



Online Quizzer

PHP WEB DEVELOPMENT TRACK

STUDENTS

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Project Description:

We developed an interactive online quiz platform designed to engage users by offering quizzes on various topics. The platform allows users to take quizzes, track their scores, and view detailed performance history over time. Admins have the ability to create and manage quizzes, set specific time limits, and access participant results for effective analysis. The platform is built with a robust backend using MySQL to store quiz data, user profiles, and scores. PHP and Laravel are utilized for managing quiz logic and user handling, while the frontend leverages HTML, CSS, and JavaScript to ensure smooth interactivity.

Project Goals:

- To provide a user-friendly platform for quiz-takers to assess their knowledge across diverse subjects.
- To offer a streamlined admin interface where quizzes can be created, edited, and managed efficiently.
- To ensure data integrity, with comprehensive tracking of user performance and results.
- To foster an engaging and educational experience through real-time feedback and performance monitoring.

Users:

- **General Users:** Individuals interested in taking quizzes, tracking their scores, and viewing their performance history over time.
- **Admins:** Users responsible for managing the platform by creating quizzes, setting time limits, and monitoring quiz results.

Stakeholders:

- **Admin Stakeholders:** Educators, trainers, or content creators who need a system to develop and manage quizzes for participants.
- **Participants/Users:** Learners or quiz enthusiasts who benefit from taking quizzes and tracking their results for self-assessment.
- **Platform Developers:** The development team responsible for maintaining and upgrading the platform for optimal user experience.

Week 1: Project Setup and Core Functionality

- **Set up the development environment:** Install Laravel, configure database, and create necessary directories.
- **Design the database structure:** Create tables for users, quizzes, questions, answers, and user scores.
- **Implement user registration and authentication:** Use Laravel's built-in authentication system.
- **Create basic quiz structure:** Develop models and controllers for quizzes, questions, and answers.
- **Build the quiz-taking interface:** Design a simple interface for users to take quizzes.

Week 2: Quiz Creation and Management

- **Implement admin functionality:** Create a dashboard for admins to create quizzes, add questions, and set time limits.
- **Develop quiz logic:** Handle quiz submission, scoring, and result storage.
- **Implement user score tracking:** Store user scores and performance history.

Week 3: User Interface Enhancements and Performance Optimization

- **Enhance the user interface:** Improve the design and layout for better user experience.
- **Add features like progress bars and timers:** Provide visual feedback to users during quizzes.
- **Optimize performance:** Implement caching and database optimizations to improve load times.

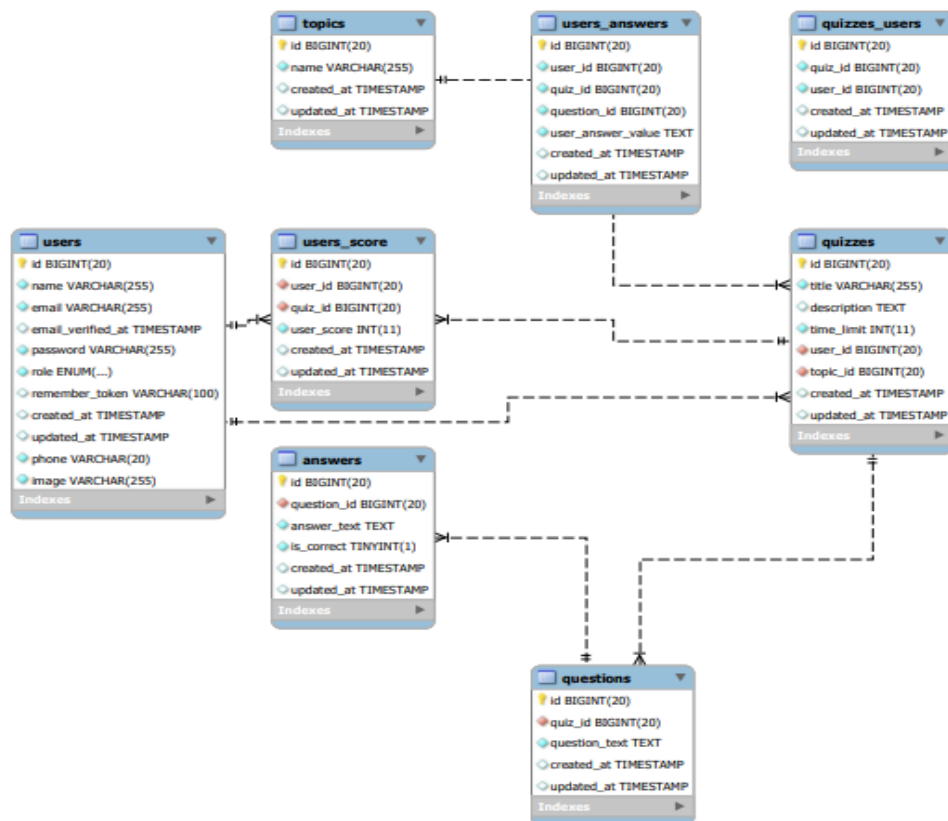
Week 4: Testing, Deployment, and Additional Features

- **Thoroughly test the platform:** Conduct unit, integration, and user acceptance testing.
- **Deploy the platform:** Choose a hosting provider and deploy the application.
- **Consider adding additional features:** Implement features like leaderboards, feedback mechanisms, or social sharing.

