ONLINE EXAMINATION SYSTEM

Synopsis

In partial fulfillment of the

Requirements

For the degree of

Bachelor of technology

In

Computer science

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Abstract

As we all know examination is a test not just for the person who is giving the exam but also, for the person who is managing the examination keeping in mind that everything goes well. Online Examination system removes those little possible discrepancies or faults which takes place during offline examinations. A major advantage of such a system is that student does not have to be physically present at the exam Centre, he can give his exam from anywhere using just a desktop, mobile and an Internet connection. Also, in case of offline exams, there is a delay in calculating the results as it has to be done manually in that case but in online examination system there is a possible way to make sure that the results are declared not much after the student had finished it. It also minimizes the error in calculating the results. This is the basic idea for choosing this project.

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Overview:

In the current scenario, where whole world is shifting towards online mode, examinations are something from which people are still not much comfortable in online mode. Taking this in mind, the purpose of this project is to develop a system so that students can feel comfortable in giving online examinations.

Objective:

The main objective of this project is to create a web application through which people can give online examinations. It will be a web application developed using Node.JS platform and other supporting technologies.

Literature Survey:

Online examinations are one of the methods which people are using widely in the current scenario where people have become comfortable with using internet and technology. One of the main reasons for its growing popularity is its speed and accuracy. Many researchers have already researched about online examination system and we are going to develop an online examination system keeping an eye on these researches as a reference and these are as following:

Zhenming et al (2003): They developed an online examination system based on web browser/server framework.

SIETTE Guzman and Cenejo (2005): They developed an online examination system called as SIETTE; (System of intelligent Evaluation using Tests for Tele education).

EMS: Rashad Et. Al. (2010) proposed a web-based online examination system called Exam Management System (EMS). EMS manages the examination and auto-grading for students' exams and supports conducting exams.

Methodology:

- Developing the user interface.
- Creating the database system.
- Adding backend processing to the project.

Technologies to be Used:

- Node Js
- React Js
- Java Script
- HTML
- CSS
- Express Js
- Mongo DB

Hardware Requirements:

The requests of the hardware for the web application are as follows:

- 64 bits laptop or desktop.
- TCP protocol.

Software Requirements:

To access a web portal of this application, its only need a PC/Laptop/Mobile with an integrated and updated web browser.

Desktop browser:

Safari, Chrome, Firefox, Opera, IE9+.

Mobile browsers:

Android, Chrome Mobile, iOS Safari.

On the server side:

A PC/Web Server which meets these specifications:

- Window Operating System

- At least 2 GB RAM and 150 GB Free Space

Future Scope:

We can convert this project to a major one by adding more functionalities to it such as downloading the result or making it compatible to answering subjective questions as well instead to just objective questions.

References:

1. https://www.thesoftwareguy.in/
2. https://www.w3schools.com/

3. https://www.tutorialspoint.com/
4. https://papers.ssrn.com/
5. https://www.researchgate.net/