EXAMINATION PORTAL

Submitted by

- > Pratyusha Ghosh (WBUT Roll: 14800116079 Class Roll: 16/CSE/22)
- > Shreyashi Kundu (WBUT Roll: 14800116045 Class Roll: 16/CSE/50)
- ➤ Ankit Sinha (WBUT Roll: 14800117118 Class Roll: 16/CSE/08)
- ➤ Antik Chowdhury (WBUT Roll: 14800116115 Class Roll: 16/CSE/28)

Under the guidance of Prof. Ratul Chowdhury Assistant Professor

Department of Computer Science and Engineering

Future Institute of Engineering & Management

(Affiliated to Maulana Abul Kalam Azad University of Technology, West Bengal) Kolkata-700150, WB

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PROBLEM DESCRIPTION

Today online examination portals have become a fast-growing examination method because of its speed and accuracy. It is also needed less manpower to execute the examination. Almost all organizations now-a-days, are conducting their objective exams by online examination system, it saves students time in examinations.

Organizations can also easily check the performance of the student that they give in an examination. As a result of this, organizations are releasing results in less time. It also helps the environment by saving paper. Examination portal has been designed according to today's requirements.

The purpose of this document is to present a detailed description of the Examination Portal. It will explain the purpose and features of the system, the interfaces of the system, what the system does, the constraints under which it must operate and how the system will react to external stimuli.

Functional Requirements

Following are the services which this system will provide. These are the facilities and functions required by the customer.

- <u>Login system</u>: A user or an admin can login with their credentials to access different components of the application.
- Online data entry by the Admin: To keep updating the questions of any test topic, the admin can manually access the test editing page and add or remove questions with answer keys.
- <u>Online automated result generation</u>: The results are generated instantaneously as the stored answer key is matched with the user answer key in real time.
- <u>User History Checking</u>: If the user wishes to check or analyze precious test performances, they can do so using the history checking feature. It allows the user to save every test result and also notifies the user if he/she tries to retake a test, thus saving time.
- <u>Log Out:</u> User can end his/her session to save their secure information and personal details. On future logins the data is saved and the user gets to resume from where he/she has last made progress.

Non-Functional Requirements

Those requirements which are not the functionalities of a system but are the characteristics of a system are called the non-functionalities. Every software system has some non-functionalities. Just fulfilling the requirements of the user is not a good task, keeping the system accurate, easy to maintain, reliable and secure is also a basic part of software engineering. Examination Portal must have the following non-functional requirements so that I could be said as a complete system.

- <u>Performance constraints</u>: This system must be fit according to the performance wise. It should use less memory and will be easily accessible by the user. Memory management should be done wisely so that none of the memory part goes wasted.
- <u>Hardware limitations</u>: It should be designed in such a way that cheap hardware must be installed to access and use it effectively. It should be platform independent. There should be no hardware limitations. In should be designed to work with the low specification hardware so that it could easily work with the high specification hardware.
- <u>Maintainable</u>: Each of the modules should be designed in such a way that a new module can easily be integrated with it.
- <u>Reliable and Testable</u>: This software is reliable and can be tested easily for quality purpose of the software.