displayed on the screen.

B. Database design

In order to fully use MySQL server technology, it is essential to make sure that the database is well designed. The files names chosen to label all the tables created within the database attempt to reflect the table's purpose and, therefore, contribute to well-design system. The minimal step in designing was to decide, according to the requirements and specifications of the project, which tables should be created, and what type of information each one should hold.

IV. SOFTWARE REQUIREMENT

- Web Browser : IE 8.0 / Chrome or Above.
- OS : Windows 07 and above
- Software : Eclipse, Xampp, Apache Tomcat.
- Front End : CSS, HTML, JAVASCRIPT.
- Back End : MySQL

V. PROPOSED SYSTEM DESIGN

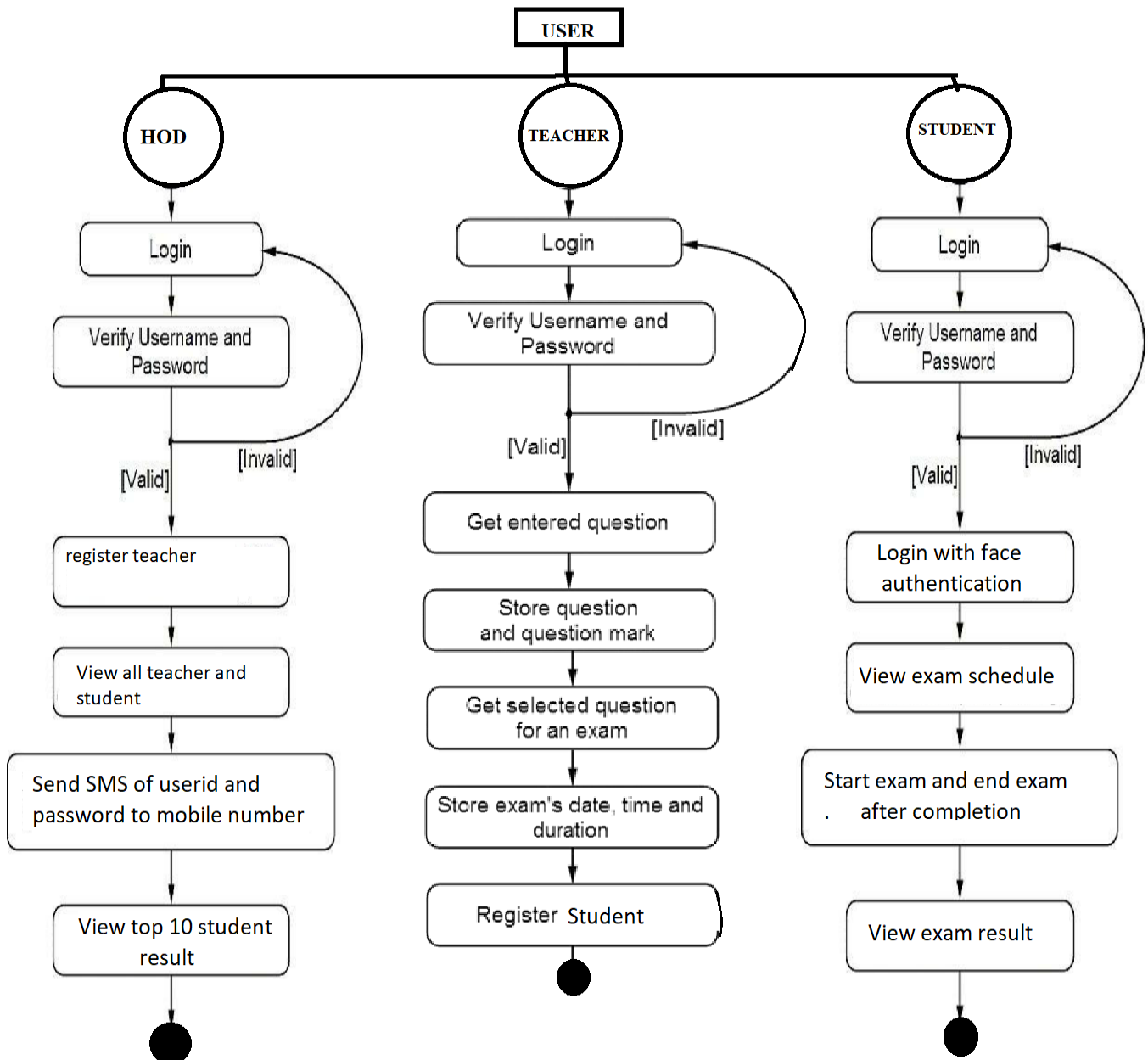


Figure 1. State diagram

VI. IMPLEMENTATION AND RESULT

