

PROJECT PROGRESS REPORT

PROJECT 1

IIT271-2

Group No: 11

Online Quiz Platform

Quizzify

Industrial Information Technology

Department of Computer Science and Informatics

Uva Wellassa University

06th of August 2023

Group Details

Group members details

Enrollment No.	Name	Email address	Contact number
UWU/IIT/20/061	A.C.Aysha	iit20061@std.uwu.ac.lk	0719931187
UWU/IIT/20/053	M.F.F.Sumra	iit20053@std.uwu.ac.lk	0787988315
UWU/IIT/20/054	M.H.M.Samir	iit20054@std.uwu.ac.lk	0769397677
UWU/IIT/20/057	A.C.M.Akeel	iit20057@std.uwu.ac.lk	0764175277
UWU/IIT/20/068	M.M.S.Ahamed	iit20068@std.uwu.ac.lk	0755702004
UWU/IIT/20/088	M.M.Zakky	iit20088@std.uwu.ac.lk	0770403781

Supervisor details

Name	Email address	Contact number
Mr.M.N.T.Nandasena	nisal@uwu.ac.lk	0711059530

Co-Supervisor details

Name	Email address	Contact Number
Mr.H.P.D.P.Pathirana	dimuth92@gmail.com	0779122911

Approval Signature

Date:

.....

[Mr. M.N.T. Nandasena]

Supervisor

Table of Content

1.INTRODUCTION	4
1.1.Project Title.....	4
1.2.Project background	4
2.2.Project Aims / Objectives	5
2.PROJECT DESCRIPTION.....	6
2.1.Requirements	6
2.1.1 functional requirements	6
2.1.2 Non-Functional requirements.....	7
2.2.User levels and User roles	8
2.3 Diagrams	10
2.3.1 Usecase Diagram.....	10
2.3.2 ER Diagram.....	11
2.3.3 Class Diagram	11
3. METHODOLOGY	13
4. IMPLEMENTATION	14
5. RESOURCES.....	15
5.1 Software resources.....	15
5.2 Hardware resources	16
5.3 Technology	16
6. GANTT CHART	17
6.1 Project timeline	17
6.2 Individual contribution	18
6.3 Future works	18
7. REFERENCES	19
8. APPENDIXES.....	20

1. INTRODUCTION

1.1. Project Title

Online Quiz Platform [Quizzify]

1.2. Project background

One of the challenges that educators face is how to motivate students to engage with quizzes and assessments in a meaningful way. Many students tend to view quizzes as boring, stressful, or irrelevant, and they may not put much effort or attention into them. This can lead to poor learning outcomes and low retention of the material. To address this problem, we have developed Quizzify, an online quiz platform that aims to make quizzes more fun, interactive, and personalized. It is designed for IT enthusiasts who want to gain knowledge in a fun and stimulating way. It also provides analytics and insights for educators to monitor the progress and performance of their students. Quizzify is designed to enhance the learning experience and outcomes of students by making quizzes more engaging and rewarding.

The website has four main types of users: Admin, Instructor, Participant and Guest User. Admin is the user who has the authority and responsibility for all the functions and management of the platform. Instructor is the user who can register to the system and create a quiz with questions according to his/her preference and invite his/her participants to join the quiz by providing a unique ID.

Participant is the user who can register and enter the quiz by using the correct ID given by their instructor and earn rewards accordingly. Guest User is the user who can view the website and access some of its features without registering. They can also try some sample questions up to a certain limit and if they want to continue they need to register into the system.

In addition to the basic functionalities, Quizzify also provides articles, And a chatbot system to interact with users which will upgrade the user experiences of the system along with some attractive and responsive interface for the users. The system is set up in a way that all the user details, questions and other data are stored in respective databases securely. The system also keeps track of all the activities and records. The system aims to provide an effective and user-friendly environment for learning and quizzing.

2.2. Project Aims / Objectives

- Providing users an interesting and productive learning environment.
- Educate users in the field of Information Technology.
- Testing user knowledge on specific areas of IT.
- Providing user friendly environment where users can engage with the system easily.
- Providing a responsive system where users can get optimum use in an easy manner.
- Maintain a database that stores all the relevant information, questions, answers and rewards for the quizzes and the users.
- Managing user and quiz details.

2. PROJECT DESCRIPTION

2.1 Requirements

2.1.1 functional requirements

- Registration and Login
 - Users can register into the system and log in using the email address.
 - Admin can login to the system by providing a predefined username and password which makes admin a super user.
 - Registered accounts are verified by sending a verification code via the email addresses.
 - By registering into the system, users can start the quizzes or play the quizzes.
 - Users can view, edit and manage their user accounts.
- Admin dashboard
 - Quiz control.
 - Viewing quiz results.
 - View and manage users.
 - Managing system updates.
- User
 - Register into the system and play quizzes.
 - Creating their own quizzes.
 - View participants list if he is an instructor.
 - Choosing quiz type.
 - Providing rewards.
 - View quiz analysis.
 - Enabling or disabling participants from viewing the quiz analysis.
 - Create, edit or delete their own questions.

- Attempting quizzes directly or by proving the correct ID provided by an instructor.
 - Viewing the rewards after completing the quiz.
 - Provide rating and reviews.
 - Edit their profiles.
- Chatbot
 - Chatbot system provide a better user experience.
 - It allow users to clarify their doubts by generating answers to the questions received.
- Guest user
 - View blogs.
 - Attempt sample quizzes.

2.1.2 Non-Functional requirements

- Providing user friendly environment.
- Efficient system.
- Easy to navigate.
- Ability to provide fast and reliable performance.
- Ensuring the security of user details.
- Providing responsive and compatible web pages.
- Should be maintainable.
- Ensuring the security of the platform.

2.2. User levels and User roles

- High level user

1. Admin

- Login.
- Manage user details.
- Handle quizzes.
- View and remove users.
- View quiz results.

- Middle level user

1. Instructor

- Login
- Customize questions.
- Create unique ID to provide participants.
- View participants of his quiz.
- Choosing quiz type.
- View quiz analysis.
- Providing rewards and scores for the quiz.
- Enabling and disabling participants from viewing their quiz analysis.
- End quiz.
- Provide rating and reviews.
- Change or delete the created questions.
- Attempting already available questions from the question bank.
- View blogs.

- Low level users

1. Participant

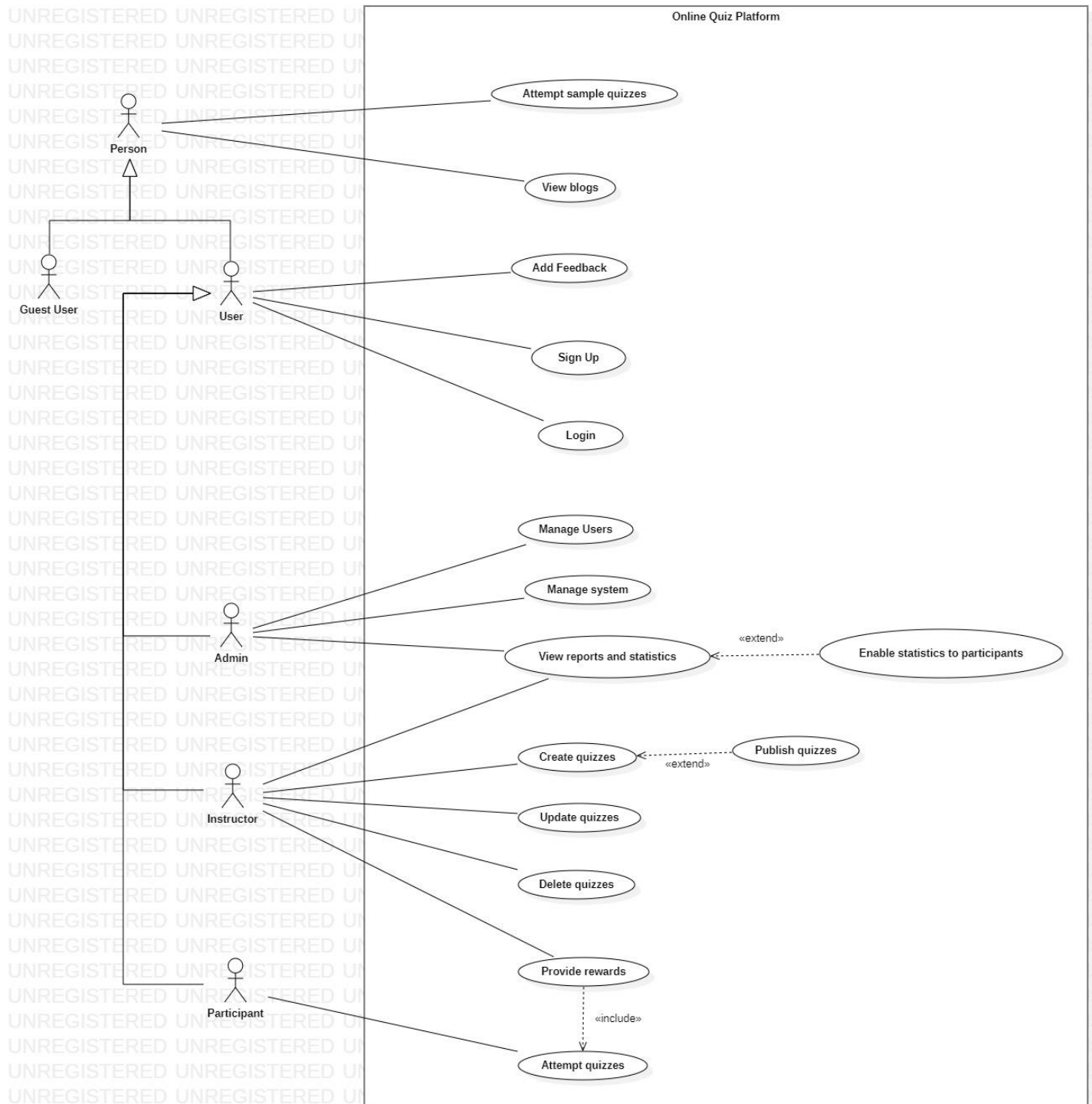
- Login
- Providing the correct ID given by the respective instructor to attempt the quizzes.
- Attempt quizzes.
- View rewards.
- Add reviews.
- View blogs.