Functionality Needed

- **User management:** Registration, login, profile management
- **Quiz creation:** Admins should be able to create quizzes with questions and answers.
- **Quiz taking:** Users should be able to take quizzes, view their scores, and can retake the quiz if his score is bad
- **Score tracking:** The platform should store user scores and performance history.
- **Admin dashboard:** Admins should have a dashboard to manage quizzes, view user results, and analyze statistics.
- **Time limits:** Quizzes can have time limits.
- **Feedback:** Users can send feedback on quizzes

Database design



User view

Landing page

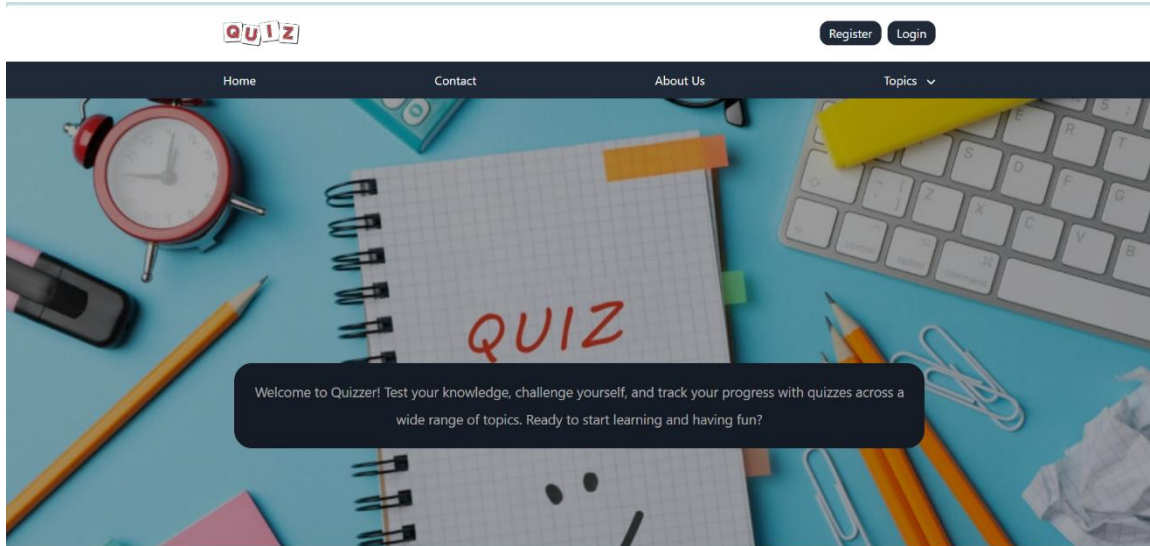


Figure 1: Landing page

In Figure 1: Landing page, user has options:

- Register for a new user
- Login for registered user

Also, not registered user can view topics or search for topics in the website from the dropdown menu or down in the landing page user can view the following Figure 2: Quizzes in topics:

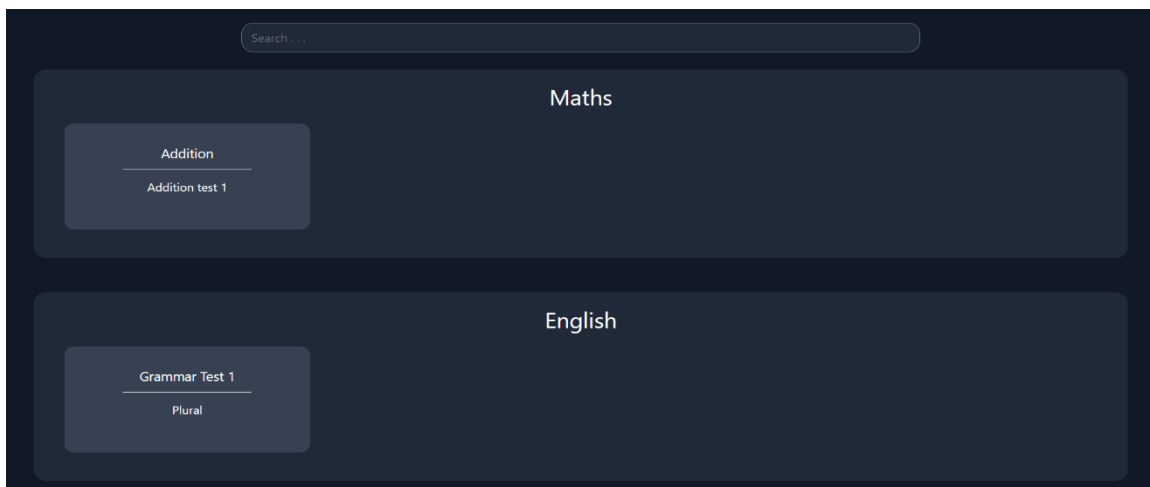


Figure 2: Quizzes in topics

Register page

(Online Quiz)
Registration

Name

Email

Phone

Password

Confirm_password

Register

[Already registered?](#) [Contact with Admin?](#)

Figure 3: Register new user

User can register as a new user, and fill these inputs, to be registered. Or if he already has an account, he can go to it.

Inputs have required validation, each input has its own validation in order to make user has a secured experience in the website.

Landing page – Registered user

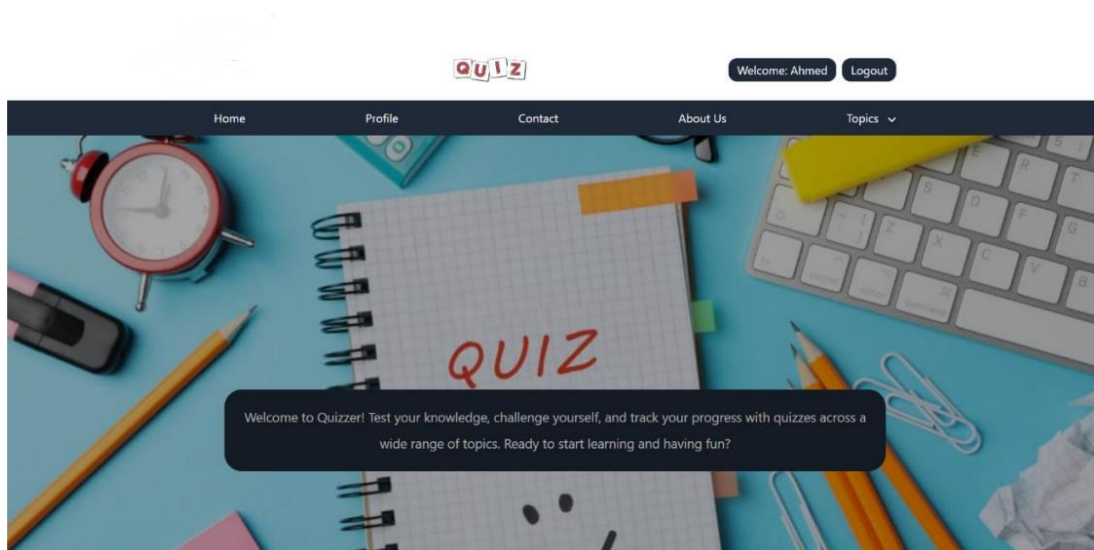


Figure 4: Landing page - Registered use

Profile page

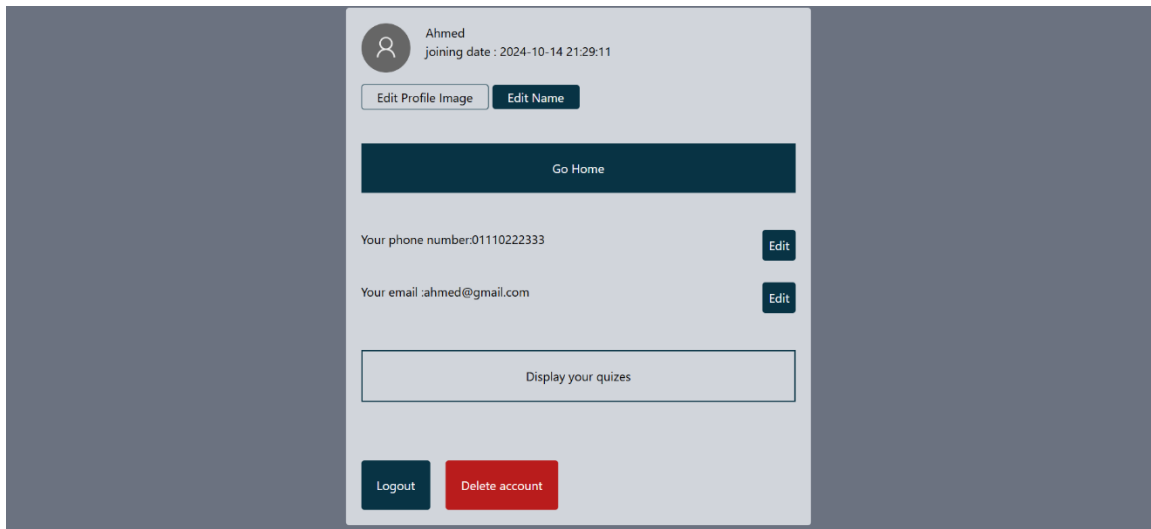


Figure 5: User profile

User can edit, delete, logout and display his own quizzes from this page.

