

Workshop: End To End – Quiz System Fever

Workshop problem for the ["JavaScript Applications" course @ SoftUni](#).

GitHub Resources: <https://github.com/quiz-fever/quiz-fever.github.io>.

1. Overview

Implement an application to see and manage the **system for creating, managing, and completing free access tests**.

The app allows visitors to **browse** different types of quizzes. Users can **register** with an **email**, a **username**, and a **password**, which allows them to create their own quizzes. Authors can also **edit** or **delete** their quizzes at any time.

2. Functionality

The app **should** have:

- **Login** and **Register**
- Ability to **view** and solve **quizzes** by other users
- Various **topics** related
- Ability to **filter** by topic and **search** by title
- **Statistics** for each user and each quiz
- Interactive quiz editor
- Interactive UX

You **should** use:

- HTML, CSS, JavaScript
- lit-html, page.js
- GitHub Pages, Back4app

3. Implementation

Create Back4app app. You can see the documentation on Users here:

<https://www.back4app.com/docs/get-started/read-and-write-data>

Use Back4app for your collection:

- Sessions
- Users

```
{
  email: String,
  username: String,
  password: String
}
```

- Quizzes

```
{
  title: String,
  topic: String,
```

```
questionCount: Number
}
```

- Questions

```
{
  text: String,
  answers: Array<String>,
  correctIndex: Number,
  quiz: Pointer<Quiz>
}
```

- Solutions

```
{
  quiz: Pointer<Quiz>,
  correct: Number
}
```

4. Application Requirements

Navigation Bar

Navigation links should correctly change the current page (view). The **Quiz Fever** link should redirect to the Welcome Screen.

A **Guest** (un-authenticated visitors) can see the links to the **Browse** page, as well as the link to the **Sign-in** page.