2. Guest user

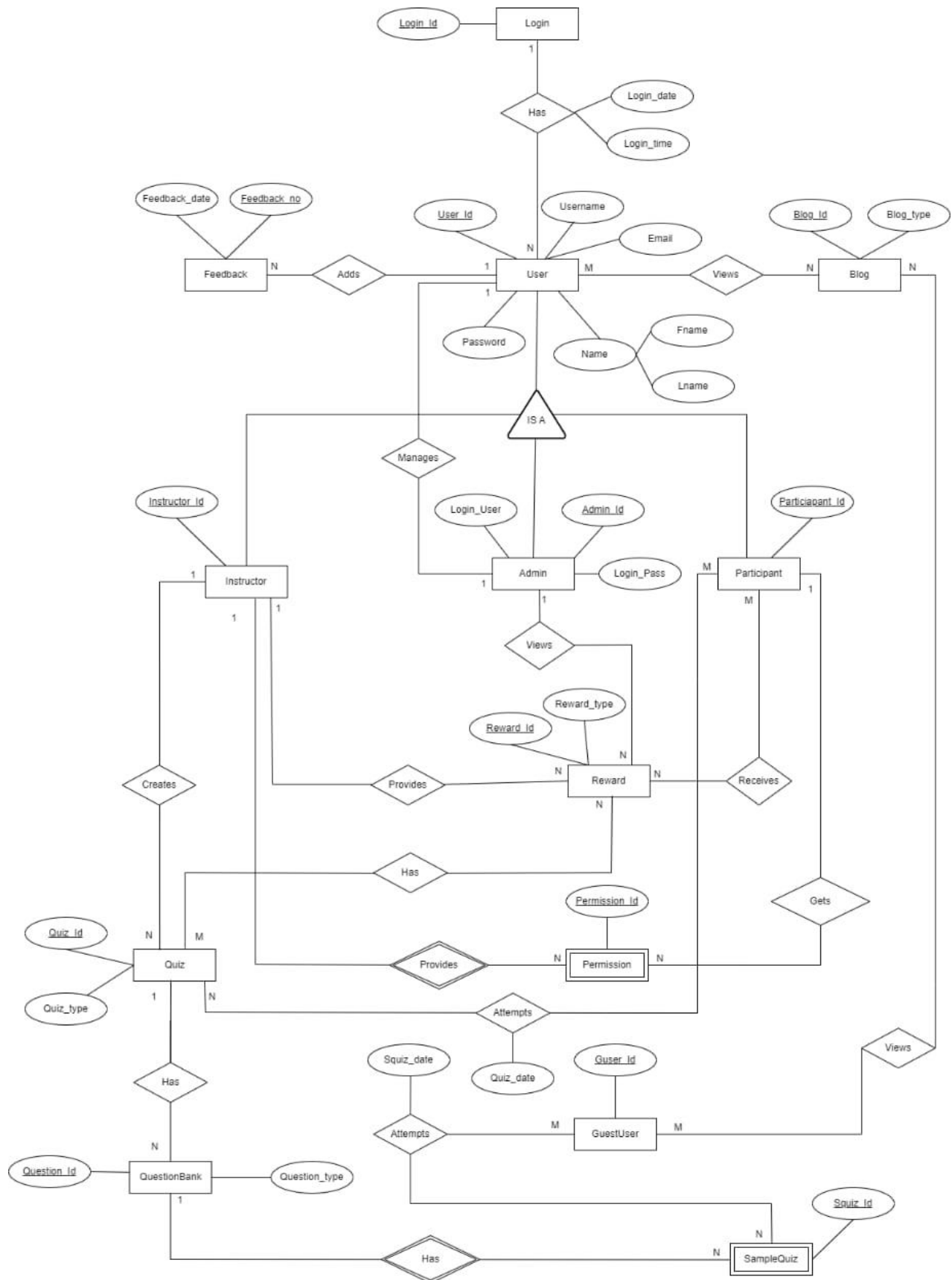
- View the website.
- View blogs.
- Attempt sample quizzes.

2.3 Diagrams

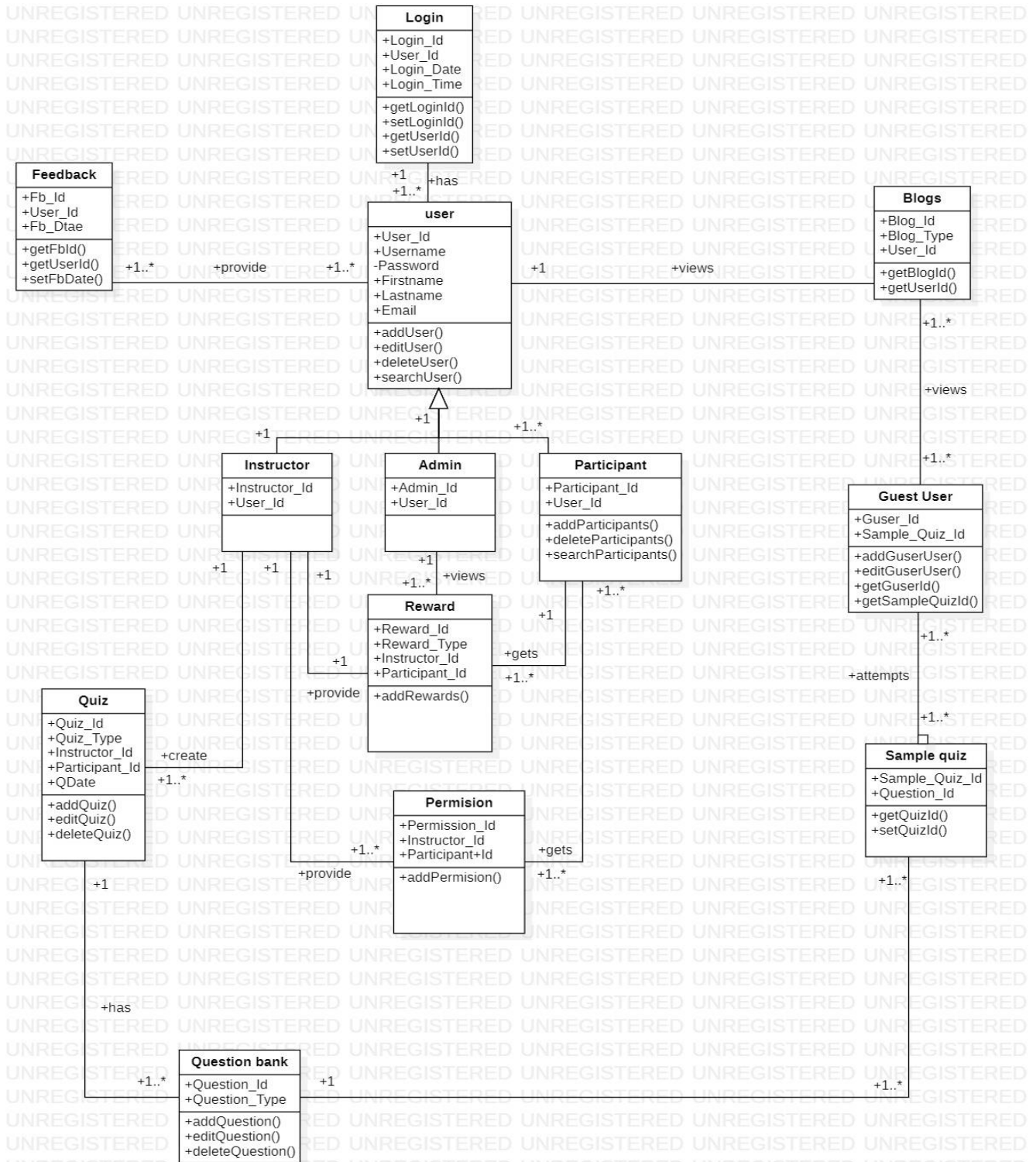
2.3.1 Usecase Diagram



2.3.2 ER Diagram



2.3.3 Class Diagram



3. METHODOLOGY

One of the most widely used approaches for software development is the incremental development methodology. This method involves breaking down the project into smaller and more manageable units, each of which can be developed, tested, and delivered separately. The main benefits of this approach are that it allows for faster feedback, better quality assurance and more flexibility to accommodate changing requirements. Therefore, we have chosen incremental development methodology to develop our project.

Steps taken to follow the methodology:

- Define the scope and requirements of the project, such as the target audience, the quiz topics, etc.
- Break down the project into smaller and manageable tasks, such as creating admin dashboard, instructor dashboard, user registration, user profile management, Quiz creation and API handling.
- Prioritize the tasks based on their importance and dependencies, such as completing the core functionalities before adding extra features.
- Assigned the tasks to different team members according to their skills and availability and set deadlines for each task.
- Develop and test each task individually, using tools such as prototypes, unit tests, etc.
- Integrate and test the completed tasks with the rest of the project, using tools such as version control, code review, integration tests, etc.
- Review and evaluate the project progress regularly, using tools such as feedback forms, user testing, analytics, etc. (Review and evaluation will be done by the supervisor)
- Identify and resolve any issues or bugs that arise during the development process.
- Repeat steps several times until all the tasks are completed and the project meets the requirements and expectations of the stakeholders.
- Deploy and maintain the online quiz website, using tools such as hosting services, security measures, backup systems, etc.

