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**ASIA PACIFIC UNIVERSITY
OF TECHNOLOGY & INNOVATION**

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1.0 Introduction and Project Plan

1.1 Introduction

The ProMaths project aims to transform mathematics education by creating a new, dynamic, and user-friendly online platform for teachers and students. Building an interactive and user-friendly online software that meets the specific requirements of educators, administrators, and students is the main goal of this project. The website provides students with an intuitive interface that allows them to access multiple-choice tests organised by mathematical topic, allowing them to better grasp important ideas. Learning becomes even more engaging and fruitful when students can monitor their own progress, accomplishments, and performance with the help of immediate feedback and in-depth assessments of their results.

On the other side, educators have access to all the resources they need to design, modify, and administer quizzes effectively, so they may adapt evaluations to their own pedagogical aims. Teachers may keep tabs on their students' progress, evaluate the data, and provide helpful criticism to make learning more relevant and effective. By controlling user accounts, checking quiz material, and making sure the platform runs smoothly, administrators ensure the site's integrity and functioning. With its powerful administrative features, the platform is well-structured and protected, making it a dependable system for everyone.

In order to cater to the varied needs of educational institutions, ProMaths is built to be both scalable and user-friendly. The goal of the platform is to improve the accessibility, efficiency, and engagement of mathematics education by catering to the unique requirements of administrators, students, and instructors. Academic settings that are looking to improve their teaching and evaluation techniques will benefit greatly from this initiative, which not only emphasises interactive learning but also uses technology to build a whole ecosystem for education.

1.2 Gantt chart



[RWDD_gantt_chart.xlsx](#)

1.3 Revision Made

The Project Proposal is further expanded upon in the Preliminary Draft with the addition of greater functionality and extensive visuals. User roles (student, teacher, administrator) and their interactions may be better shown with the use of flowcharts, wireframes, and entity-relationship diagrams. In a thorough data dictionary, concepts like students, instructors, tests, questions, answers, and accomplishments are defined with more detail, along with their properties and connections. Teachers may now take advantage of automatic grading, customisation, and performance monitoring capabilities; students can retake tests for modifications; and administrators can easily manage users and material. Drawing influence from platforms like Quizizz, gamification aspects are described in depth to promote engagement. These features include badges, leaderboards, and awards. Wireframes for desktop, tablet, and mobile views are used to showcase user interface upgrades that are customized for various types of users. To guarantee usability and data safety, non-functional needs are defined, such as secure login systems and device compatibility. When contrasted with the first concept, these changes increase the project's breadth and utility.

2.0 Background analysis

2.1 Web app context

ProMaths is an interactive learning platform tailored to enhance mathematics skills among university and high school students. The platform allows teachers and lecturers to easily create and upload quizzes, providing students with a comprehensive and engaging environment to practice and test their mathematical knowledge. Students able to view their scores after taking the quiz and instant feedback whenever they gave a wrong answer. ProMaths integrates gamification features like badges, leaderboards, and rewards to increase student motivation and engagement, drawing inspiration from popular platforms like Quizizz. Gamification is the process of adding game elements to something in this case education to increase motivation to do it (Handoko et al., 2021). ProMaths will also implemented will a mobile website to ensures that students can access quizzes and learning materials on their smartphones or tablets, enabling flexible learning anytime and anywhere. This responsive design ensures that the platform functions seamlessly across devices, keeping students engaged on the go. In addition, ProMaths offers a feature which allow students to retake the quizzes that have done before as many times they want. This helps to consolidate students' knowledge.

Best practice, trends and challenges

Creating an interactive online quiz website requires adherence to several best practices to ensure effectiveness and user satisfaction. A user-friendly design with a clean, intuitive interface, mobile responsiveness, and accessibility features is essential for a seamless experience (Nielsen, 2021). Incorporating diverse question formats, such as multiple-choice, true/false, and multimedia options, keeps users engaged, while providing immediate feedback enhances learning (Clark & Mayer, 2016). Additionally, implementing gamification features like rewards, leaderboards, and progress tracking motivates users and increases retention rates (Deterding et al., 2011). Security measures, such as encryption and compliance with data protection laws, are crucial to safeguard user data and maintain platform credibility.