An online examination portal is an online platform that is dedicated to conducting online tests of any kind. Mega Exams is one such example of an online test portal that is free and accessible to everyone. These Online ExaminationPortals provide the test maker and the test taker with multiple functions and features that make their exam comfortable securely using Face Authentication and free from errors. In other words, an online test software is a platform that is used to create online tests, set practice question papers, conduct online exams ensure student by Face Authentication and evaluate results instantly. Using such an online exam software makes exams more accessible and eliminates all the hinges of a pen and paper exam.

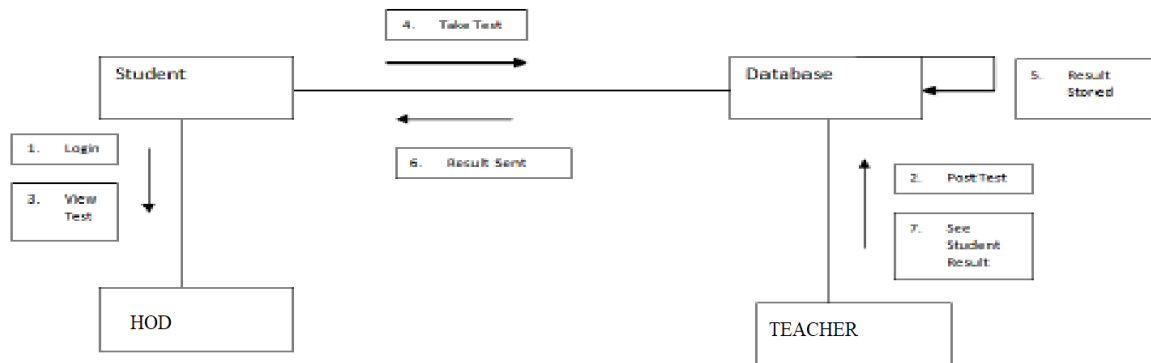


Figure 2. Collaboration diagram

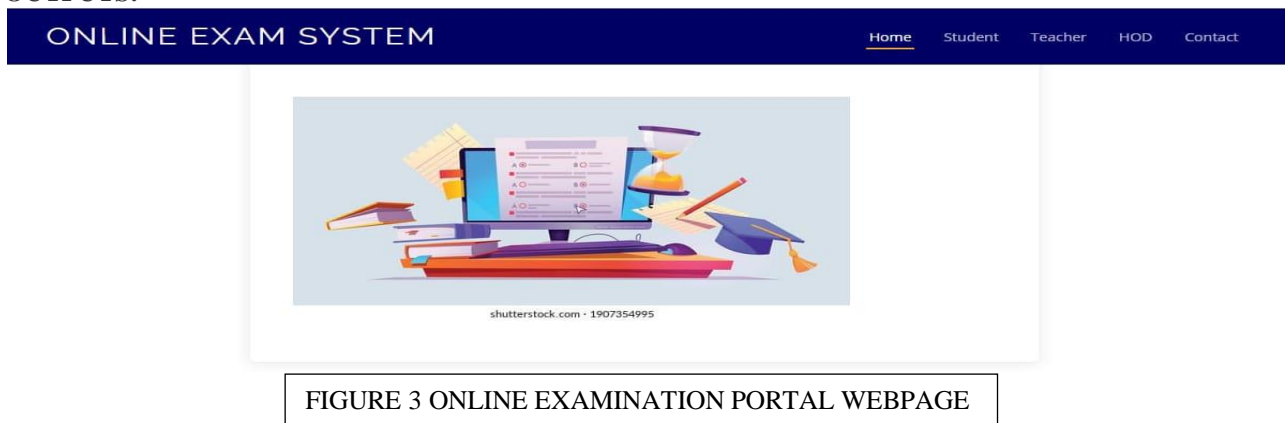
Advantages:

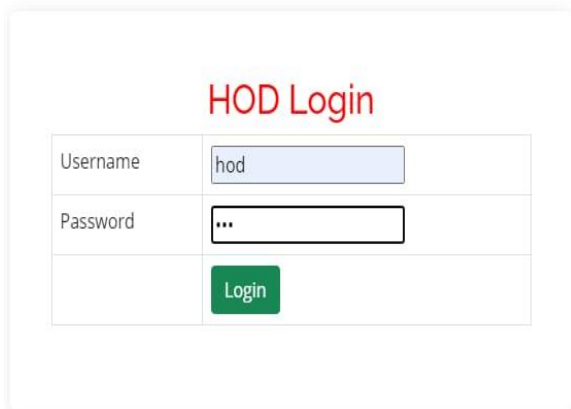
- Economical
- Quick Turnaround Time
- Highly Secure
- Easy-to-use
- Face Authentication

Disadvantages:

- Challenges in Technology Adoption
- Infrastructural Barriers
- Difficulty in Grading Long-answer Type
- Susceptible to Cheating
- Transitioning to Open-Book Exams

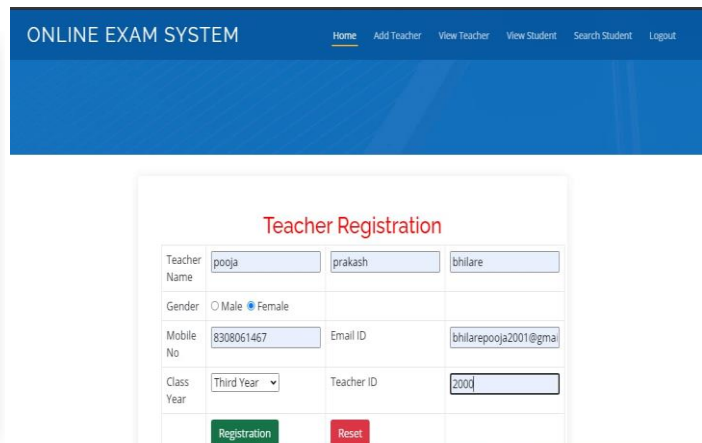
OUTPUTS: -





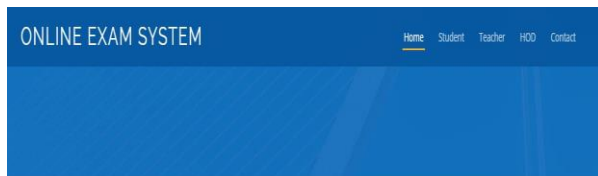
The screenshot shows the 'HOD Login' page. It has a title 'HOD Login' in red. Below the title is a form with two input fields: 'Username' with the value 'hod' and 'Password' with masked characters '***'. There is a green 'Login' button below the password field.

FIGURE4.HOD LOGIN

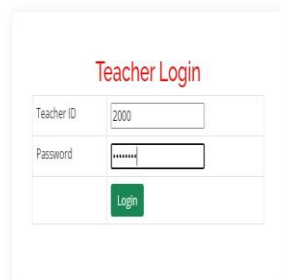


The screenshot shows the 'Teacher Registration' page. It has a title 'Teacher Registration' in red. The form includes fields for 'Teacher Name' (pooja, prakash, bhilare), 'Gender' (radio buttons for Male and Female, with Female selected), 'Mobile No' (8308061467), 'Email ID' (bhilarepooja2001@gmail), 'Class Year' (Third Year dropdown), and 'Teacher ID' (2000). There are green 'Registration' and red 'Reset' buttons at the bottom.

