**PROJECT PROPOSAL**

**PROJECT OVERVIEW**

**PROJECT NAME:** AIQuizGen

**PROJECT DURATION:** Oct to February

**PROJECT TEAM:** Eman Afzal & Muqadas Ghazal

**BACKGROUND:**

Educational software apps provides “remote learning platform”.The integrated learning system offers complete knowledge with end to end learning solutions.Educational apps caters to varied age groups including kids,adults,teenagers,professionals etc These types of apps provides desired knowledge for skill making and providing new knowledge from time to time .

**PROJECT DESCRIPTION/INTRODUCTION:**

AIQuizGen is a cutting-edge, user-friendly application designed to revolutionize the process of quiz creation and participation through the power of artificial intelligence (AI). Quiz taking app(QTA) allows for both ;”QUIZ MAKING” and “QUIZ TAKING” for teacher and student as user.Our primary goal is to provide a platform that enhances learning, streamlines assessments, and improves knowledge retention. This innovative app is specifically tailored for students to give quizzes, as well as for teachers to expedite the quiz generation process with minimal effort. AIQuizGen not only saves valuable time for educators but also automates the grading process, making it incredibly efficient to evaluate student performance in just a matter of minutes.

**PROBELUM STATEMENT:**

In conventional educational settings, there is a earth of apps that support teachers in their instructional roles. Educators frequently encounter difficulties when it comes to crafting quizzes in word processors, followed by the cumbersome process of printing them out. This traditional method not only consumes a significant amount of time but also necessitates the physical distribution and collection of paper-based quizzes. Additionally, the availability of online web applications with user-friendly interfaces for this purpose is quite limited. As a result, educators often grapple with the challenges of content creation, quiz management, and grading.

**OBJECTIVES:**

1. Create an intuitive quiz-taking application enriched with a comprehensive feature set.
2. Provide teachers with advanced customization capabilities to tailor quizzes to their specific needs.
3. Simplify and streamline the process for teachers to administer quizzes to students through an online platform, reducing time constraints.
4. Ensure the application's accessibility and responsiveness across various web platforms.

**PRELIM INARY REQUIREMENTS:**

1. System must register teachers and students
2. System must manage teachers and user profiles
3. System must enable teachers to generate quiz by single command using AI
4. System must enable teachers to save quiz or regenerate it.
5. System must provide customization options to teachers for quiz creation like if teacher wants to make true/false questions or MCQS
6. System must enable students to join quiz by quiz name.
7. System must allow students to submit answers after filling
8. System must score student’s quiz after quiz is submitted
9. System must show quiz marks on teacher’s profile and student’s profile.

**CURRENT SITUATION AND OPPORTUNITY STATEMENT:**

The current learning and assessment landscape faces several challenges, including:

* Limited access to AI-generated quizzes.
* Manual and time-intensive quiz creation processes.
* Subjective grading and feedback.
* Lack of standardized and diverse quiz content

**OPTIONS AND RECOMMENDATIONS:**

To address the identified problems and leverage the opportunity, we propose the development of the AIQuizGen application. Key features include AI-enhanced quiz generation, automated evaluation, and a user-friendly interface for both educators and learners.

* **TECHNOLOGIES TO BE USED:**
* ReactJS
* Express.js
* TypeORM
* MySql
* OPEN AI API

| **Criteria** | **Your E-Learning Quiz App** | **Competitor A** | **Competitor B** | **Competitor C** |
| --- | --- | --- | --- | --- |
| Registration of Teachers and Students | ✔️ | ✔️ | ✔️ | ✔️ |
| Teacher and User Profile Management | ✔️ | ✔️ | ✔️ | ✔️ |
| AI-Powered Quiz Generation | ✔️ | ❌ | ✔️ | ✔️ |
| Save and Regenerate Quizzes | ✔️ | ✔️ | ✔️ | ✔️ |
| Customization for Question Types (TF, MCQs) | ✔️ | ✔️ | ✔️ | ✔️ |
| Student Joining by Quiz Name | ✔️ | ✔️ | ✔️ | ✔️ |
| Submitting Answers | ✔️ | ✔️ | ✔️ | ✔️ |
| Automated Quiz Scoring | ✔️ | ✔️ | ✔️ | ✔️ |
| Displaying Quiz Marks | ✔️ | ✔️ | ✔️ | ✔️ |