

Quizzie – The Quiz Management System

REVIEW 1

Internet and Web Programming (CSE3002)

Slot: F1

By

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Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

Project Title:

Quizzie – The Quiz Management System

Problem Statement:

In the post COVID-19 world, where the conventional classroom learning methods are no longer feasible, E-learning or online learning has taken the front seat. This has led to a much needed revolutionization of the education sector with more and more intuitive and interactive applications and products emerging with the aim to not only recreate the classroom experience, but also make it better and take it a step further to make both learning and teaching a seamless process.

The sharp rise of video conferencing and other online meeting and learning applications shows how necessary e-learning tools and applications are, and despite being the need of the hour, they are either not sufficient in number, or lacking in quality. To tackle this very predicament we built **Quizzie**, the all in one industrial level quiz portal which is not only secure, but also easy to use and is made keeping the evaluation needs of the instructor in mind.

Abstract and Overview:

Quizzie is a complete online quiz management platform with a plethora of features for both teachers and students. It boasts of all the functionalities a quiz portal should have like timer, scoring, ranking etc. alongside analysis of results from the students on the teacher's dashboard, summary of tests for the student, lastly, it is also highly secure and integrates Google Oauth for Login and signup using a Google account, for both the teacher and the student.

It provides a smooth and interactive user interface for both the teachers and students to create and attempt different kinds of quizzes seamlessly.

The portal allows the instructor to not only set up different kinds of questions like MCQs, Short Answers, etc. But also incorporates features like automatic correction for multiple choice/ true-false questions. Teachers can also schedule quizzes at a particular time and students can attempt the quizzes that have been scheduled for them. The application UI consists of an instructor, as well as the student dashboard which allows both the teacher and the student to track their previous and upcoming assignments and

scores. All of the information will be securely stored in a database, we have made use of MongoDB as the database for our project.

Some other salient features of our project include –

1. Separate accounts for the organizers and the students through which they can access the respective content and features. The organizers would be able to create, delete and monitor the quiz whilst managing its access. The students would have a user-friendly interface through which they could take these quizzes.
2. Post-test, a detailed statistical analysis with Bar graphs and Pie charts is available to the organizers enabling them to access the overall performance of the students. Filters to be added as well based on students and questions.
3. Various malpractice prevention features like Multi-Tab access prevention are also proposed.
4. Instant quiz creation with link sharing through QR code option would enable the users to create and share quizzes seemingly.

Tech Stack Used (Platform to Implement):

The project is a web application made with the cohesion of numerous web development frameworks and libraries. The tech stack that we plan to use for this project includes –

- HTML5
- CSS3
- JavaScript
- jQuery
- AJAX
- ReactJs
- MongoDB
- Material UI
- Express.js
- NodeJs
- PHP

Module Details:

- **User Registration/Login Module**

Description and Priority

The user registration will allow users to type a user name and password to log in. The admin can create different accounts for users and only the admin will have access to it, it cannot be accessed by other users, which means admin can create different accounts for different users. The users can also use **Google account** to login.

- **Quiz Dashboard Module**

Display the list of all quizzes, upcoming quizzes and the profile

- **Create Quiz Module**

The user can create a quiz if he/she is logged in as an organiser

- **Delete Quiz Module**

Delete a quiz.

- **Edit Quiz Module**

Editing a previously created quiz.

- **Edit Profile Module**

Edit Details of the user's profile

- **Change Password Module**

This provides the user the functionality of changing the password.
This feature is very necessary for security purposes.

- **Attempt Quiz Module**

This module allows users/students to give quiz and attempt the questions

- **Statistics Module**

The organiser can view detailed statistics of the test he has conducted and view charts as well.

- **Private Quiz Module**

The teacher can create a private quiz as well to share with only those he/she wants using a quiz code.

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