Quiz – user

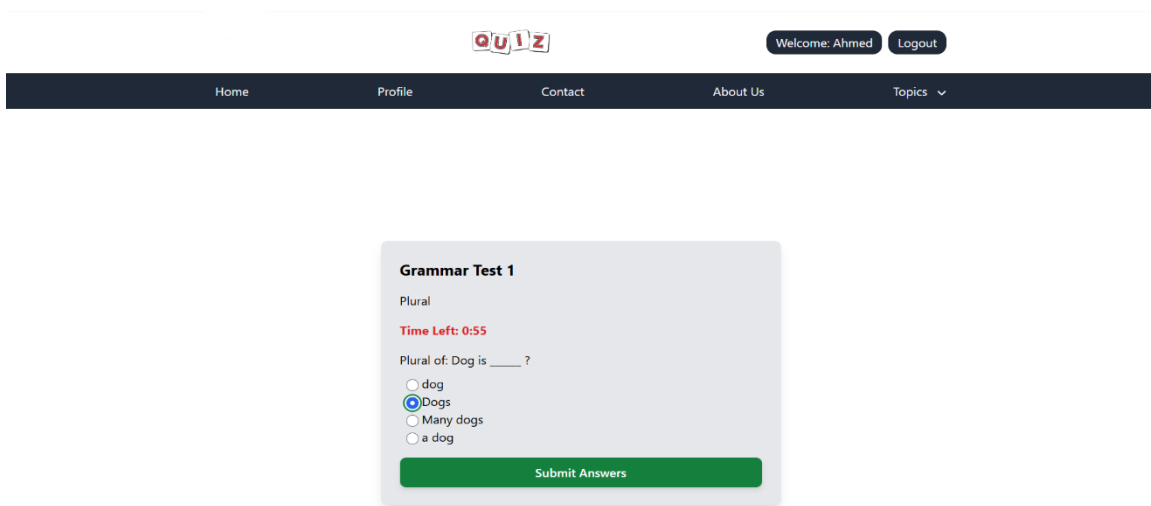


Figure 6: Quiz – User

This page shows a quiz that the user chose to examine. It includes the timer, quiz title, quiz description and submit button.

If the timer is up and the user does not submit any answer, the quiz will be submitted with no answers.

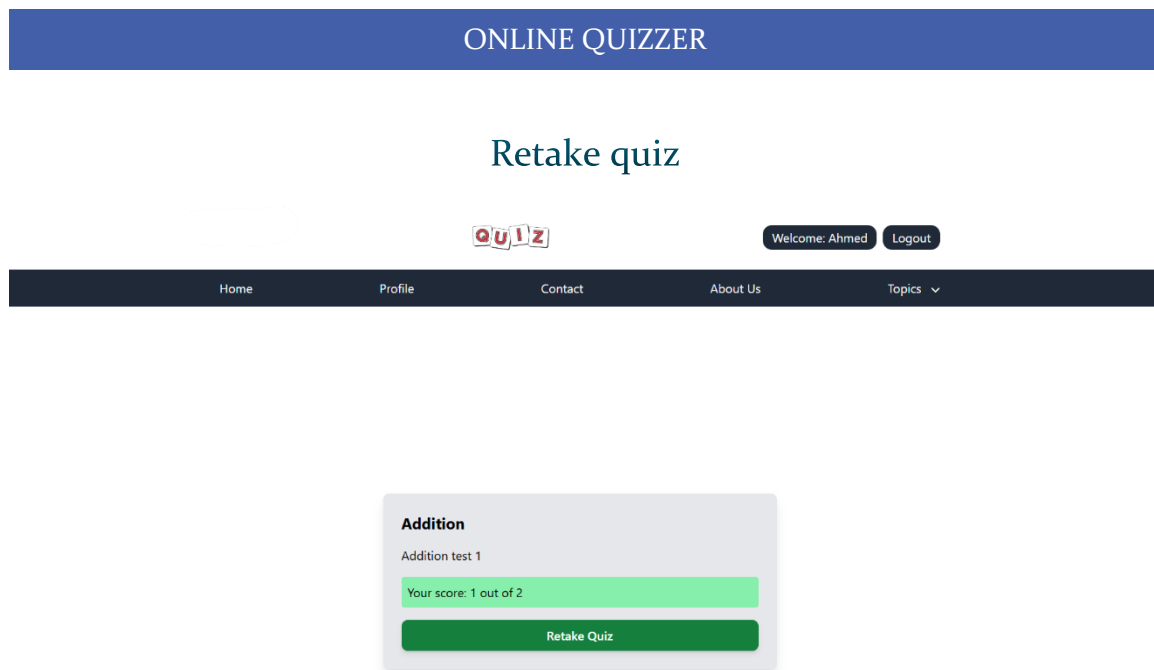


Figure 7: Retake quiz

When user score is below the full mark, user can retake quiz to improve his score.

