

# **Modern Application Development 1**

## **Author Details**

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**Institution:** Indian Institute of Technology, Madras

**Project Name:** Quiz App

**Subject:** Modern Application Development 1

## **Introduction**

I am Sweta Priya, a passionate student with a strong interest in web Development and modern app technologies. This project has been an exciting Learning experience that helped me enhance my technical expertise and Problem-solving skills.

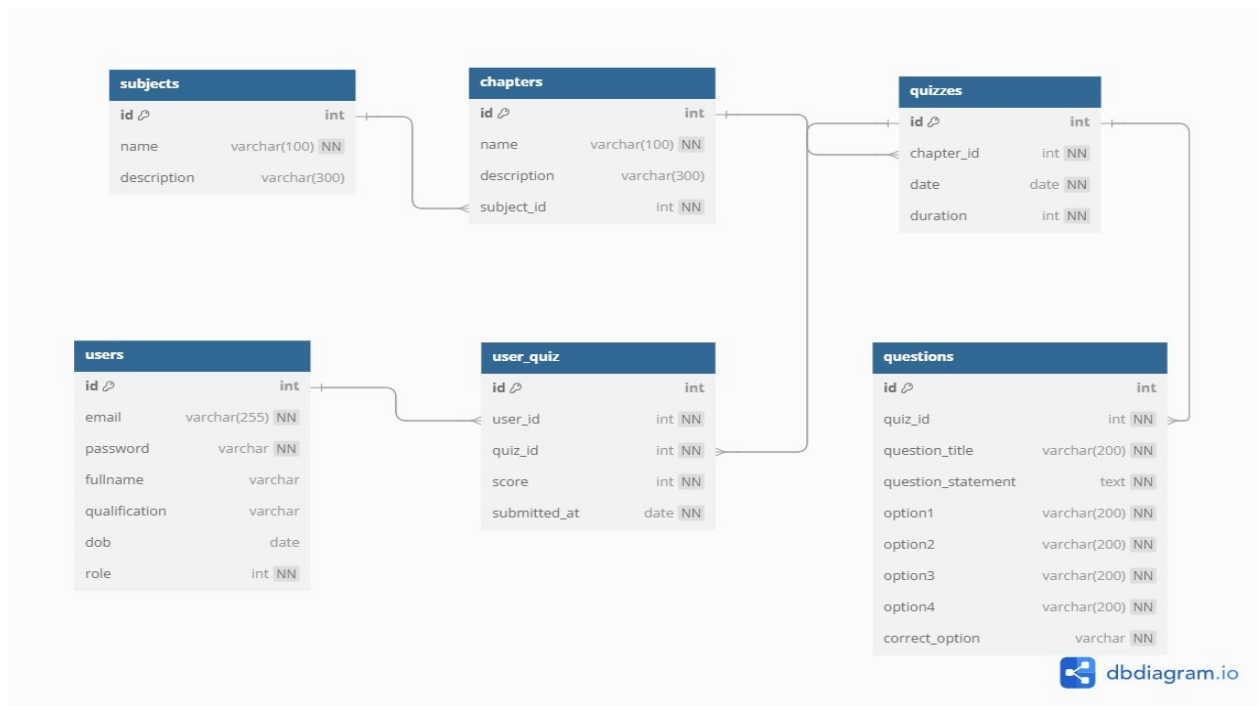
## **Project Overview**

The project **Quiz App**, designed to provide an interaction platform for Users to test their knowledge across multiple topics. The application offers an engaging experience with various quiz categories, scoring mechanisms, and user progress tracking.

## Key Features

- **User Authentication:** Secure login and registration system.
- **Quiz Categories:** Users can choose from multiple topics.
- **Timer Functionality:** Countdown timer for each question.
- **Score Calculation:** Real-time scoring based on answers.
- **Admin Panel:** Allows quiz management, subjects, chapter, quizzes, questions.

## Database Schema



## Routes

- /register
- /login
- /logout
- /admin\_dashboard
- /user\_dashboard
- /subject\_form

- /subject\_form/<int:subject\_id>
- /delete\_subject/<int:subject\_id>
- /chapter\_form/<int:subject\_id>
- /chapter\_form/<int:subject\_id>/<int:chapter\_id>
- /delete\_chapter/<int:chapter\_id>
- /subject/<int:subject\_id>/chapter/<int:chapter\_id>
- /quiz\_form/<int:chapter\_id>
- /quiz\_form/<int:chapter\_id>/<int:quiz\_id>
- /delete\_quiz/<int:quiz\_id>
- /new\_question/<int:quiz\_id>
- /new\_question/<int:quiz\_id>/<int:question\_id>
- /delete\_question/<int:quiz\_id>/<int:question\_id>
- /quizzes
- /quiz/<int:quiz\_id>
- /submit\_quiz
- /scores
- /summary

## **Technologies Used**

### a) **Frontend**

- HTML, CSS, Bootstrap for responsive UI
- Jinja2 for dynamic templating
- JavaScript for interactive elements.

### b) **Backend**

- Flask for backend development

### c) **Database**

- SQLite

### d) **Additional Libraries**

- Chart.js for analytics and performance graphs.

## **Video Link**

**Video**