4. IMPLEMENTATION

We started the implementation of our system with the user registration, user profile management, and admin dashboard. The database was built in accordance with the ER diagram and we are currently working on integrating it into the system.

The frontend/UI of other targeted functionalities are under the designing phase and most of them are completed, while the backend work of targeted area is proceeding as planned. In the user registration section, we utilized an email verification mechanism to validate the user by sending a verification code to their email address. The administrator has a specified username and password, making him a super user. And the admin dashboard contains all user account management and quizzes. We are almost completed with our planned target and the email verification in registration and resetting password by sending verification through email also will be updated in the system soon, as we are working on that.

Some of the created pages have been added in the appendixes of the report, while the rest of the works are under progress.

5. RESOURCES

5.1 Software resources

1. XAMPP server

- XAMPP is a free open-source cross platform web server stack package. XAMPP is used to test a website locally before releasing it to the main server.

2. Visual studio code

- Visual studio code is a code editor used to run task and debugging during the development phase.

3. Star UML

- Star UML is a Unified Modeling Language (UML) used to support as a tool in software modeling. It is an open source software modeling tool.

4. Photoshop

- Photoshop is a paid software used to edit photos and graphic editor. It can also be used as a UI sketcher.

5. Postman API

- Postman is an API platform used for building and using APIs.

6. Microsoft Word and Microsoft PowerPoint

- Microsoft word is word processing software and Microsoft power point is presentation a by Microsoft office 365.
- Both the Microsoft word and Microsoft PowerPoint is used for documentation of simple and complex documents.

7. Freepik

- Freepik is a search engine that helps to find high quality photos and images.

5.2 Hardware resources

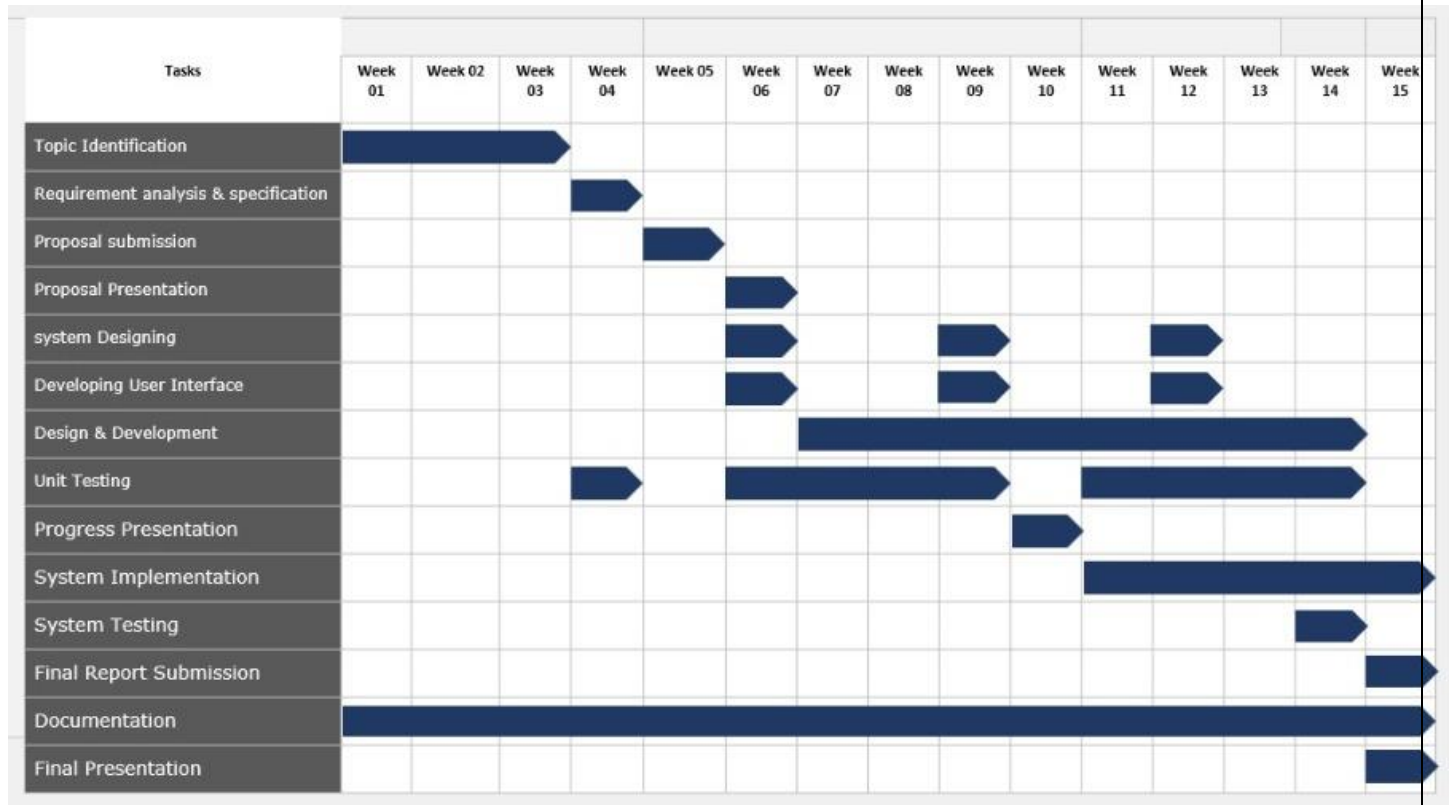
- Computer and laptop with enough processing power, memory, and storage to run the software tools and applications.
- A backup device or service to store and protect the data and code of the project.
- A printer or scanner to print or scan documents related to the project.

5.3 Technology

- CSS 3
- HTML 5
- PHP
- MySQL
- JavaScript
- Framework (Bootstrap, ReactJS)
- APIs

6. PROJECT PLAN

6.1 Project timeline



6.2 Individual contribution

Contributing area	Member
Admin dashboard	M.M. Zakky
Instructor dashboard	A.C.M. Akeel
User registration	A.C Aysha
User profile management	M.H.M. Samir
Quiz creation	M.F.F. Sumra
Question generation using API	M.M.S. Ahamed

6.3 Future works

- Instructor dashboard.
- Quiz creation or customization.
- Question generation using API
- And other required features and backened functionalities.

7. REFERENCES

- Amazon Web Services (2023). *What is an API? - API Beginner's Guide - AWS*. [online] Amazon Web Services, Inc. Available at: <https://aws.amazon.com/what-is/api/>.
- Kahoot! (n.d.). *Kahoot! Quiz games | Spark your child's natural curiosity for learning*. [online] Available at: <https://kahoot.com/home/kahoot-quiz-games/>.
- OpenAI (2023). *ChatGPT*. [online] chat.openai.com. Available at: <https://chat.openai.com/>.
- PHP Tutorial. (n.d.). *PHP Tutorial*. [online] Available at: <https://www.phptutorial.net/>.
- quizlet (2019). *Quizlet*. [online] Quizlet. Available at: <https://quizlet.com/en-gb>.
- www.w3schools.com. (n.d.). *Bootstrap 5 Tutorial*. [online] Available at: <https://www.w3schools.com/bootstrap5/index.php>.