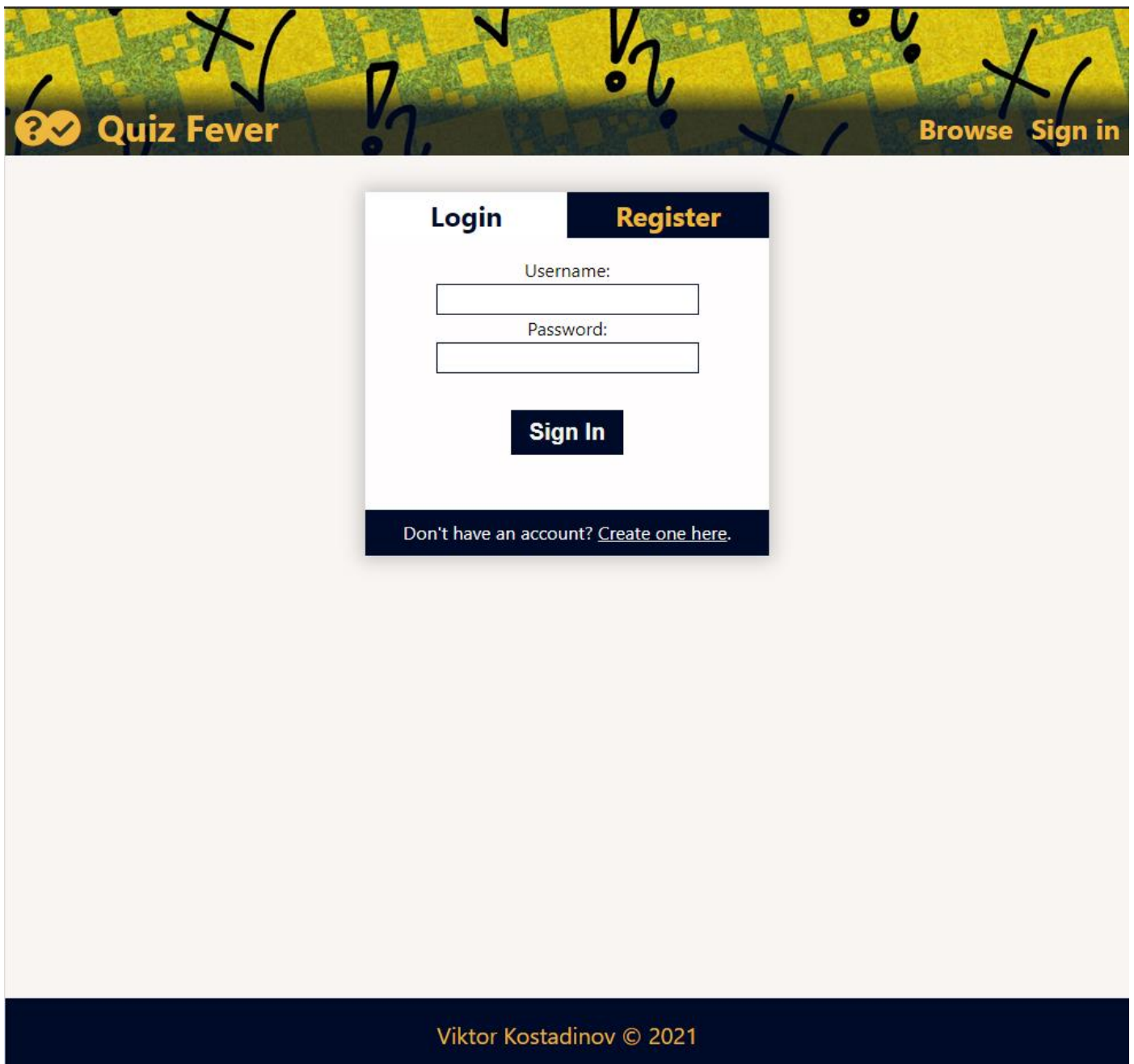


The **logged-in** user navbar should contain the links to the **Browse** page, the **Create** page, the **Profile** page, and a link for a **Logout** action.



Login User

The **Login** page contains a form for existing user authentication. By providing a **username** and a **password**, the user can log in in the system. The form should **not accept any empty fields**.



The image shows a web page for 'Quiz Fever'. The header has a yellow and green patterned background with the text 'Quiz Fever' and 'Browse Sign in'. The main content area is white and features a central form with two tabs: 'Login' and 'Register'. The 'Login' tab is active. The form contains two input fields: 'Username:' and 'Password:'. Below the input fields is a 'Sign In' button. At the bottom of the form, there is a link: 'Don't have an account? [Create one here.](#)'. The footer is dark blue with the text 'Viktor Kostadinov © 2021'.

Quiz Fever

Browse Sign in

Login Register

Username:

Password:

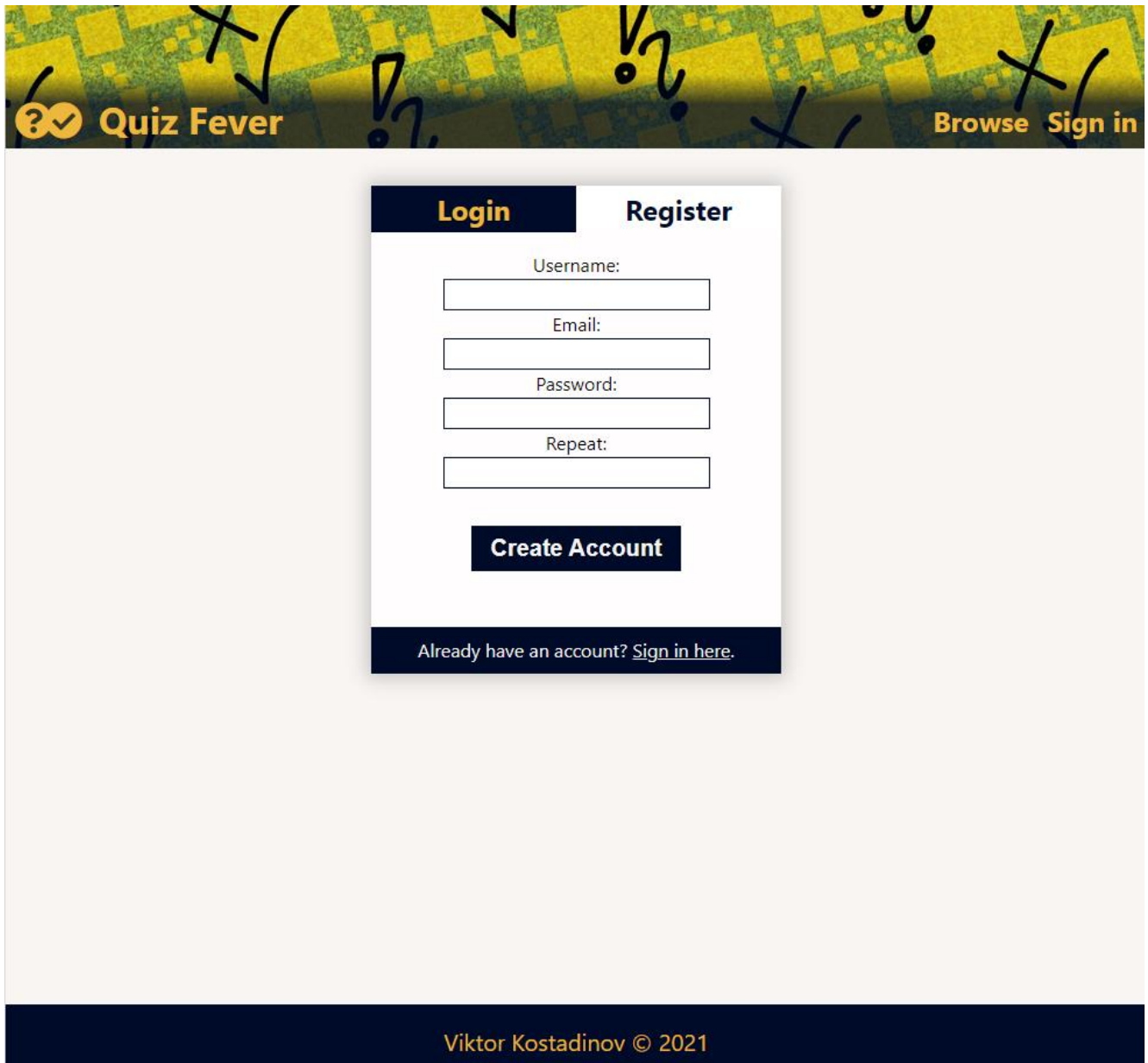
Sign In

Don't have an account? [Create one here.](#)

Viktor Kostadinov © 2021

Register User

The **Register** page contains a form for new user registration. By providing an **email**, a **username**, and a **password**, the app should **register a new user** in the system if there are no empty fields.