User feedback

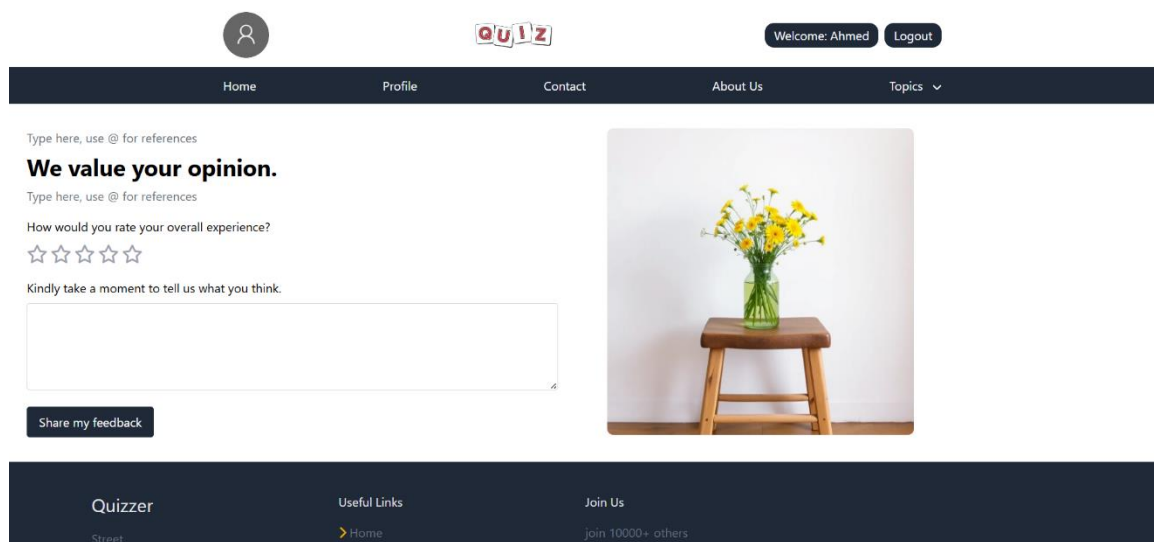


Figure 8: Feedback

In this page user can add and send feedback to the admins, concerning the quizzes the have taken or any messages they need to send.

Admin view

Admin's landing page

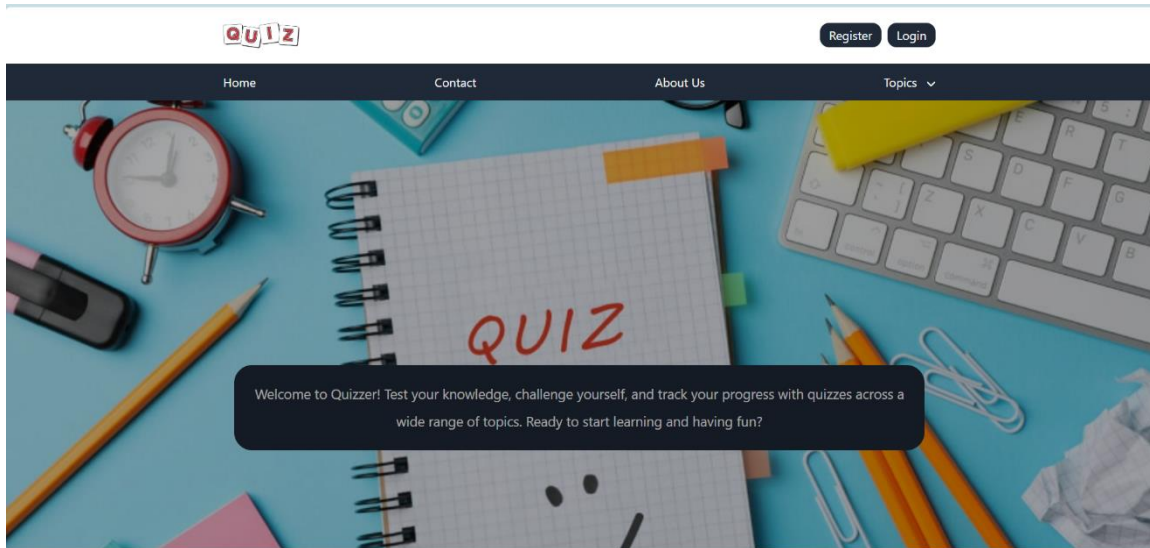


Figure 9: Admin's landing page

Admin has same landing page as students.