APPENDIXES

Home Page

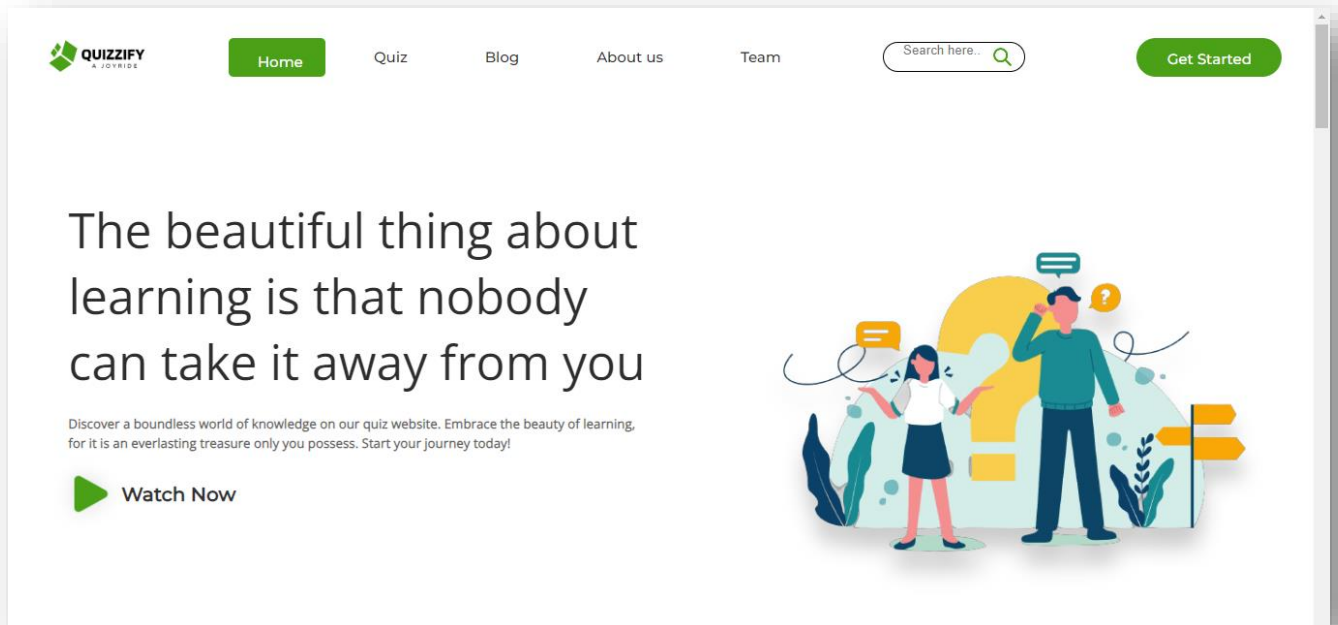


Figure 01

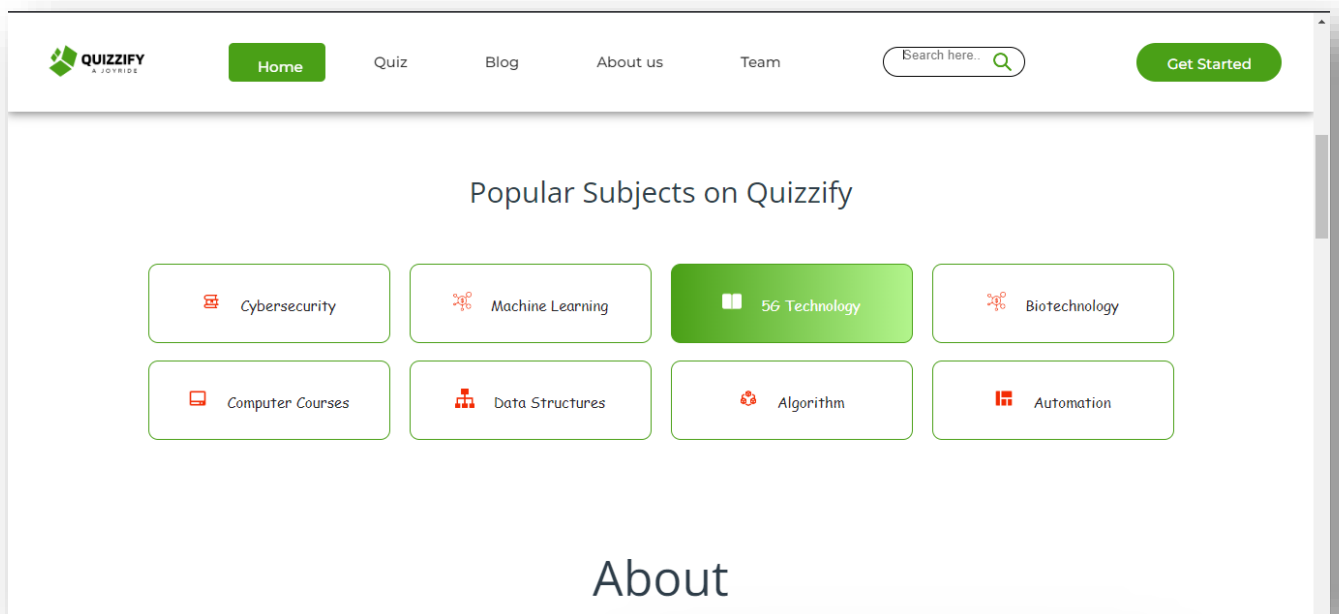


Figure 02

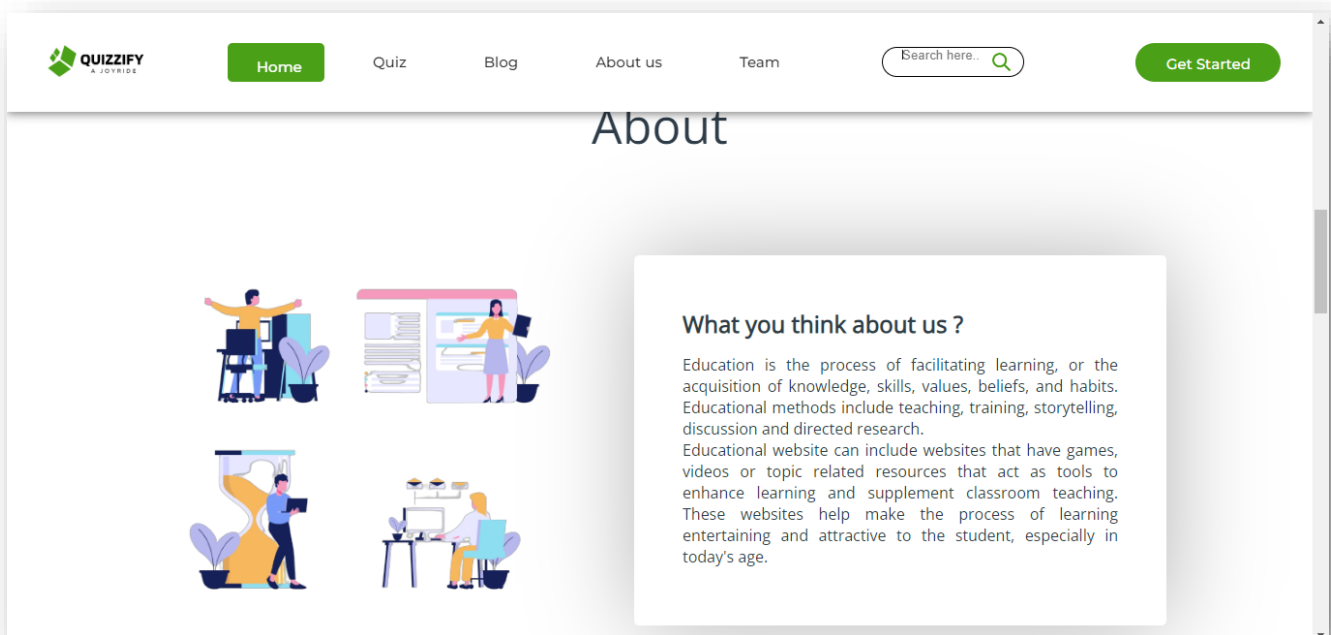


Figure 03

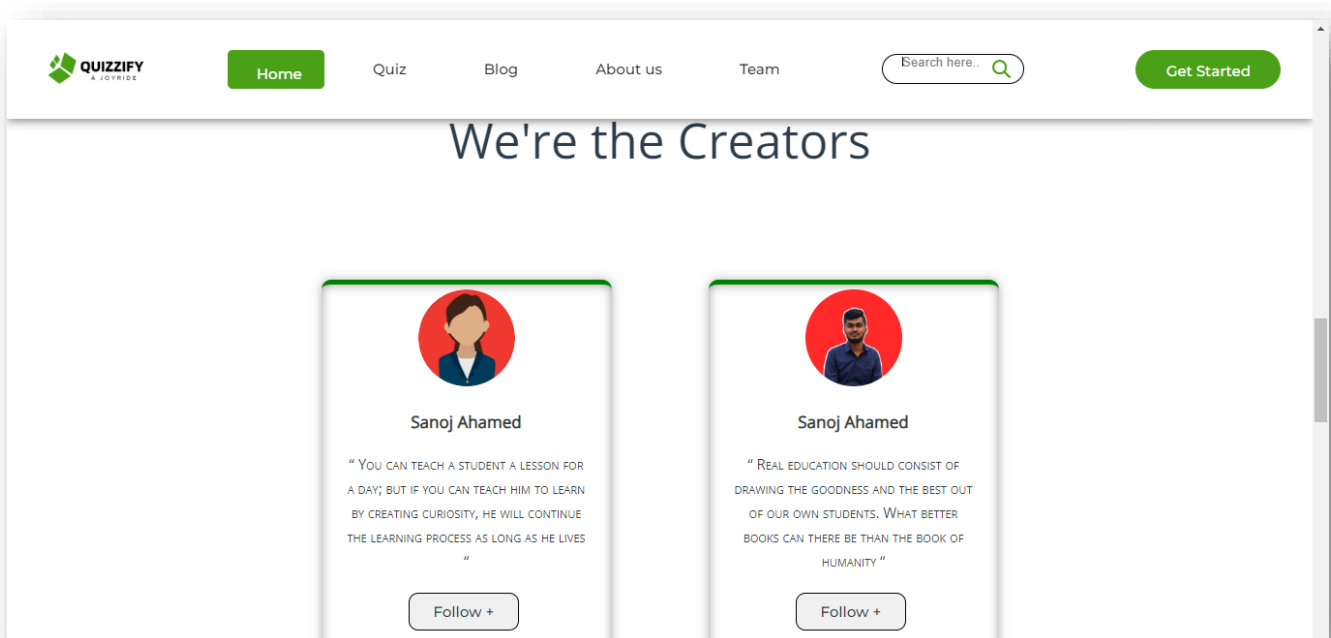
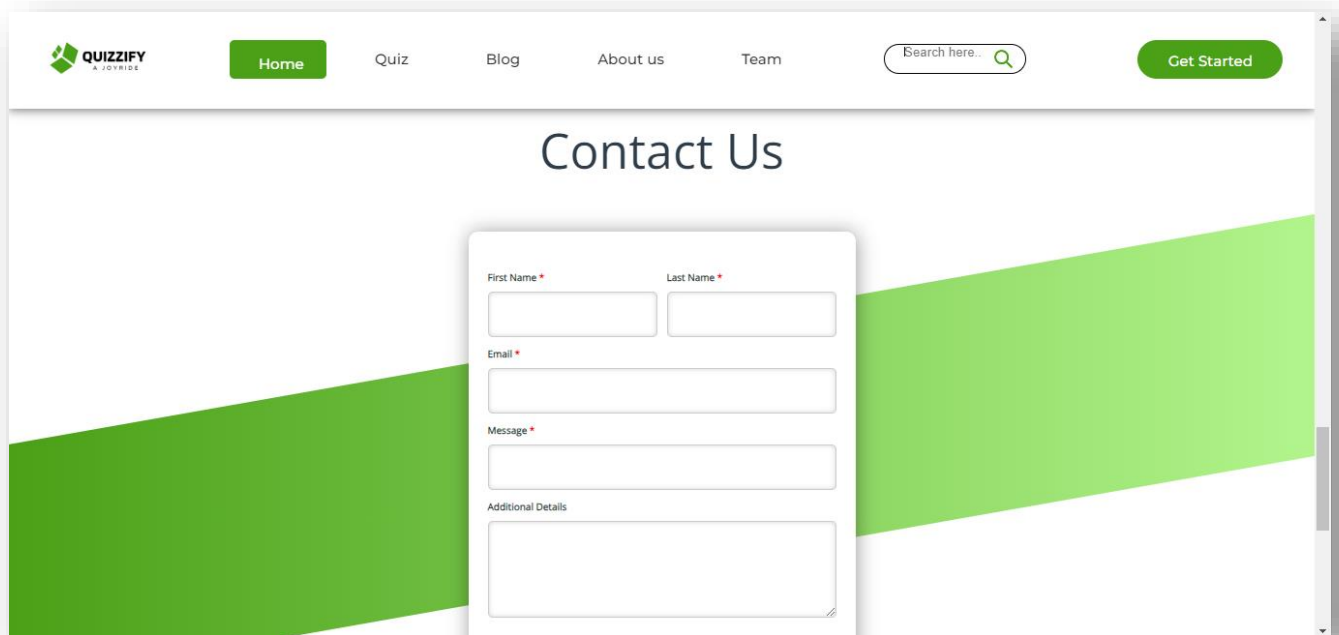