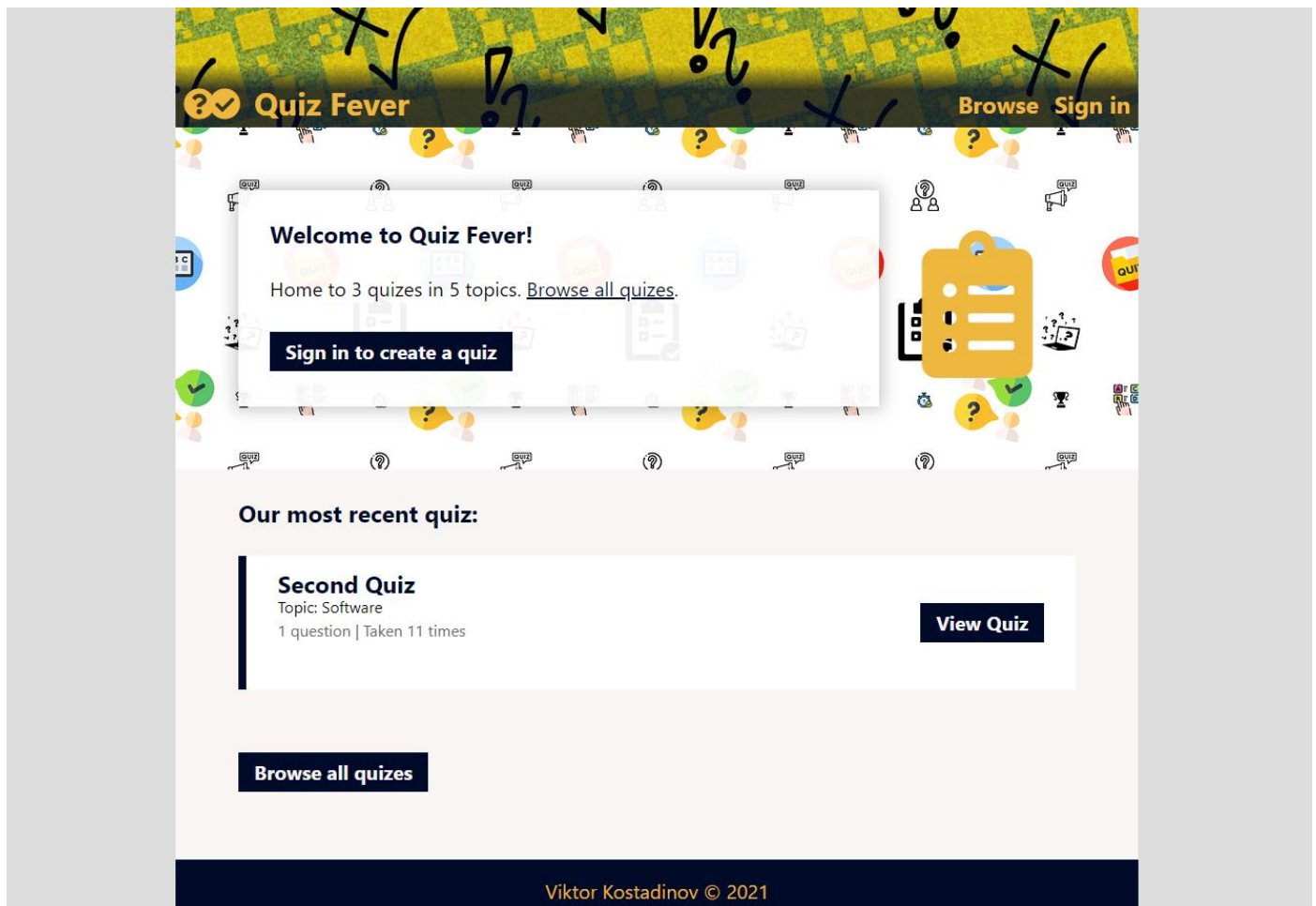
The screenshot shows the 'Quiz Fever' application interface. At the top, there is a header with a yellow and green patterned background. On the left, it says 'Quiz Fever' with a logo. On the right, there are links for 'Browse' and 'Sign in'. Below the header, there is a central white box with a dark blue border. Inside this box, there are two tabs: 'Login' and 'Register'. The 'Register' tab is selected. Below the tabs, there are four input fields labeled 'Username:', 'Email:', 'Password:', and 'Repeat:'. Below these fields is a dark blue button with the text 'Create Account'. At the bottom of the white box, there is a dark blue bar with the text 'Already have an account? [Sign in here.](#)'. Below the white box, there is a dark blue footer bar with the text 'Viktor Kostadinov © 2021'.

Logout

The **logout** action is available to logged-in users.

Welcome Screen


All users should be greeted from the **loading** page, where they should be able to see the most **recent quizzes** and button for all other quizzes.




Quiz Browser

The **Quiz Browser** page includes a **list of quizzes**, and it's possible to **search** by titles and **filter** by topics. All **visitors** (Guests or Users) can view the **catalog**.

All quizzes

All Categories 

Filter Quizzes



Extensible Markup Language
Topic: Languages
15 questions | Taken 54 times

View Quiz

RISC Architecture
Topic: Hardware
10 questions | Taken 107 times

View Quiz

Quiz Details

The **Quiz Details** page contains the quiz' **description**, **statistics**, author **information**, and a **start** button. All **visitors** (Guests or Users) can view the **details**. But only **Users** can **solve** quizzes.

Extensible Markup Language

A quiz by [Peter](#) on the topic of Languages
15 Questions | Taken 189 times

Test your knowledge of XML by completing this medium-difficulty quiz. Lorem ipsum dolor sit amet consectetur adipisicing elit. Aliquam recusandae corporis voluptatum quibusdam maxime similique reprehenderit rem, officia vero at.

Begin Quiz

Quiz Contest Mode

The **Contest Mode** page contains **questions** and their **answers**. Every question has a separate view and an opportunity for **passage** from one question to another. There is a possibility to **restart** the test at any moment.

Only **registered** users can **solve** quizzes and view their **results**.

Extensible Markup Language: Question 1 / 15

Question index



This is the first question. Veniam unde beatae est ab quisquam quos officia, eius harum accusamus adipisci?