FIGURE5.HOD REGISTER TEACHER

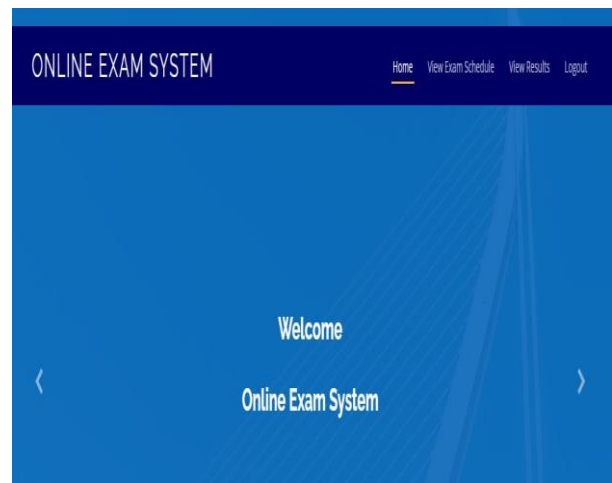


The screenshot shows the header of the 'ONLINE EXAM SYSTEM'. It has a blue background with the title 'ONLINE EXAM SYSTEM' on the left and navigation links 'Home', 'Student', 'Teacher', 'HOD', and 'Contact' on the right.



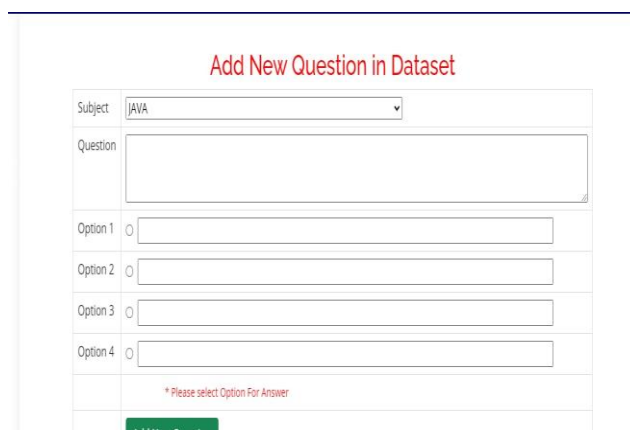
The screenshot shows the 'Teacher Login' page. It has a title 'Teacher Login' in red. The form includes fields for 'Teacher ID' (2000) and 'Password' (masked with '*****'). There is a green 'Login' button below the password field.

FIGURE6. TEACHER LOGIN



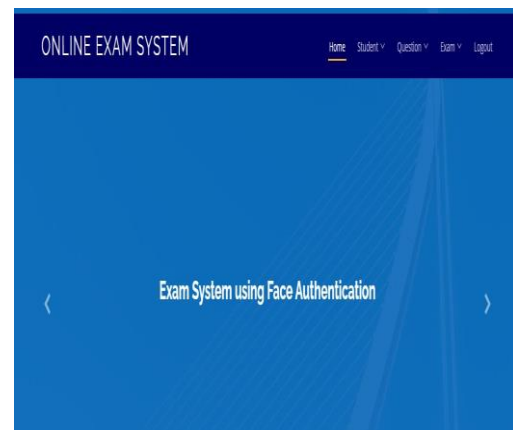
The screenshot shows the 'Teacher Activity' page. It has a blue background with the title 'ONLINE EXAM SYSTEM' at the top. The main content area says 'Welcome' and 'Online Exam System' in white text. There are navigation arrows on the left and right sides.

FIGURE 7.TEACHER ACTIVITY



The screenshot shows the 'Add New Question in Dataset' page. It has a title 'Add New Question in Dataset' in red. The form includes a 'Subject' dropdown menu (set to 'JAVA'), a 'Question' text area, and four 'Option' input fields (Option 1, Option 2, Option 3, Option 4). There is a red asterisk warning '*Please select Option For Answer' and a green 'Add New Question' button at the bottom.

FIGURE 8.ADDS TESTS QUESTION



The screenshot shows the 'Face Authentication page'. It has a blue background with the title 'ONLINE EXAM SYSTEM' at the top. The main content area says 'Exam System using Face Authentication' in white text. There are navigation arrows on the left and right sides.