Figure 04

Home Page



The image shows a web browser window displaying the 'Contact Us' page of the Quizzify website. The header features the Quizzify logo, navigation links (Home, Quiz, Blog, About us, Team), a search bar, and a 'Get Started' button. The main content area has a large green diagonal graphic on the left and a white contact form in the center. The form includes fields for First Name, Last Name, Email, Message, and Additional Details, each with a red asterisk indicating required fields. A green 'Send Message' button is positioned below the form.

QUIZZIFY
A JOYRIDE

Home Quiz Blog About us Team

Search here..

Get Started

Contact Us

First Name * Last Name *

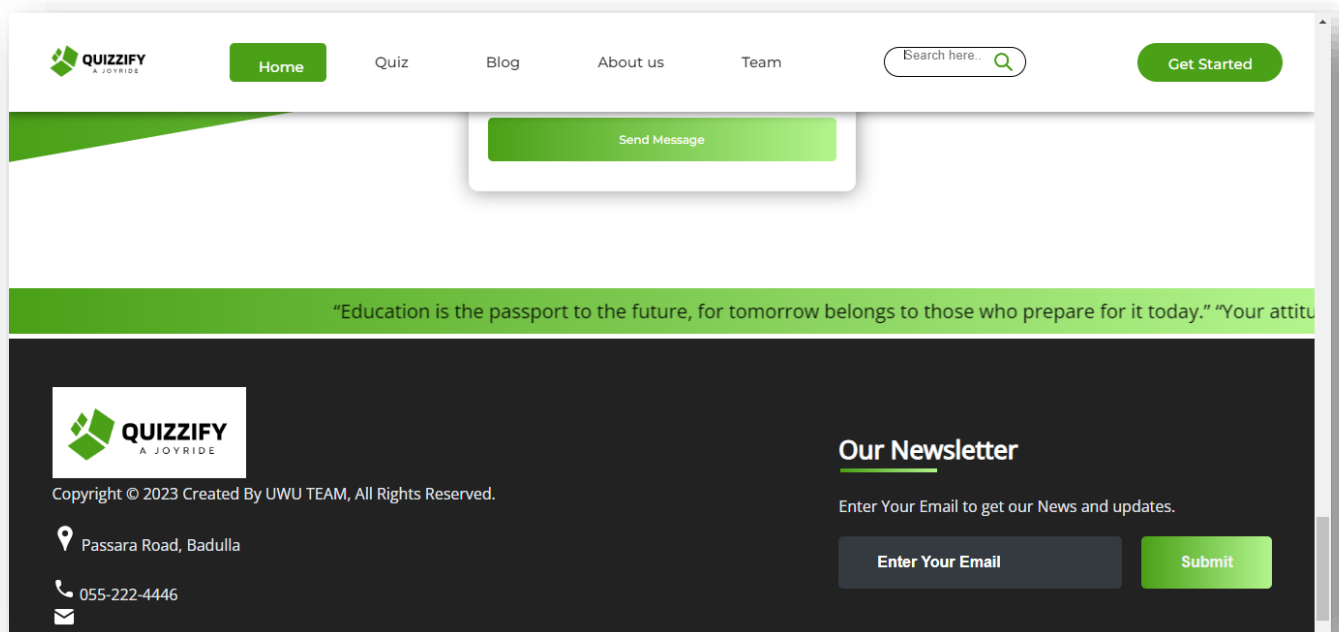
Email *

Message *

Additional Details

Send Message

Figure 05



The image shows the footer section of the Quizzify website. It features a dark background with the Quizzify logo and contact information on the left, and a newsletter sign-up section on the right. The contact information includes the copyright notice, address, and phone number. The newsletter section has a heading, a description, and a form with an 'Enter Your Email' field and a 'Submit' button.

QUIZZIFY
A JOYRIDE

Copyright © 2023 Created By UWU TEAM, All Rights Reserved.

Passara Road, Badulla

055-222-4446

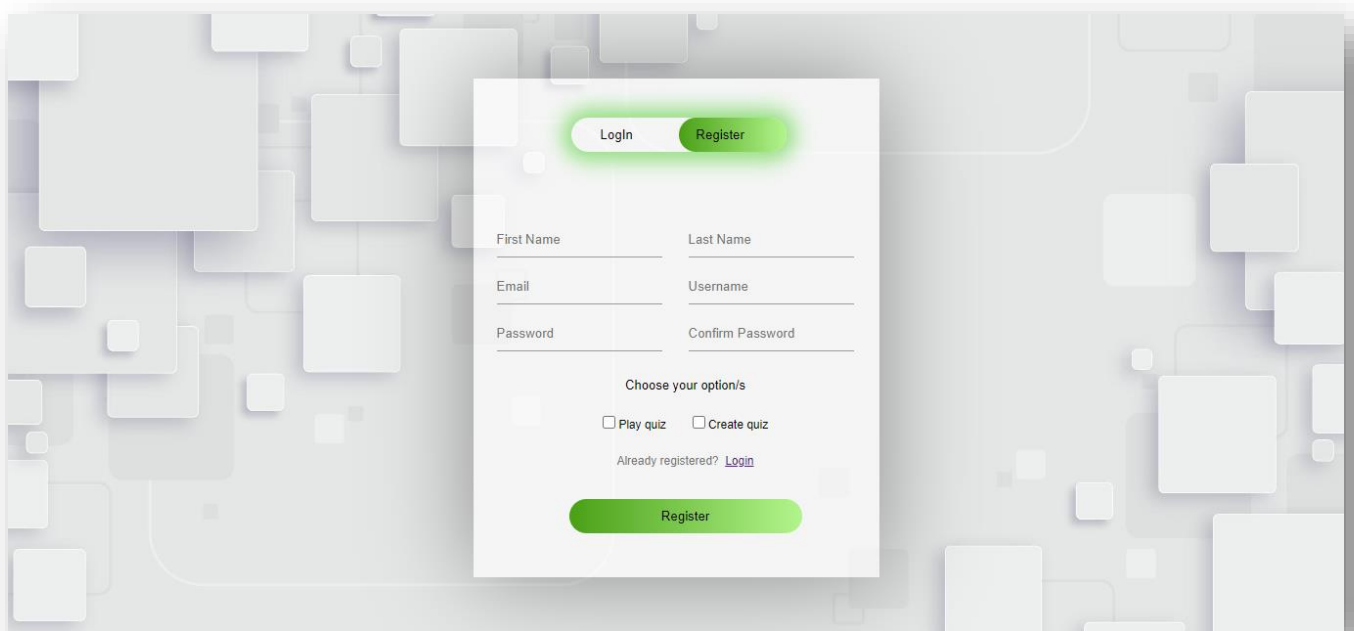
Our Newsletter

Enter Your Email to get our News and updates.

Enter Your Email Submit

Figure 06

Registration Page



A registration form UI mockup on a light gray background with a pattern of overlapping squares. The form is a white card with rounded corners. At the top, there are two buttons: 'Login' and 'Register', both with a green gradient. Below these are input fields for 'First Name', 'Last Name', 'Email', 'Username', 'Password', and 'Confirm Password'. Under the input fields, there is a section titled 'Choose your option/s' with two checkboxes: 'Play quiz' and 'Create quiz'. Below this is a link 'Already registered? Login'. At the bottom of the form is a large green 'Register' button.