- ☐ This is answer 1
- ☐ This is answer 2
- ☐ This is answer 3

12 questions remaining

← Previous

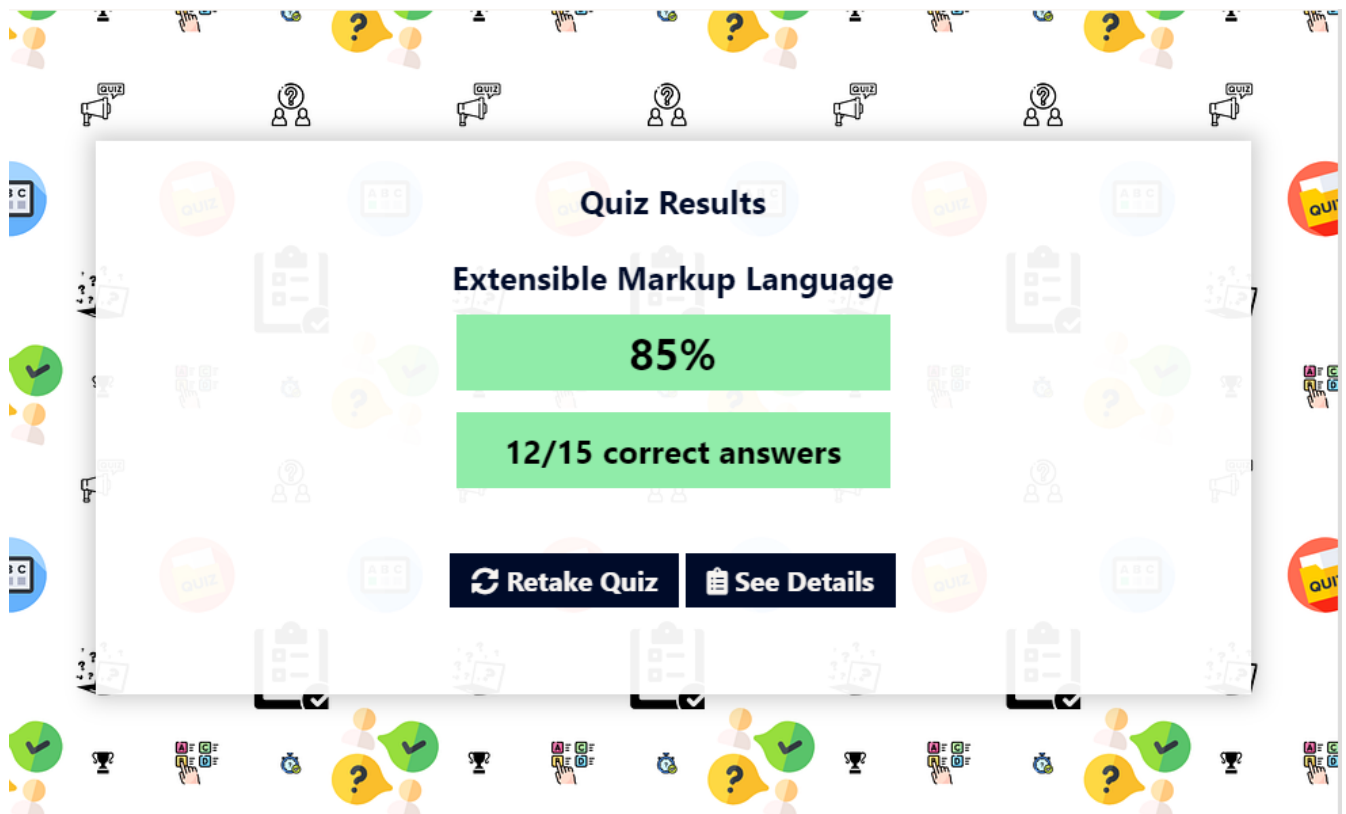
↺ Start over

Next →

Submit answers

Quiz Result

The **Quiz Result** page contains a **summary** of the result and an opportunity to review the **wrong** questions.



Question 1 ✓

See question

Question 2 ✓

See question

Question 3 ✗

Reveal answer

Question 4 ✗

Close

This is the first question. Veniam unde beatae est ab quisquam quos officia, eius harum accusamus adipisci?