Current trends in online quiz platforms include AI-powered personalization, where artificial intelligence adjusts quiz difficulty based on user performance, enhancing engagement and learning outcomes (Hussain et al., 2019). Mobile-first design is increasingly vital as the majority of users access platforms via smartphones, making responsive design and app integration essential (Statista, 2023). Integrating multimedia, such as videos and audio, creates more interactive and immersive experiences, while real-time analytics allow educators to track performance efficiently (Hanus & Fox, 2015). Furthermore, gamification elements like badges, timers, and social sharing features foster participation and competitive engagement, aligning with modern user expectations (Deterding et al., 2011).

Despite these advancements, several challenges persist when building an online quiz platform. Scalability can be an issue, particularly during high-traffic periods, necessitating the use of cloud-based infrastructure for better performance. Ensuring high-quality, error-free content requires significant effort, as poor content can diminish user satisfaction (Clark & Mayer, 2016). Cheating prevention remains a challenge, with solutions such as question randomization, timers, and AI-based proctoring tools helping maintain integrity (Hussain et al., 2019). Additionally, users with limited internet access or older devices may face technical difficulties, emphasizing the need for optimization and offline capabilities (Nielsen, 2021). Finally, data security and privacy concerns require adherence to regulations and implementation of robust security protocols.

2.2 Requirement Gathering

End-User Functional Requirements

Students

1. Students have to register for an account and log in to access the platform.
2. Ability to take quizzes with various question types (multiple choice, subjective exercises).
3. View scores after taking a quiz.
4. Receive instant feedback and explanations when students' answers are wrong.
5. Able to take quizzes repeatedly.

Teacher/Lecturer

1. Teachers/Lecturers have to log in to access their tools and manage quizzes.
2. Able to use tools to create and customize quizzes.
3. Quizzes can be stored and reused.
4. Automated grading for objective questions.
5. Able to view statistics of the student's performance.
6. Notify students to take quizzes.

Administrator

1. Administrators have to log in to manage the platform.
2. Add, remove, and manage user roles and permissions.
3. Modify and remove quizzes if needed.

Non-Functional Requirement

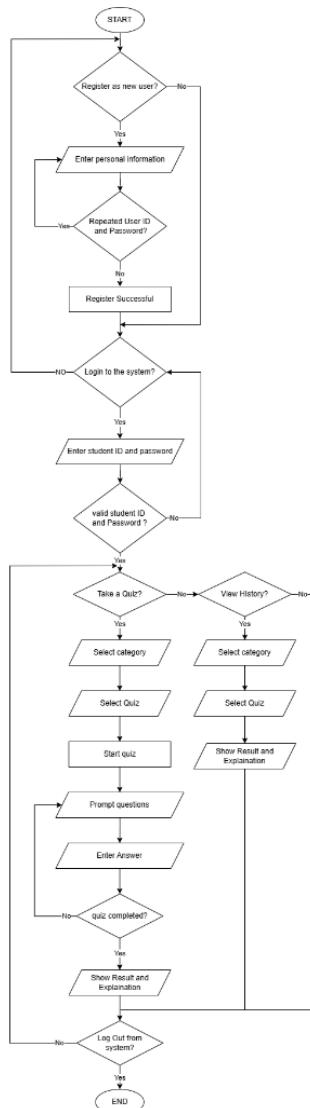
1. The web app should be accessible and functional on various devices, including desktops, tablets, and smartphones, ensuring an excellent user experience for students.
2. Secure login system with role-based access control to protect user data.

3.0 Design

3.1 Flowchart

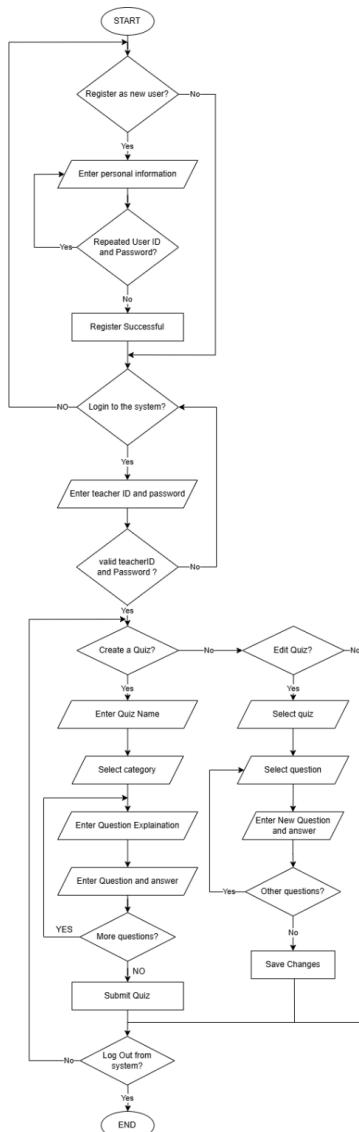
User Role	:	Student
Functionality Name	:	Take Quiz between different category
Group Member in Charge	:	Anderson Tey Le Tian