Login Register

First Name Last Name

Email Username

Password Confirm Password

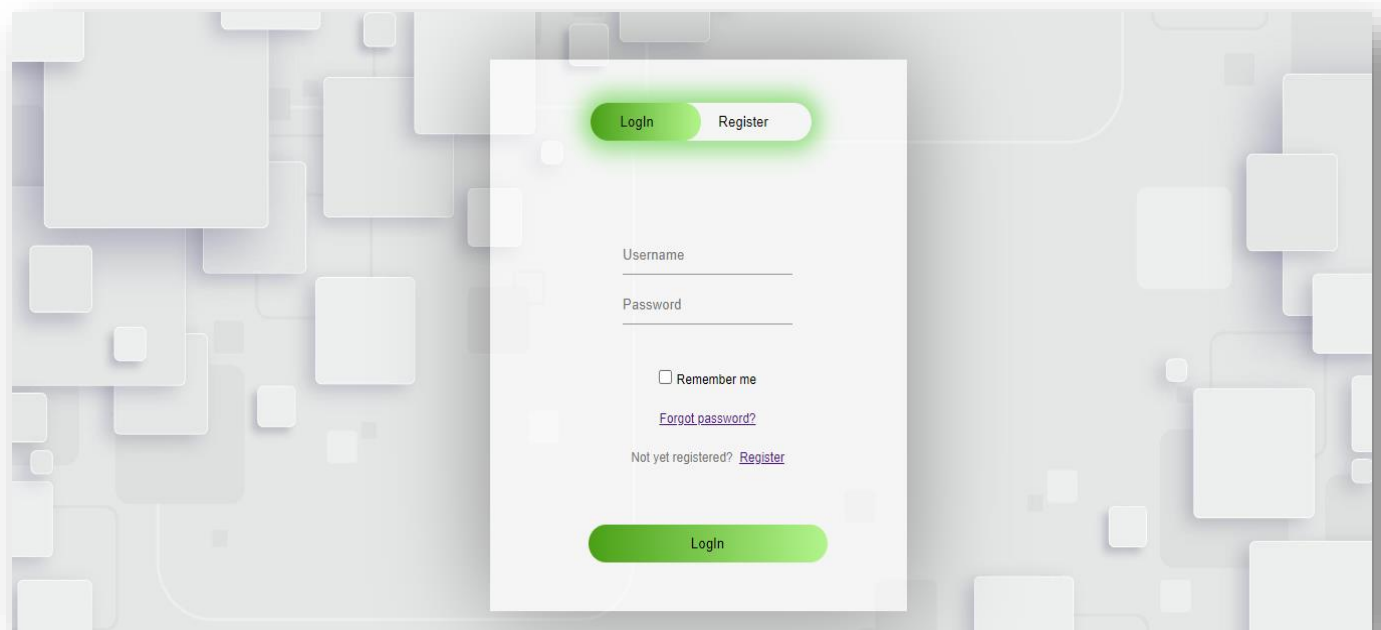
Choose your option/s

☐ Play quiz ☐ Create quiz

Already registered? [Login](#)

Register

Figure 07



A login form UI mockup on a light gray background with a pattern of overlapping squares. The form is a white card with rounded corners. At the top, there are two buttons: 'Login' and 'Register', both with a green gradient. Below these are input fields for 'Username' and 'Password'. Under the input fields, there is a checkbox 'Remember me', a link 'Forgot password?', and a link 'Not yet registered? Register'. At the bottom of the form is a large green 'Login' button.

Login Register

Username

Password

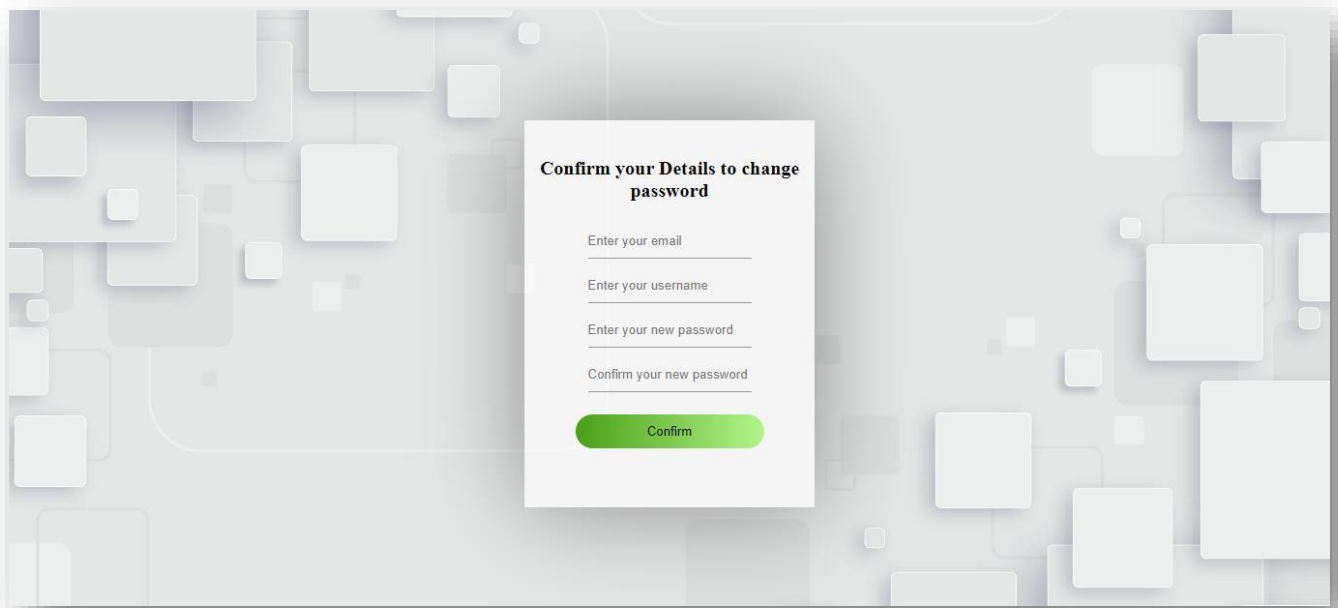
☐ Remember me

[Forgot password?](#)

Not yet registered? [Register](#)