Admin should log in with his email and password.

Once logged in as an admin. This page is displayed where admin can go to:

- his dashboard to track students progress and quizzes in the library
- navigate the different topics and the quizzes of these topics

Admin's dashboard

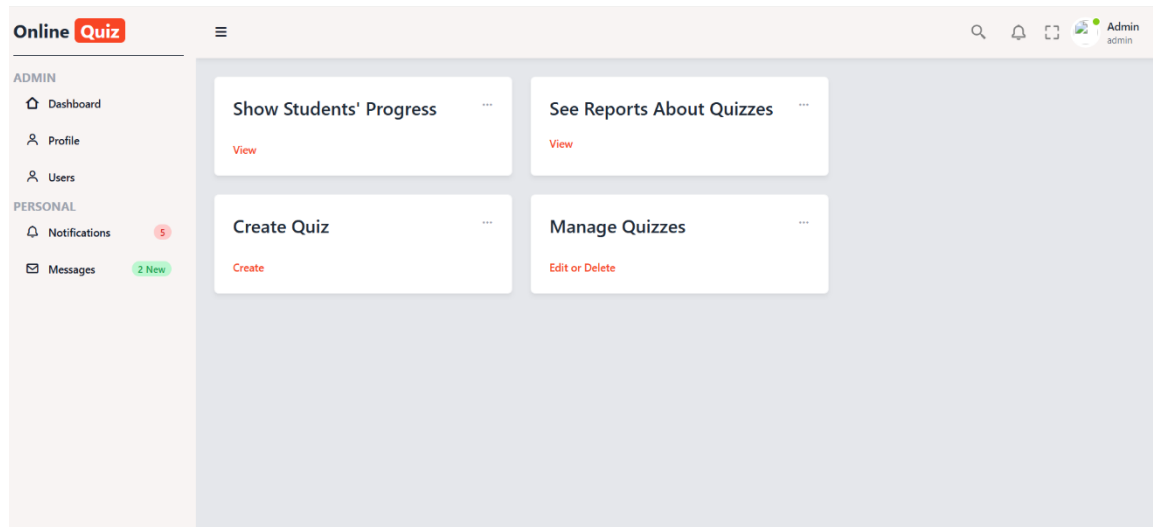


Figure 10: Admin's dashboard

In this page admin has many options, every card has its own use:

- Card 1: Admin can view all users
- Card 2: See reports about quizzes
- Card 3: Create new quiz
- Card 4: View stored quizzes, edit quiz or delete quiz

Create quiz card

Home Dashboard Contact About Us Topics ▾

Select Quiz Settings

* Time Limit (in minutes):

* Number of Questions:

Topic:

Maths

Add Topic:
If you don't find your desired topic, you can add topic here!

Next

Figure 11: Create quiz

In this form admin can create quiz.

- Admin should first set up quiz settings:
- Insert time limit of this quiz
- Insert number of questions
- Choose topic of the quiz
- Or if topic does not exist, create it
- Then, press next to insert questions

Quiz creation

Create a New Quiz

Quiz Title:

Description:

Questions

Question 1:

Option A: ☐

Option B: ☒

Option C: ☐

Option D: ☐

Create Quiz

Figure 12: Quiz creation

Admin creates the quiz with the previous set up. He fills the title of the quiz, description and chooses the question type: True/False or Multiple Choices.

Admin must choose a correct answer to be used at scoring the user's answers.

