**QUIZ WEB APPLICATION**

**TEAM NAME (TEMP): P4A14**

**Guide:**

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**Synopsis of the project:**

The project that our team is currently working on is a website specifically developed for the purpose of quizzes being conducted in the college. Quizzes are an integral part of our engineering syllabus and are essential for us as they help students secure 5-10% (depending on the subject) of his/her total marks in a subject. This in turn also helps in deciding a grade of a student as without those 10% of the total marks the grade of a student in that subject might slip to lower levels.

The way quizzes are conducted in our college currently are mostly handwritten and online quizzes are a rarity. This is the reason why we thought of developing a website specifically for the purpose of conducting all the quizzes online. Any teacher of the college can post the questions belonging to a particular subject and the student can attempt the quiz by logging into the website at the specified time. The database or back-end of our website contains the details of the person who has logged in and also various tables containing questions and answers. The website also allows the student to answer a set of practice questions that are already available in the database, thereby allowing him to learn and do well in the upcoming quizzes. The student can choose the department, year, semester and particular subject whose questions he would like to practice. Teachers are allowed to login as admins and only they are supposed to post the questions, give the four options and also the correct answer so that it can be stored into the database.

The front-end or user-side design of our website includes

* A login page for both admins and students where they can enter login details like id and password to log in to the website. These details are stored to the database when they sign up to our website from the sign-up page after providing necessary details.
* Then we have pages giving details of the website, developers and contact-info.
* Once the person enters the main page, he can choose the department, semester and subject he is looking for. Since we are concentrating on first years now, we have choice between physics cycle and chemistry cycle subjects.
* There is a page where the admin only can post quizzes with questions and answers once they login.
* Another page is provided to a participant where he can answer the quizzes posted by the admin.
* A page for practice questions also exists for each subject where questions are chosen from the database and are listed along with options. Here the student can answer as many questions as he wants to practice and learn.
* A profile page indicating the persons details are also available.

The database that we currently are using for this website contains six tables.

* One table that contains the participant details such as participant\_id, name, usn, email-id etc.
* The quiz table contains the quizzes to be conducted that include the ids of the quiz, name of the quizzes, subject etc.
* Another table just contains the questions belonging to all subjects, their ids (being the primary keys) etc.
* A table just containing answers to the questions present in the question table is linked to the question table by the ‘question\_id’. Multiple answers to a particular question can be chosen from this table which will appear as options but only one is correct which we get to know by the ‘answer\_correct’ attribute.
* Another table is used only to store participant answers to the questions of the given quiz. This helps in checking whether the participant has answered correctly or not.
* And finally, we have an admin table which stores only the details of the teacher who wants to post the questions and store them in the database.

These tables and a basic database description can be obtained by the ER diagram and back-end schema that have been uploaded to the same GitHub link as this word document.

Currently we are working on a website only for all the first-year students of the college belonging either to the physics or chemistry cycles as a basis for the entire college later on.

**Motivation:**

* The first and foremost reason we wanted to do this project was to make the conduction of quizzes more efficient than it currently is. By making the quizzes online we get to have a much more efficient quiz with proper time slots.
* The second reason is to help students practice some questions that may be similar to the questions that appear in the actual quiz. This way the students will have an idea of the questions that could appear and their difficulty levels which helps them to prepare better.
* Since handwritten quizzes use a lot of paper and have to be conducted at least twice in a year for each subject belonging to any department, we wanted to minimize the paper use. Online quizzes are much more eco-friendly.
* Online quizzes also help save time of both teachers and students. Teachers can simply post the questions on the website that are to appear in a quiz which a student can later answer by logging into the same website from labs or outside the college. This way teachers wouldn’t have to take printouts of the questions and then conduct it in the class. Also grading time is also reduced as the website itself checks if the student has answered the question correctly or not. The teacher wouldn’t have to correct the paper of every student.
* Last but not the least we wanted to provide a portal where all the quizzes can be conducted for the college. The quizzes can be conducted by a teacher for students belonging to any semester or department of the college and can be used by any person irrespective of the department.

**Software/Languages used:**

* HTML
* CSS
* JavaScript
* Xampp
* MySQL
* PHP