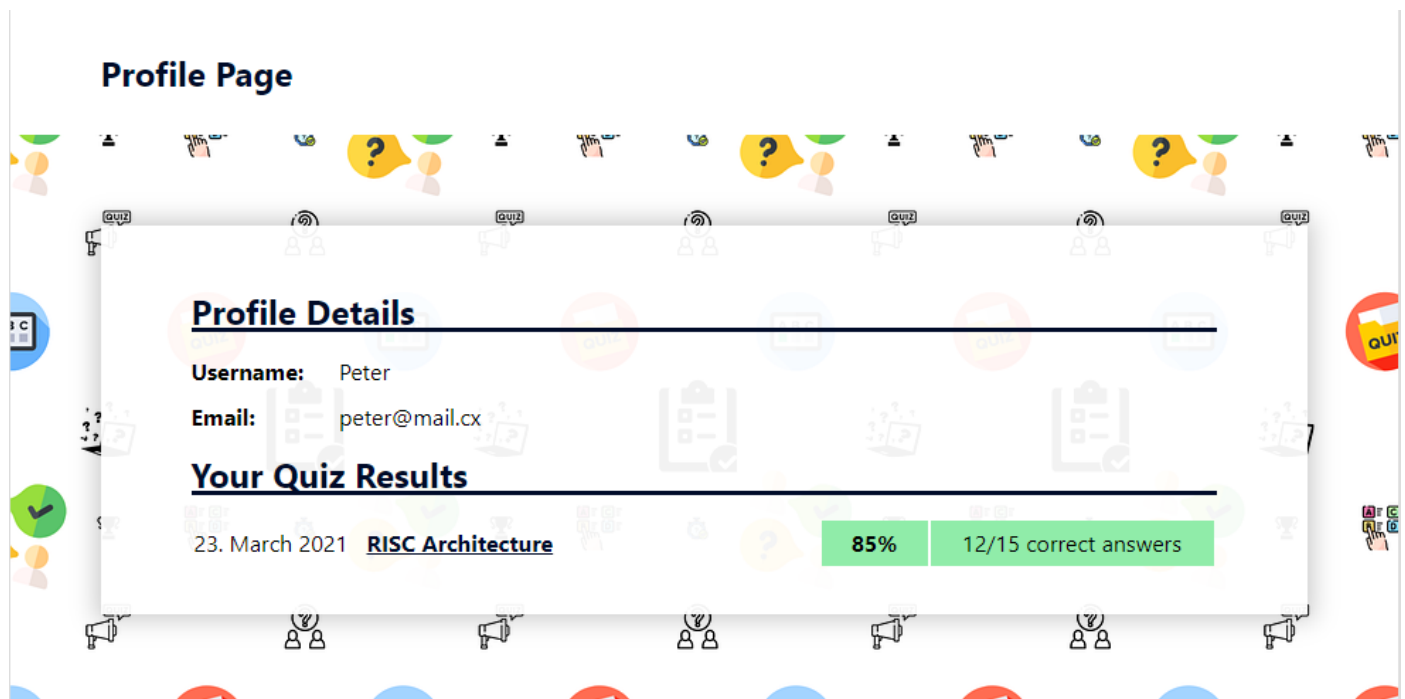
This is answer 1 ✗ **Your choice**

This is answer 2 ✓ **Correct answer**

This is answer 3

Profile Page

The **Profile** page holds **information** for all created and solved quizzes. All **visitors** (Guests or Users) can view creators' **profile** pages.



Quizzes created by you

Extensible Markup Language

Topic: Languages

15 questions | Taken 54 times

[View Quiz](#)

RISC Architecture

Topic: Hardware

10 questions | Taken 107 times

[View Quiz](#)

Quiz Editor

The **Quiz Editor** page is an integrated editor for tests, questions, and answers. Only the quiz' **creator** has access to this page and has the opportunity to **edit** and **delete** questions.

New quiz

Title:

Topic:

Save

Questions

Question 1

Save **Cancel**

Enter question

☐☐☐

+ Add answer

Question 2

Edit **Delete**

This is the second question.

☐ Answer 0

☐ Answer 1

☐ Answer 2

+ Add question