FIGURE 9. FACE AUTHENTICATION PAGE

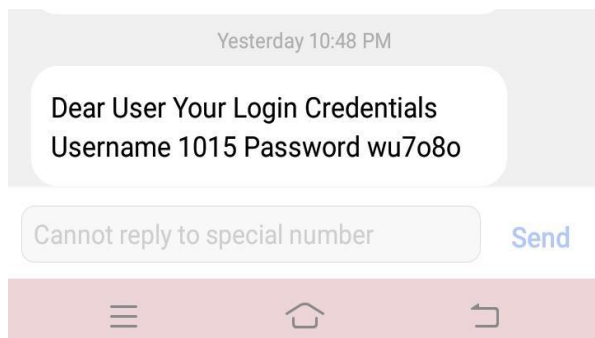


FIGURE 10. SMS SENT TO STUDENT

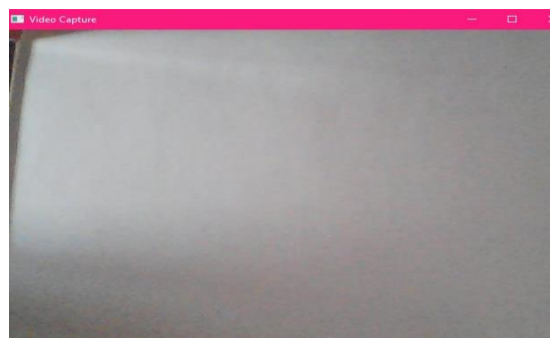


FIGURE 11. FACE AUTHENTICATION

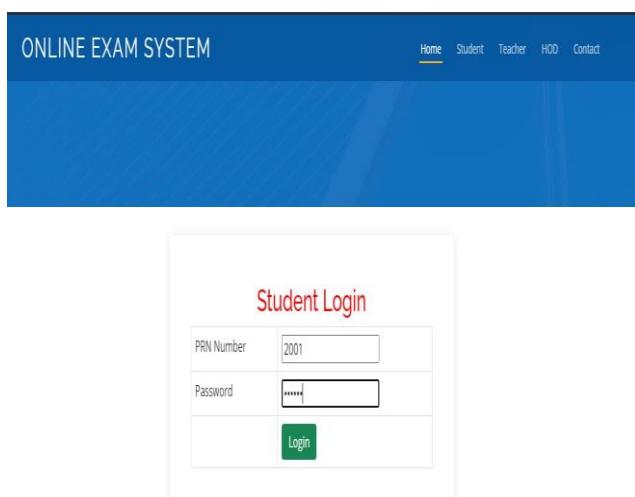


FIGURE 12. STUDENT LOGIN

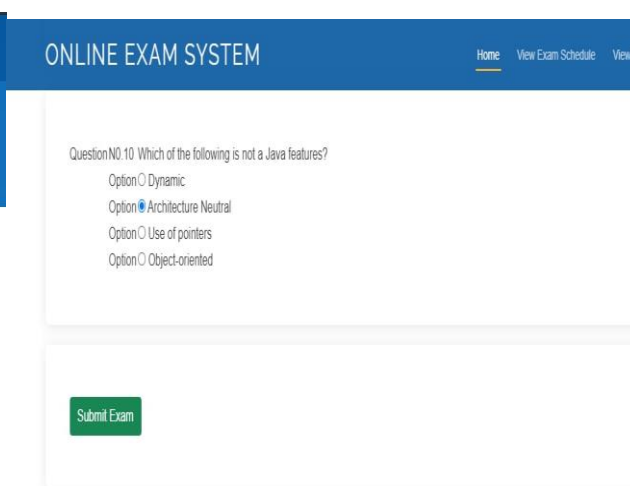


FIGURE 13. GIVE TEST AND END TEST

VII. CONCLUSION AND FUTURE WORK

Online examination portal is a user-friendly system, which is very easy and convenient to use. The system is complete in the sense that it is operational and it's tested by entering data and getting the reports in proper order monitored by Face Authentication. But there is always for improvement and enhancement. Online Examination Portal is widely used as compared to other exams. Online examination Portal can be used in private institutes as well as educational institution. As it is user friendly web base application it can be used anywhere and anytime. Every software may have some cases of bugs, errors, security related problems or system faults. There are many problems or system faults for example; computer collapse or crashes due to power supply problem will invalidate efforts of number of students. There are large numbers of chances in which software may produce wrong results or may display invalid data. These bugs must be identified and solved for improving quality of software. So, in future we can develop more secure software by using advanced technologies.

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