The flowchart of student take quiz between different categories show the flow from student register a new account until get their result of quizzes. Student who first time using the system need to register an account to get access for quiz, there are various categories of quiz with different difficulty to let student challenge themselves. Student can redo the quiz if they do not satisfy with the result.



User Role : Teacher
 Functionality Name : Create and Edit Quizzes
 Group Member in Charge : Anderson Tey Le Tian

This flowchart shows how teachers create and edit quizzes in the system. Teachers are required to register into the system if they have not used the system before. After they log in as a teacher, they can create a new quiz to test their student. Not only that, they are allowed to edit the quiz they had created if needed.

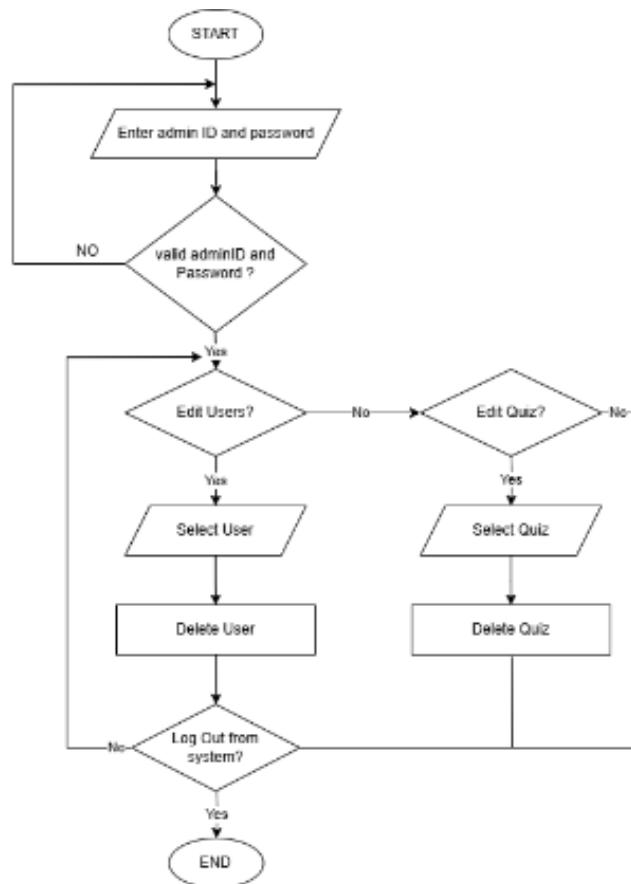


User Role : Administrator

Functionality Name : Manage Users and Quizzes

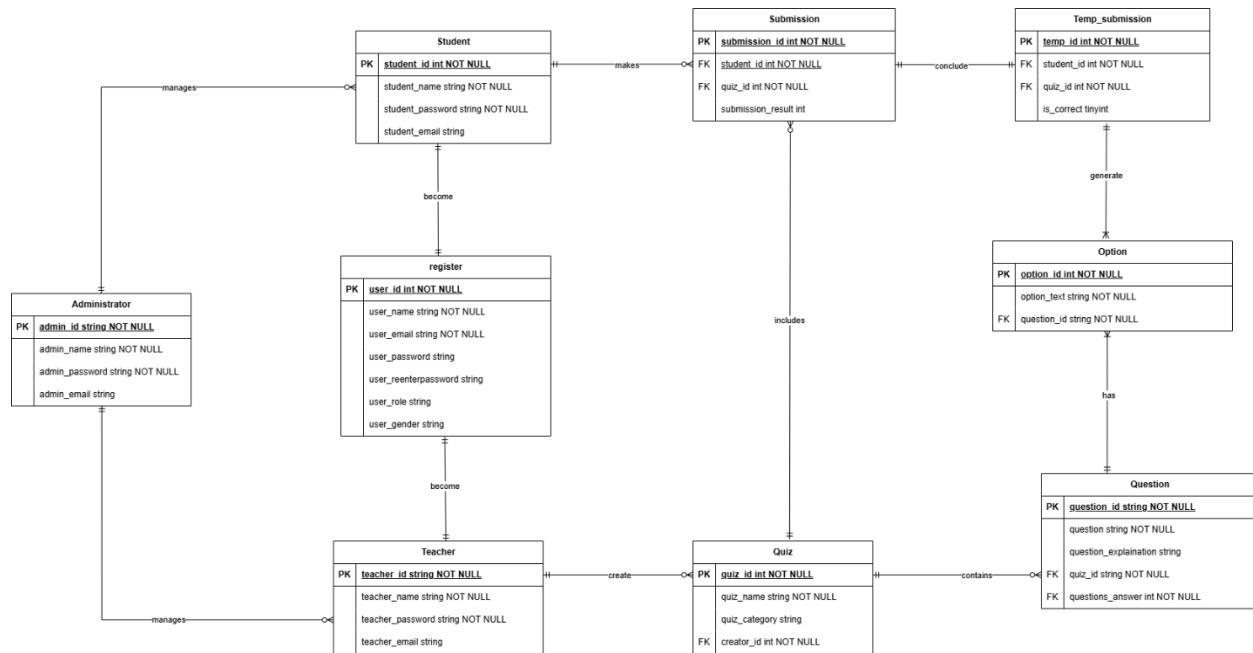
Group Member in Charge : Anderson Tey Le Tian