All users card

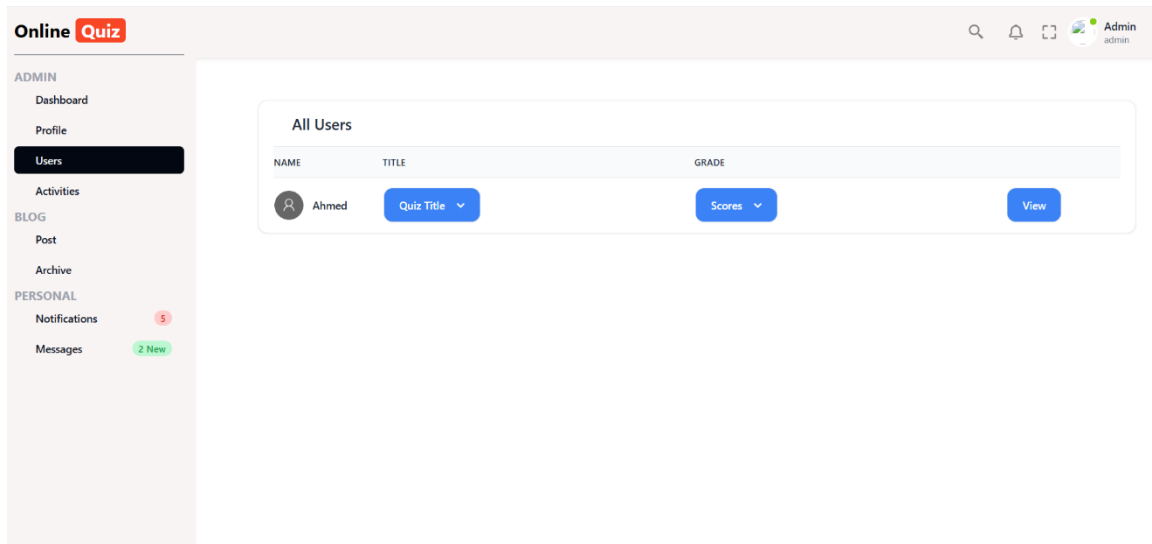


Figure 13: Users

In this page admin can track students and their scores with the quizzes they have taken.

Manage quizzes card

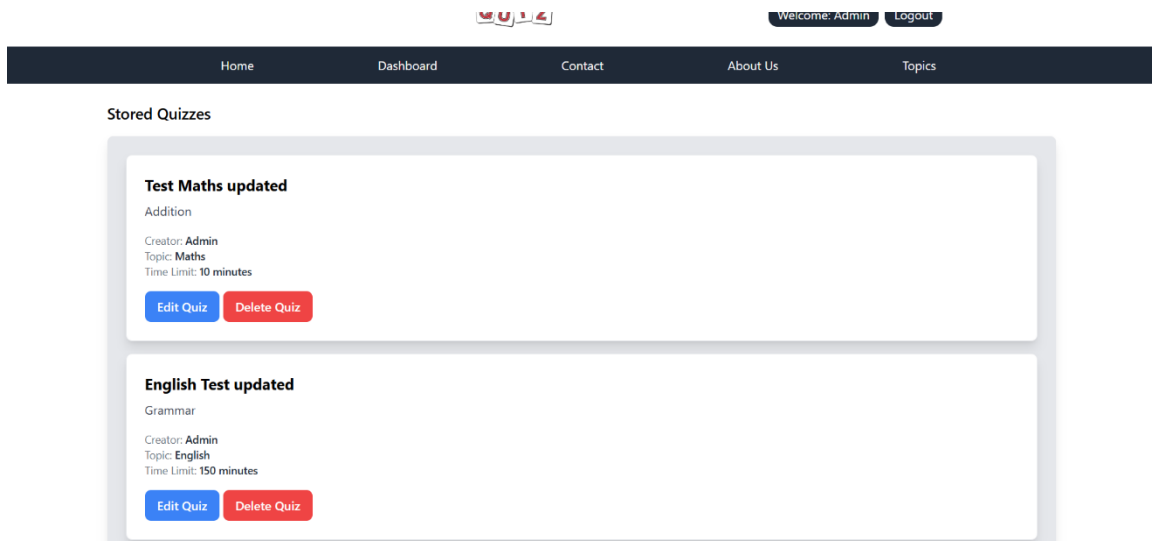
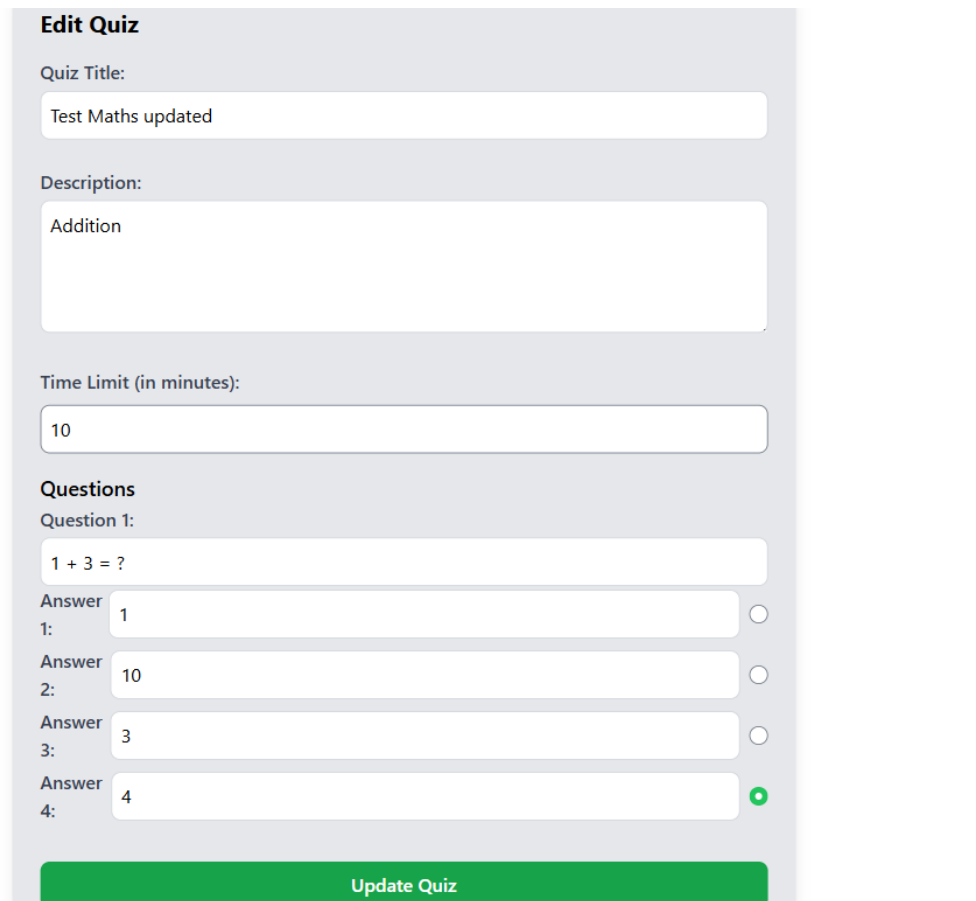


