Quiz Master V1 - MAD I

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STUDENT DETAILS

I am Adhyan Mishra, currently enrolled in the diploma level, just an enthusiast presenting his very first web development project.

PROJECT DETAILS

Quiz Master is a multi-user web application designed as an exam preparation platform for various courses, requiring both an administrator and regular users.

As a beginner in web application development, working on this project was quite a challenge. However, completing the App Dev-1 theory as a prerequisite provided me with valuable insights on how to approach the task effectively.

I began by setting up the database, which serves as the backbone of the project. Then, I implemented CRUD operations, created the necessary HTML pages, and linked them to the respective routes for seamless functionality. To enhance the user interface, I incorporated Bootstrap for styling and used Chart.js and only a little bit of javascript for visualizing data through charts. After overcoming several hurdles, I successfully completed the project.

Of course, I didn't accomplish everything alone. The guidance from YouTube tutorials and the IITM bootcamp was incredibly helpful, and I'm truly grateful for the learning experience this project provided.

FRAMEWORKS

Frameworks include:
- ❖ Flask for application back-end
- ❖ Jinja2 templating
- ❖ HTML and Bootstraps for application front-end
- ❖ SQLite for database

Some of the key controllers I used include:

1. @app.route('/')
2. @app.route('/login', methods = ['GET', 'POST'])
3. @app.route('/register', methods = ['GET', 'POST'])
4. @app.route('/admindashboard')

DRIVE LINK FOR PRESENTATION VIDEO:

🎬 Untitled video - Made with Clipchamp.mp4

ER DIAGRAM

subject

id	INTEGER	PK
name	VARCHAR	
description	VARCHAR	

chapter

id	INTEGER	PK
name	VARCHAR	
description	VARCHAR	
subject_id	INTEGER	

quiz

id	INTEGER	PK
chapter_id	INTEGER	
name	VARCHAR	
date_of_quiz	DATE	
time_duration	TIME	
remarks	VARCHAR	

user

id	INTEGER	PK
username	VARCHAR	
password	VARCHAR	
fullname	VARCHAR	
qualification	VARCHAR	
dob	VARCHAR	
is_admin	BOOLEAN	

question

id	INTEGER	PK
quiz_id	INTEGER	
title	VARCHAR	
question_statement	VARCHAR	
option1	VARCHAR	
option2	VARCHAR	
option3	VARCHAR	
option4	VARCHAR	
correct_option	VARCHAR	

score

id	INTEGER	PK
quiz_id	INTEGER	
user_id	INTEGER	
time_stamp_of_attempt	DATETIME	
total_score	INTEGER	