This flowchart describes how administrators manage users and quizzes of the system. User need to enter the specific id and password to login as administrators, when they become an administrator they can remove unused user detail, and remove outdated quiz to reduce system burden.



3.2 ERD Diagram

The ERD diagram represents a interactive quiz (ProMaths) system where an Administrator manages both Students and Teachers. All users, including Students and Teachers, are registered through the Register table, which serves as a generic user entity. Teachers can create multiple Quizzes, each containing Questions with associated answer Options. Students can attempt quizzes, and their progress is tracked in the Temp_submission table, which records the number of questions a student answers correctly during a quiz attempt before concluding it into a Submission record.



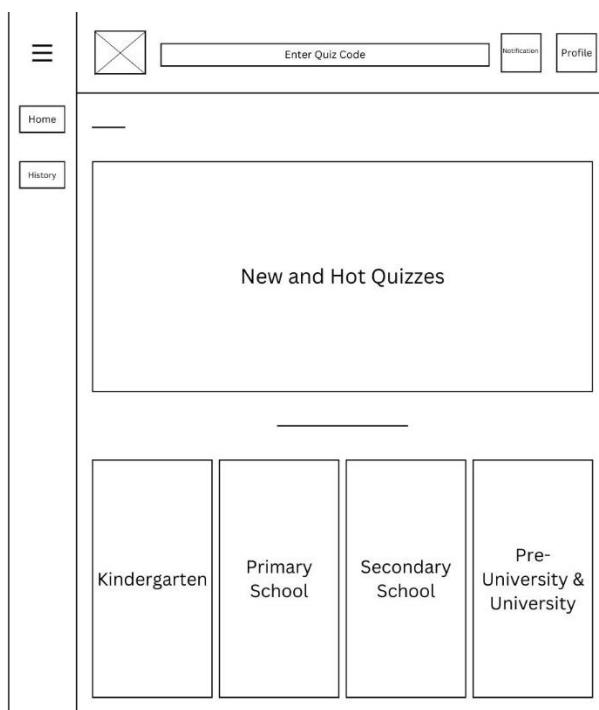
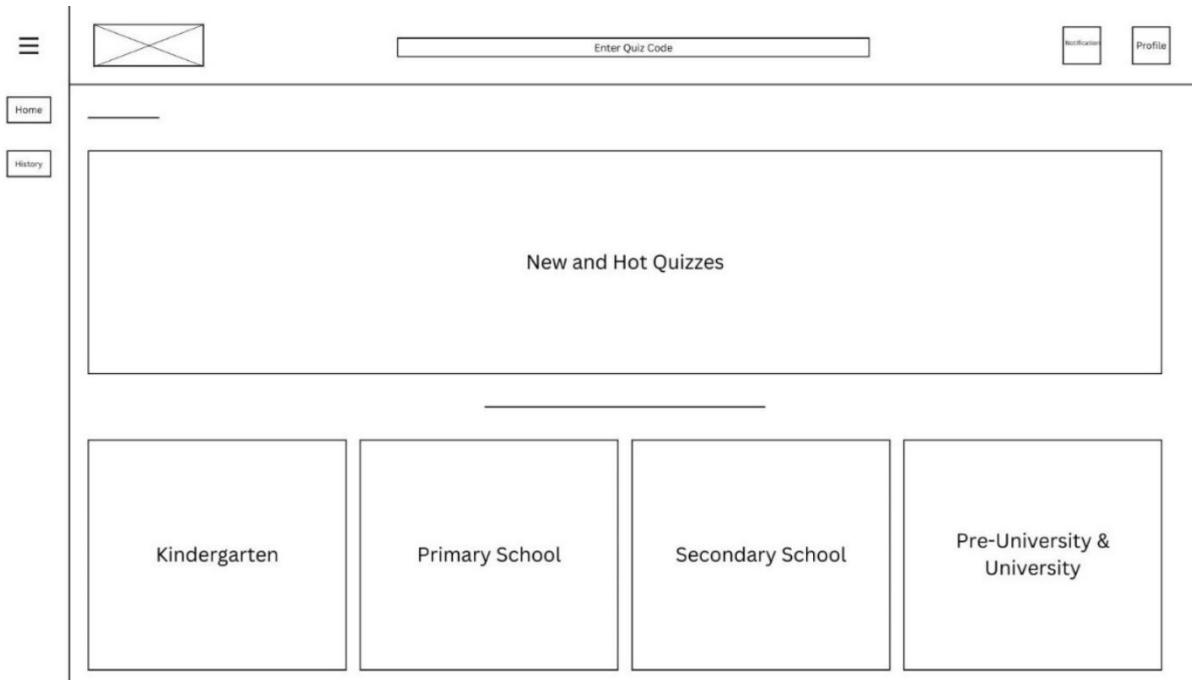
3.3 Data Dictionary