Login

Figure 08



Confirm your Details to change password

Enter your email

Enter your username

Enter your new password

Confirm your new password

Confirm

Figure 09

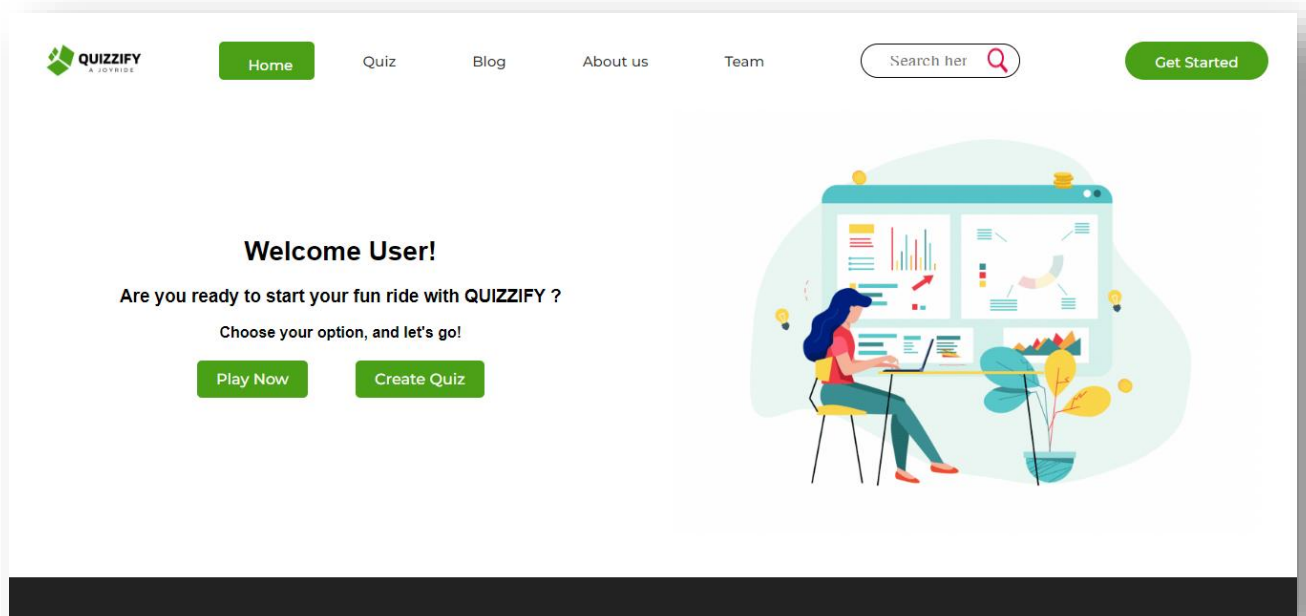


Figure 10

Quiz Interfaces

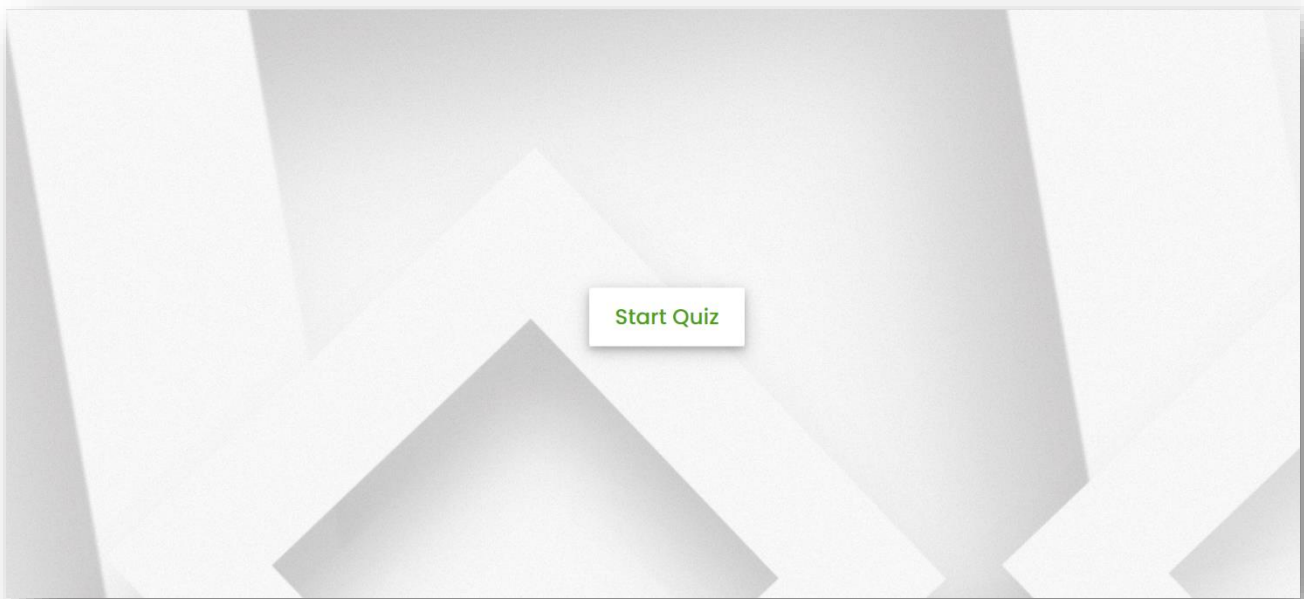


Figure 11

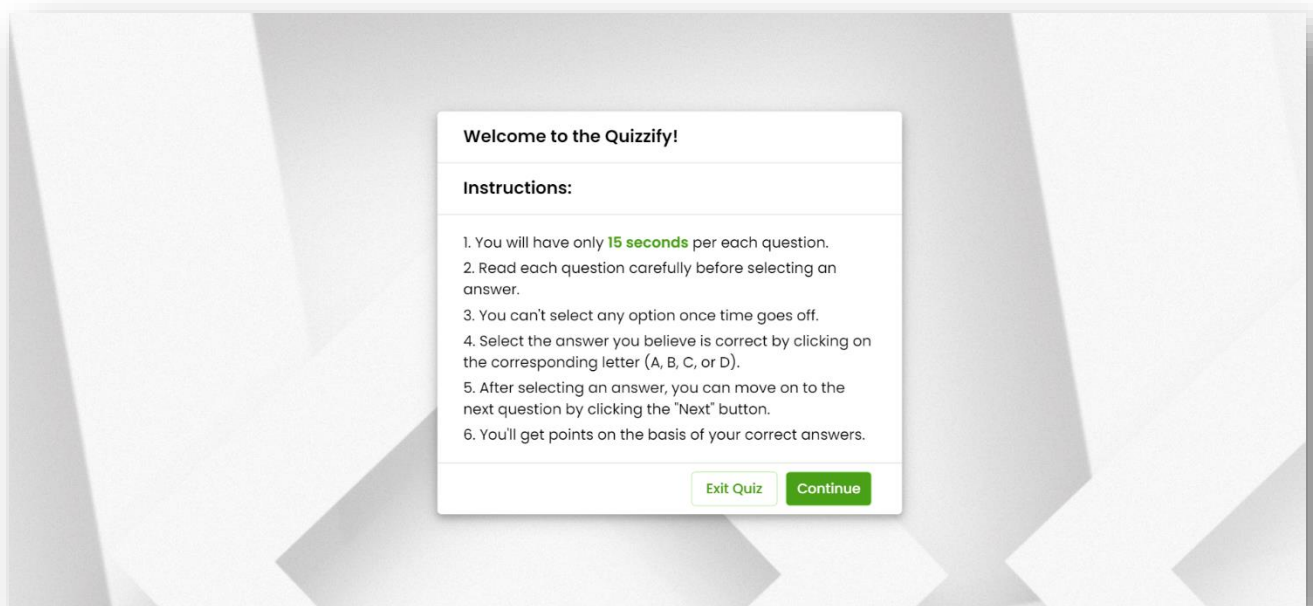


Figure 12

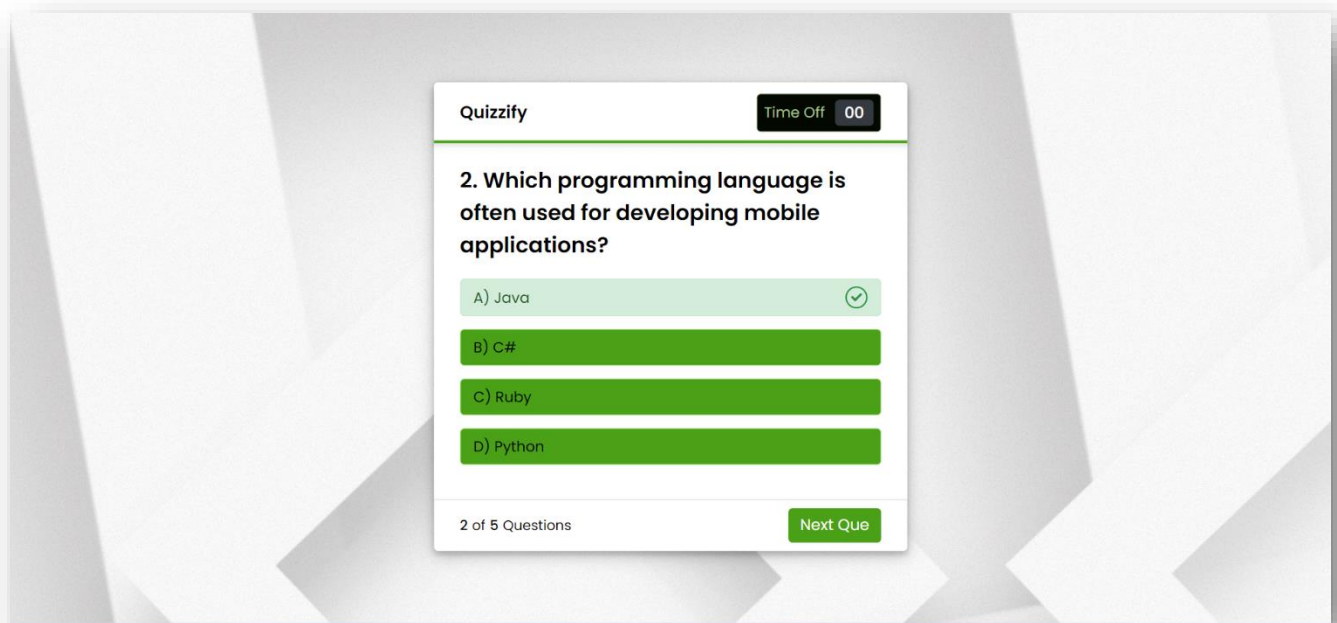


Figure 13

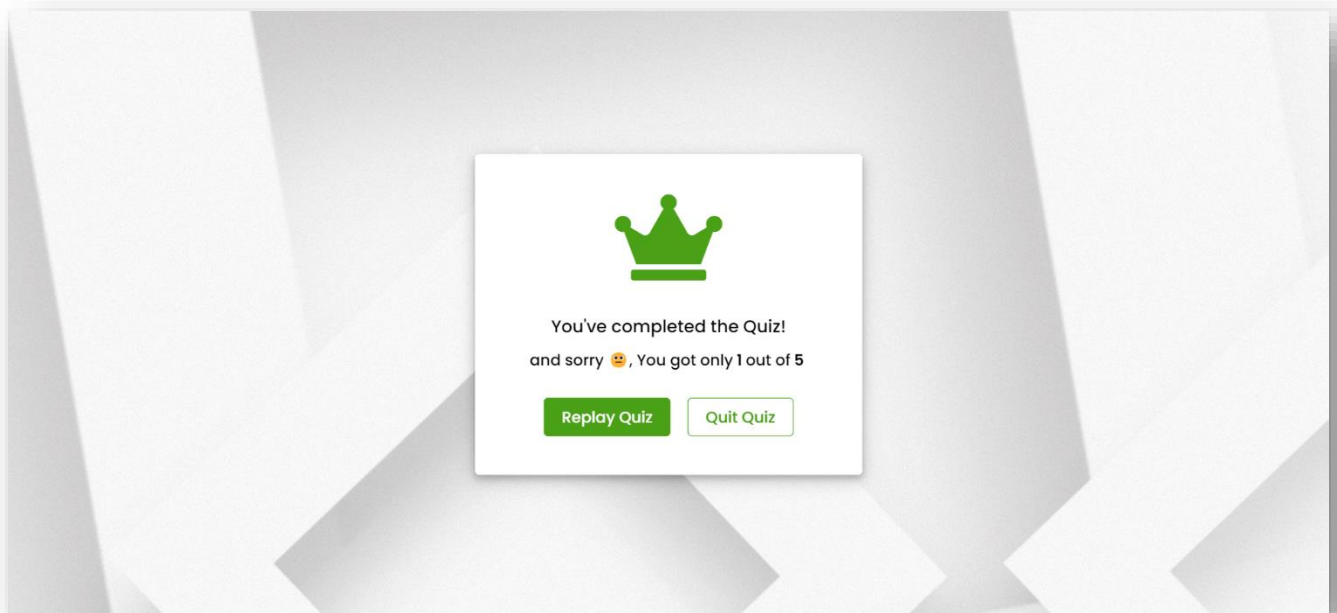


Figure 14

API generated quiz interface

Quizzify

Moore's law originally stated that the number of transistors on a microprocessor chip would double every...

Science: Computers

1. Year

2. Four Years


3. Two Years

4. Eight Years

SUBMIT 😊

Figure 15

Chatbot



Hello 🍌

How can I assist you today?

