Online Quiz Platform

Welcome to the Online Quiz Platform project! This platform allows users to create, manage, and take quizzes online. It provides features for user authentication, quiz creation, quiz taking, and result viewing.

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Features

- **User Authentication:**
    - Sign up, login, and logout functionalities.
    - Session-based authentication.
- **Quiz Management:**
    - Create new quizzes with titles and passwords.
    - Store quiz data securely in a MongoDB database.
- **Quiz Taking:**
    - Enter quiz title and password to view and take quizzes.
    - Display quiz questions with multiple-choice options.
- **Results Viewing:**
    - View saved quizzes and their respective results.
- **Responsive Design:**
    - Bootstrap framework for responsive and mobile-friendly UI.

Project Structure

The project directory structure is organized as follows:

- `public/` : Contains frontend assets such as CSS, images, and client-side JavaScript files.
- `src/` : Includes server-side configuration files and models.

- `routes/` : Backend routes for handling quiz management and user authentication endpoints.
- `views/` : EJS (Embedded JavaScript) templates for rendering HTML pages.
- `package.json` , `package-lock.json` : Node.js package configuration files.
- `README.md` : This documentation file.

Getting Started

Follow these steps to set up and run the Online Quiz Platform locally on your machine.

Prerequisites

Make sure you have the following installed:

- Node.js (v14 or higher)
- npm (Node Package Manager)
- MongoDB (Community Edition)

Installation

1. **Install dependencies:**

```
npm install
```

Setting up Environment Variables

Create a `.env` file in the root directory and add the following environment variables:

```
PORT=3000
DB_URI=mongodb://localhost:27017/online-quiz-platform
```

Running the Application

1. **Start the MongoDB server:**
   Ensure MongoDB is running on your local machine.
2. **Run the application:**

```
nodemon .\src\index.js
```

3. **Access the application:**
   Open your web browser and navigate to `http://localhost:3000` .

Technologies Used

- **Frontend:** HTML, CSS, JavaScript, Bootstrap
- **Backend:** Express.js
- **Database:** MongoDB
- **Other Dependencies:** bcrypt, connect-mongo, cors, dotenv, ejs, express-session, mongoose, nodemon

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Project Resources and References

Documentation and Tutorials

- **Bootstrap**: Official documentation for Bootstrap.
  - Bootstrap Documentation
- **Express.js**: Official documentation for Express.js.
  - Express.js Documentation
- **MongoDB**: Official documentation for MongoDB.
  - MongoDB Documentation

Libraries and Packages

- **bcrypt**: Secure password hashing.
  - bcrypt npm
- **connect-mongo**: MongoDB session store for Express.js.
  - connect-mongo npm
- **dotenv**: Loading environment variables.
  - dotenv npm
- **express-session**: Session middleware for Express.js.
  - express-session npm
- **mongoose**: MongoDB object modeling for Node.js.
  - mongoose npm
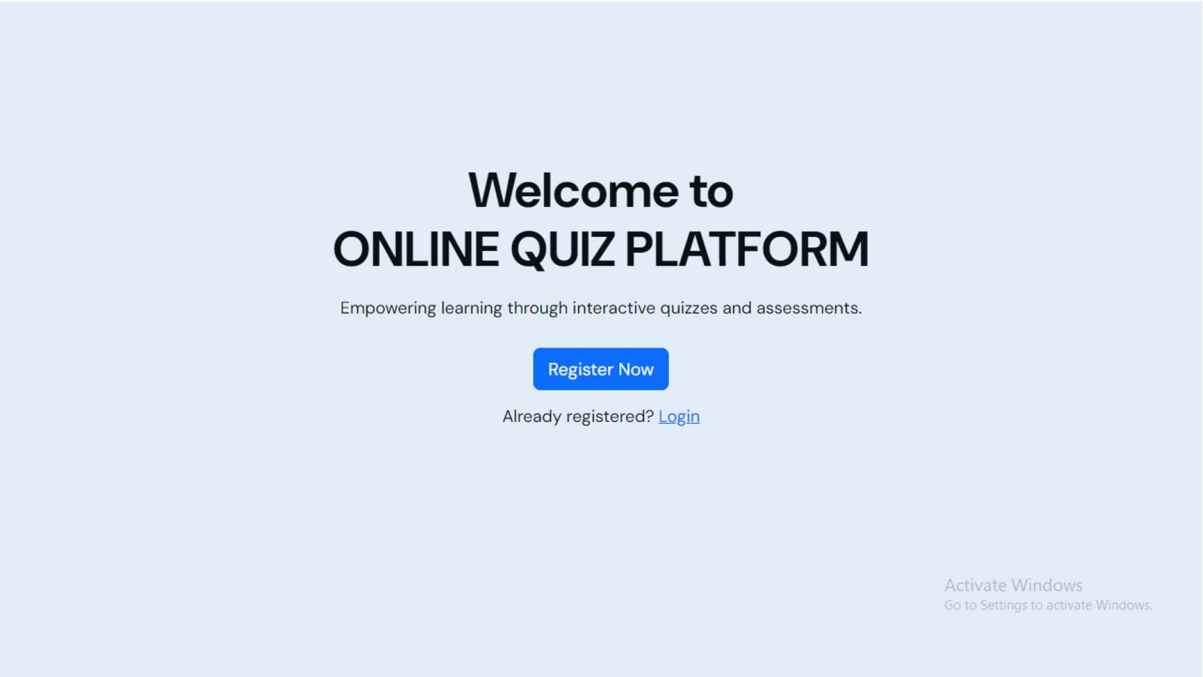- **nodemon**: Utility for auto-restarting Node.js apps.
  - nodemon npm