Group Member in Charge	Entity	Attribute	Data Type	Length	Description	Example Input
Chong Wei Jie	register	user_id	int	N/A	Primary key, unique identifier for each student	U0002
		user_name	varchar	255	Username for student login	weijie
		user_email	varchar	255	Email address for the student	weijie123@gmail.com
		user_password	varchar	50	Password for student login	2970mM
		user_reenterpassword	varchar	50	Double confirm the password for student login	2970mM
		user_role	varchar	10	User's role, either student or password	Student
Mah Zheng Yang	quizzes	user_gender	varchar	10	User's gender, either male or female	Male
		quiz_id	int	N/A	Primary key, unique identifier for each quiz	QUI0001
		quiz_name	varchar	255	Name of the quiz	The First Derivative
		quiz_category	varchar	100	Category that can answer this quiz	Secondary School (Form 5)
		creator_id	int	N/A	Foreign Key, references user_id in register	U0001
		temp_id	int	N/A	Primary key, unique identifier for each teacher	T0001
Chek Ka Nic	temp_submission	student_id	int	N/A	Foreign Key, references user_id in register	U0002
		quizzes_fk	int	N/A	Foreign Key, references quiz_id in quizzes	QUI0001
		is_correct	tinyint	N/A	The number of correct questions done by student	4
		option_id	int	N/A	Primary key, unique identifier for each option	OP0001
Anderson Tey Le Tian	options	question_fk	int	N/A	Foreign Key, references question_id in questions	QUE0001
		option_text	varchar	255	The text in the option that can be selected by student	6
		submission_id	int	N/A	Primary key, unique identifier for each submission	SUB0001
Andre Darieus Lim Yann Hunn	submission	quizzes_fk	int	N/A	Foreign Key, references quiz_id in quizzes	QUI0001
		submission_result	int	N/A	The result of the quiz submission done by student	4/5
		student_id	int	N/A	Foreign Key, references user_id in register	U0002
Mah Zheng Yang	questions	question_id	int	N/A	Primary key, unique identifier for each question	QUE0001
		quizzes_fk	int	N/A	Foreign Key, references quiz_id in quizzes	QUI0001
		question	varchar	255	The text of the question	Find the first derivative of $6x+1$ with respect to x.
		question_explanation	varchar	255	The explanation if the answer selected by student is wrong	The derivative of a constant term (like 1) is 0, and the derivative of $6x$ is just the coefficient 6, because the rate of change of x with respect to itself
		question_answer	int	N/A	Answer of the question	6