Send a Message

✕

Figure 16

Admin Dashboard

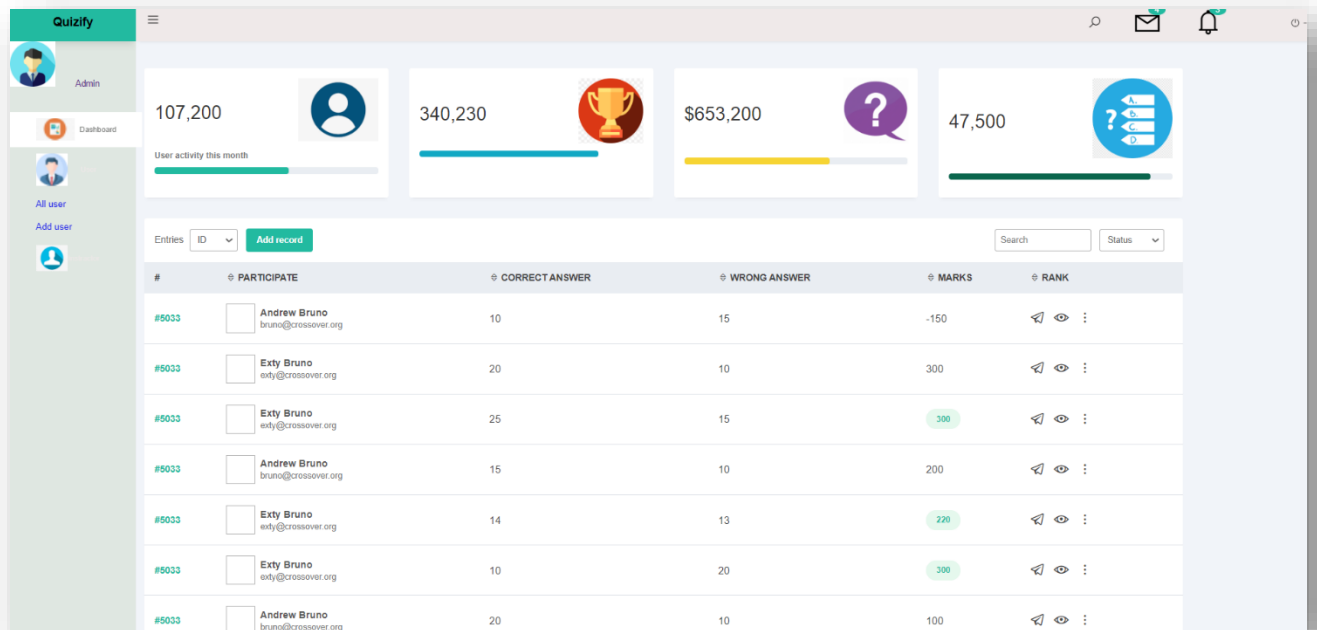


Figure 18

The form is titled "Edit User Details" and contains the following fields:

- First Name: Aysa
- Last Name: aysacader
- Email: aysacader2000@gmail.com
- Password: asdfghhZasd12@#ghjkllo

An "Edit" button is located at the bottom left of the form.

Figure 19

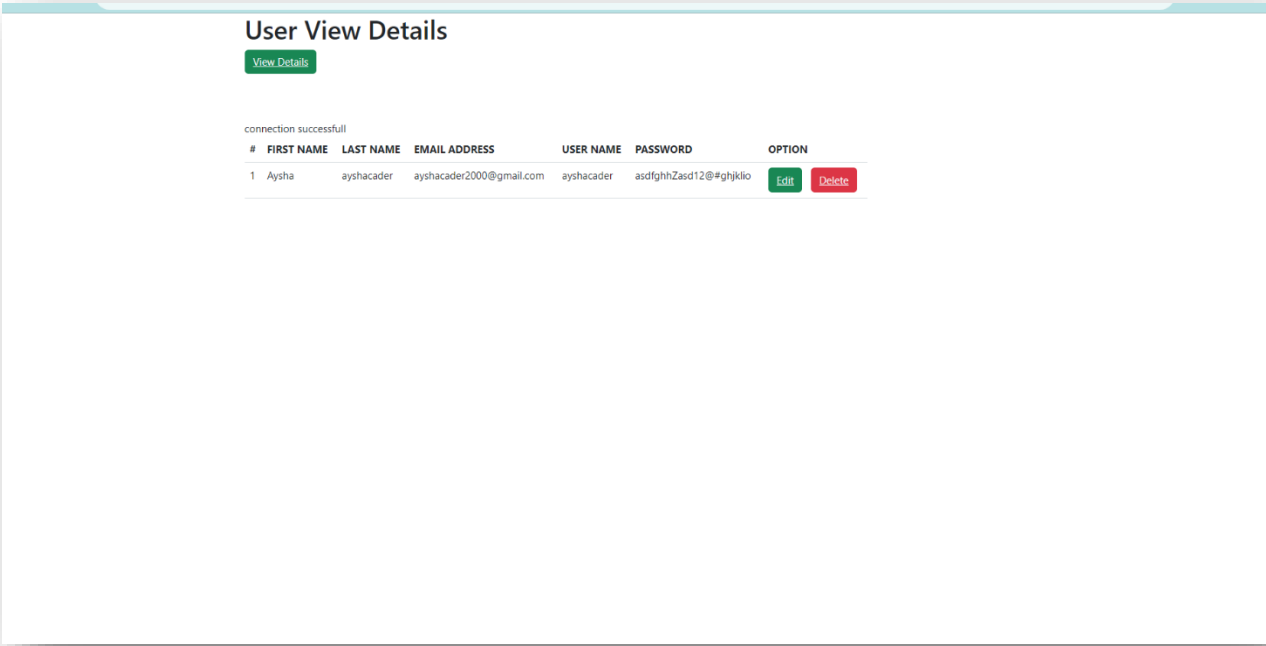


Figure 20

User profile

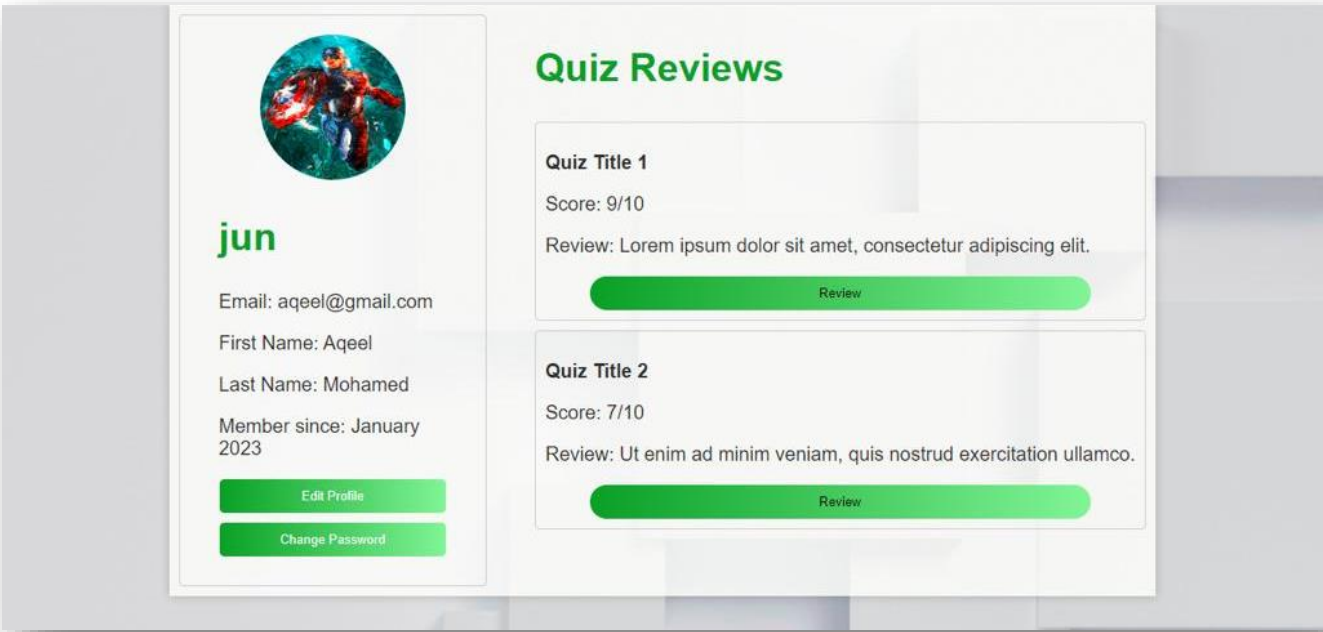


Figure 21

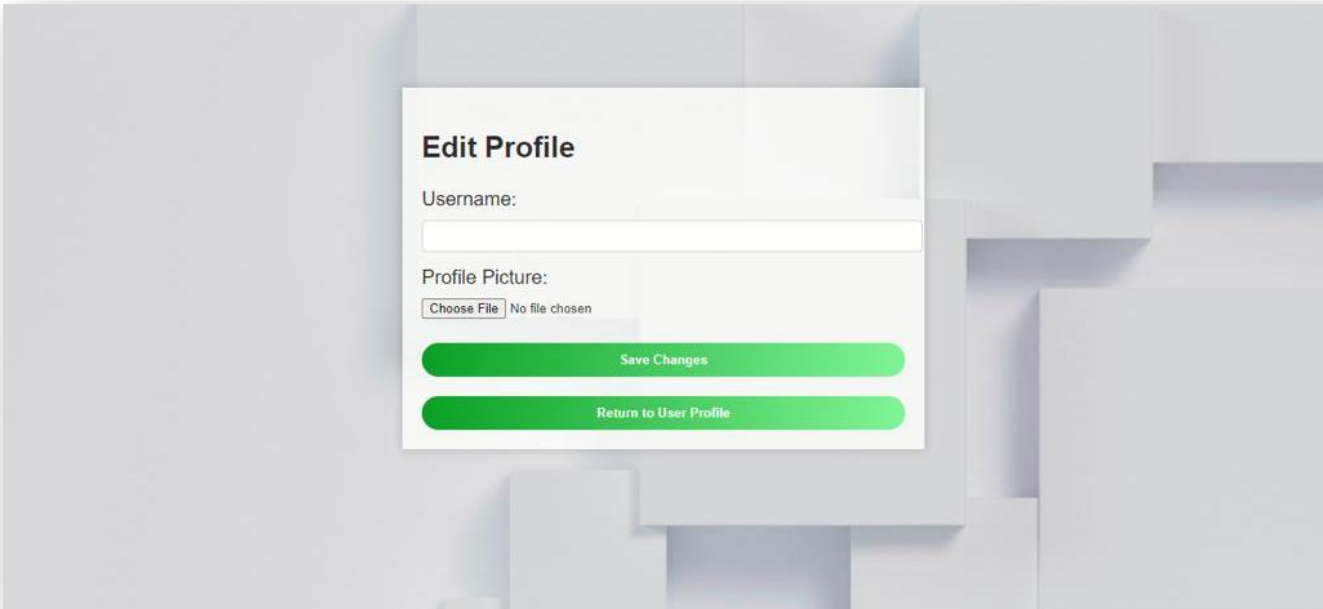


Figure 22