Project Report  
  
  
  
  
  
CSE 299  
Junior Design Course  
Spring – 2019

Section : 2

Group : 4

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Submitted To:  
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**Project Name:**

Online Quiz Web App

**Project Type:**

Website Application

Introduction:  
  
Online quiz web app will be a website application platform where the teachers around the world can take quizzes of their students virtually via the internet. The teachers will be able to create a classroom in which they can invite students to join and after that the teachers will be able to create a quiz session through the web app allowing him to use the basic quiz templates of the web app or create a custom quiz template of his own. The teacher will also be able to set a timeline for a specific quiz session and all the students can then access the quiz session within that specific timeline and attend the quiz.

Objectives & Functions:

* Different profile types for student and teacher
* Creation of classroom by teacher and inviting students in it
* Creation of quiz sessions with specific timeline
* In app quiz answers checking
* Publishing results to each student’s account
* Archiving attended quiz questions and answers
* Real time multiple user access and authentication

Technology Use:

The web app initially will be built using html, css, javascript for the frontend part and for the server side part php will be used along with firebase features.

Monetization Strategy:

Initially the web app will be free to use for a single teacher account and the teacher will be able to take upto 2 quizzes free of charge. After the limit is reached teacher will be able to choose from two of our paid plans.

* **Basic Plan:** Tk. 85 per quiz to be taken.
* **Saver Plan:** Tk. 110 per month for unlimited amount of quizzes each month.

Features List:

**- Teacher Panel:**

* Create classes
* Create quizzes
* See each student progress using charts
* Auto-grading of quizzes
* Generate unique ID for each class
* Approve students for a class

**- Student Panel:**

* Join classes
* Attend quiz
* View grade history

Technology implementations:

* Front End – HTML, Javascript, PHP
* Back End – PHP
* Library – Bulma.css, Bootstrap, CanvasJS

User guidelines:

* **Teacher’s Approach:**
* Create a teacher account
* Create a class for a section
* Approve students who requested to join the class
* Create a quiz
* The system automatically grades the quizzes
* View graphs of students’ class performance
* **Student’s Approach:**
* Create a student account
* Join a class with unique class id
* Give quiz created by the teacher in a classroom
* Check for quiz marks in the results section

Issues faced:

Due to lack of time, certain corners had to be cut. For example, instead of the quiz system letting teachers mix different question types, they are now limited to using multiple choice questions only. While trying to implement this feature, the database got very complex and unwieldy.

References:

* All the graphic images are taken from [www.freepik.com](http://www.freepik.com)
* The charts have been generated using CanvasJS - <https://canvasjs.com/>
* Bulma framework has been used to design most of the frontend - <https://bulma.io/>