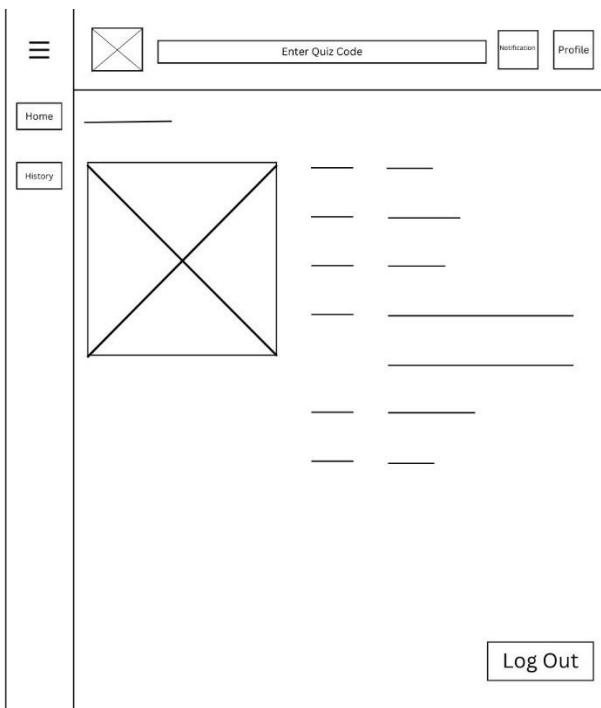
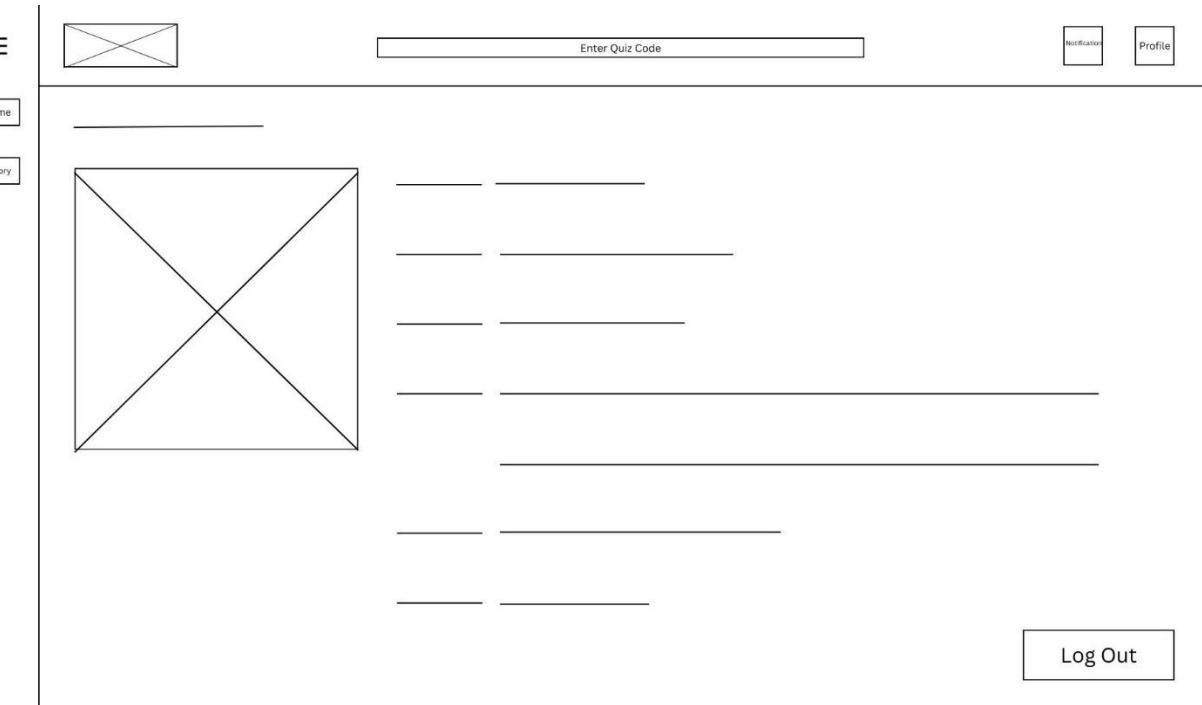
3.4 Wireframe

Student (Webpage and Mobile Design)