Online Resources

- **MDN Web Docs**: Comprehensive web development documentation.
  - MDN Web Docs
- **Stack Overflow**: Community-driven Q&A for programming.
  - Stack Overflow

Inspirational Projects

- **Traversy Media**: Building a quiz app with Node.js and MongoDB.
  - [YouTube Tutorial](#)
- **freeCodeCamp**: Creating a quiz app with HTML, CSS, and JavaScript.
  - [Tutorial](#)

Project Screenshots

Welcome to
ONLINE QUIZ PLATFORM

Empowering learning through interactive quizzes and assessments.

Register Now

Already registered? Login

Online Quiz Platform

Register

Full Name:

Enter your full name

Email address:

Enter your email

Password:

Enter your password

Must be 8-20 characters long.

Confirm Password:

Confirm your password

Register

Already registered? Login

Online Quiz Platform

Login

Email address:

Enter your username or email

Password:

Enter your password

Login   Forgot Password?

Not registered yet? Create an account

Online Quiz Platform   Home   Create Quiz   Take Quiz   Profile ▾

Welcome to
ONLINE QUIZ PLATFORM

Empowering learning through interactive quizzes and assessments.

Create, take, and manage quizzes effortlessly.

Create a Quiz

Quiz Title:

Enter Quiz Title

Description:

Enter Quiz Description

Time Limit (minutes):

Enter Time Limit

Difficulty Level:

Easy

Scoring Criteria:

e.g., 1 point per correct answer

Access Control:

Private

Select "Private" to restrict access to specific users or groups.

Set a password to restrict access to the quiz.

Questions

Question 1

Question Text:

Enter Question Text

Question Type:

Multiple Choice

Correct Answer:

Enter Correct Answer

Options:

Option 1

Option 2

Add Option

Remove Question

Add Question   Save Quiz

Take a Quiz

Quiz Title:

Enter Quiz Title

Quiz Password:

Enter Quiz Password

Start Quiz

Take a Quiz

Quiz Title:

Maths quiz

UserId:

Enter your userId

Question 1:2*4+8
- 🔘 16
- ⚪ 12

Question 2:is 2 prime?
- 🔘 yes
- ⚪ No

Next

Submit Quiz

Your Quiz responsees are saved Successfully!

You can submit this form only once!

Contact admin for any issues

View Your Answers   View results

Quiz Results

Quiz Title:

Enter Quiz Title

Quiz Password:

Enter Quiz Password

UserId

Enter UserId

Result

Quiz Results

Your result

SCORE:
100

Correct Answers:
2

Total Questions:
2

Quiz Title:

Maths quiz

Quiz Password:

•••••

View Quizs

Quiz Title

Maths quiz

Question 1

Question Text:
2*4+8

Question Type:
Multiple Choice

Options:
Option 1: 16

Option 2: 12

Question 2