Figure 14: Show quizzes

In this card admin can view all stored quizzes, edit desired quiz or delete quiz.

Update quiz



The screenshot shows a web form titled "Edit Quiz" with a light gray background. It contains several input fields and a list of questions. At the bottom is a green button labeled "Update Quiz".

Edit Quiz

Quiz Title:
Test Maths updated

Description:
Addition

Time Limit (in minutes):
10

Questions

Question 1:
1 + 3 = ?

Answer 1: 1 ☐

Answer 2: 10 ☐

Answer 3: 3 ☐

Answer 4: 4 ☒

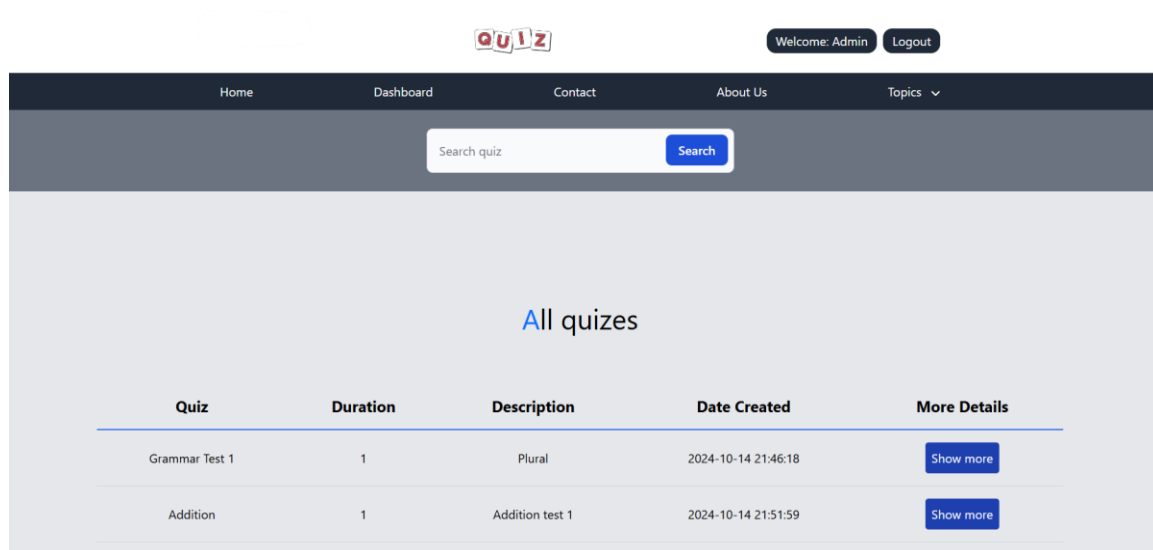
Update Quiz

Figure 15: Update quiz

The admin can update:

- Title of quiz
- Description of quiz
- Quiz time limit
- Questions
- Answers

See reports card

*Figure 16: All quizzes*

In this page admin can see details abouts quizzes.

Once he presses **Show more** button:

He will be redirected to a page containing details and info about this quiz and students who have taken this quiz.

Show more button

| Student Name | Student Phone | Student Email | Student Score |
|--------------|---------------|-----------------|---------------|
| Ahmed | 01110222333 | ahmed@gmail.com | 1 |

Figure 17: Reports

This page shows the admin:

- the activity done on this quiz
- who are the students who have taken this quiz
- what are their scores.

[Project link on GitHub](#)