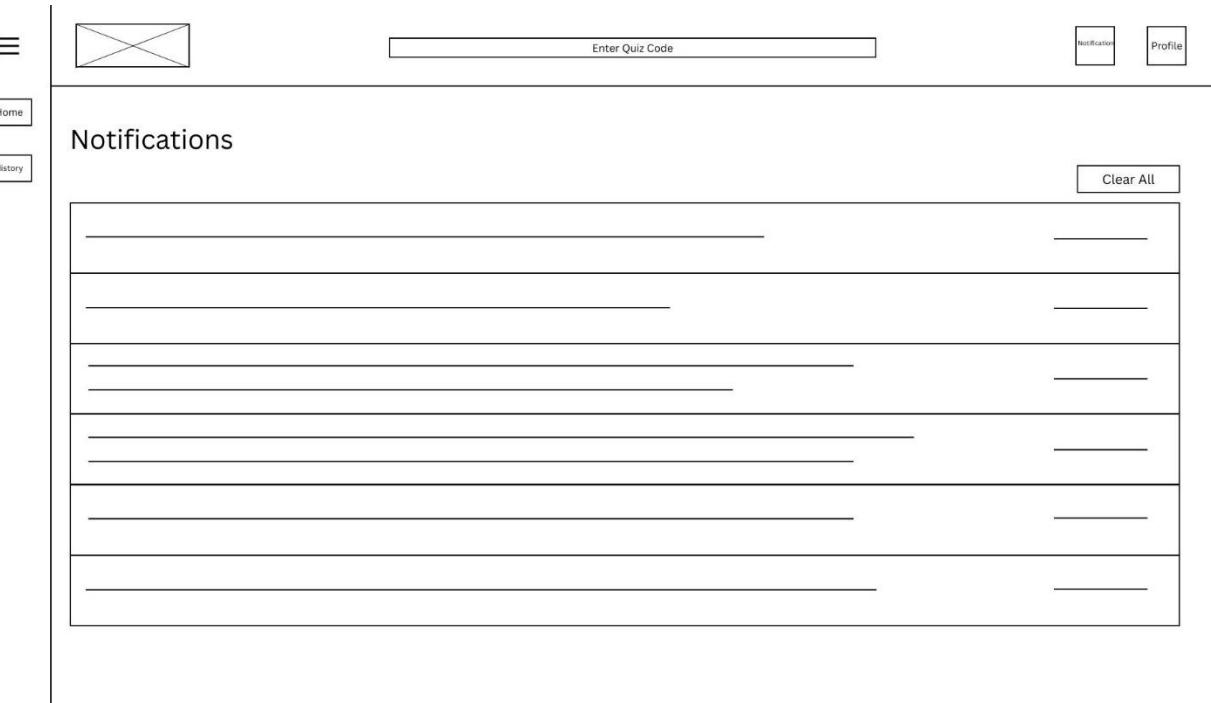
Main Page



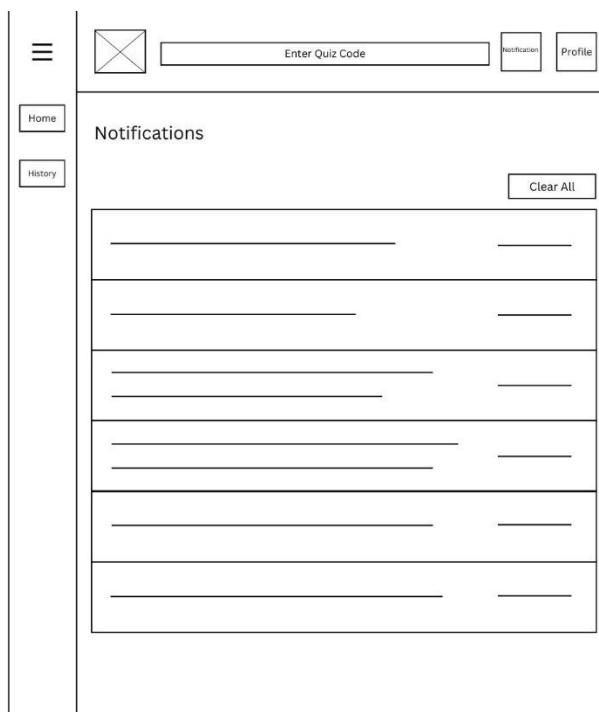
Profile Page



Notifications Page

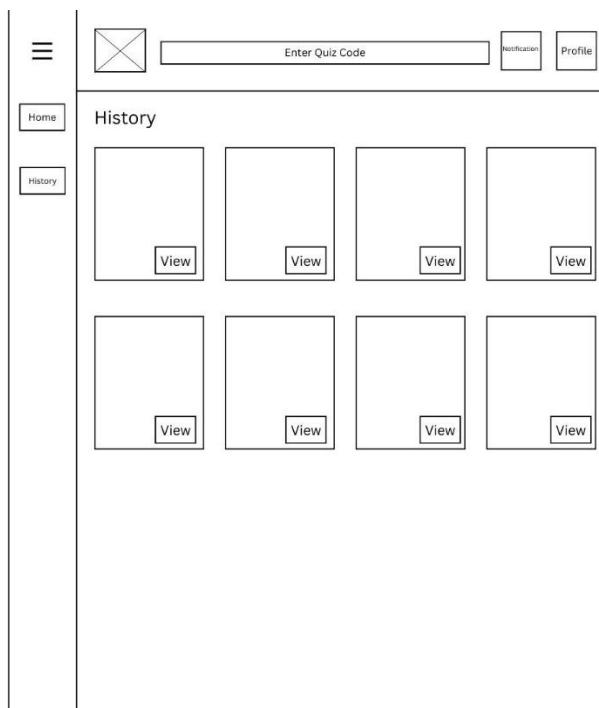
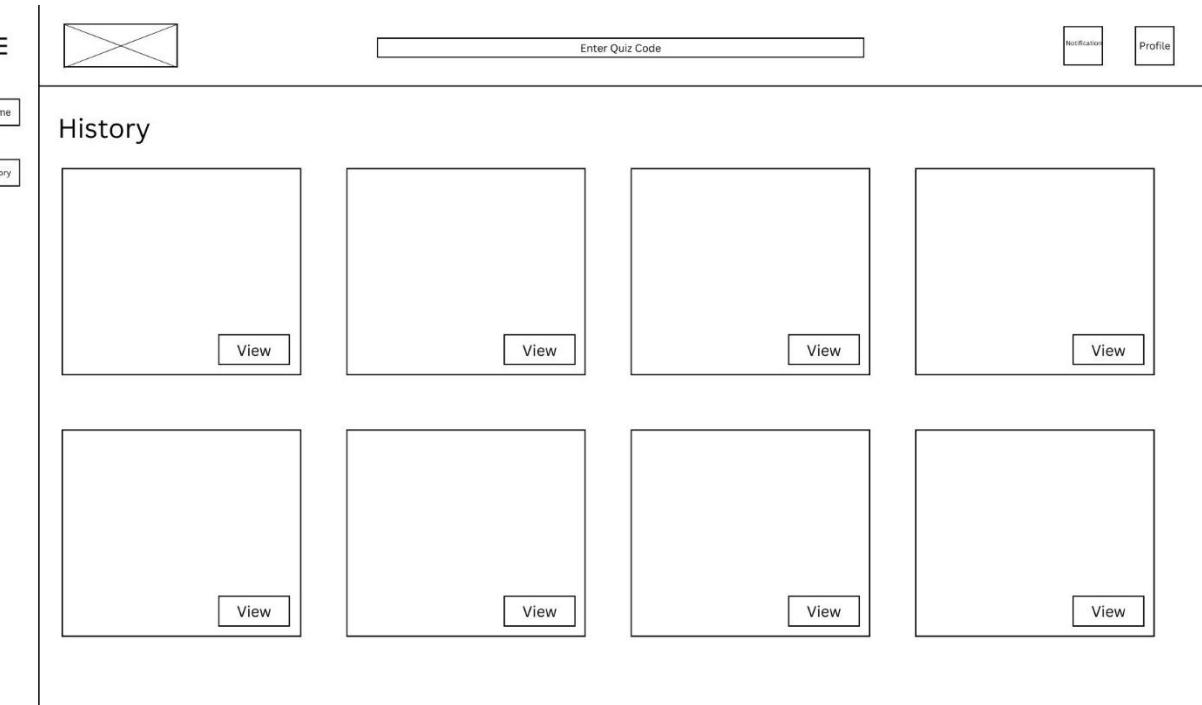


A wireframe diagram of a web page titled "Notifications Page". The page features a sidebar on the left with three buttons: "Home", "History", and a menu icon (three horizontal lines). The main content area includes a logo (a square with an X), a search bar ("Enter Quiz Code"), and two buttons: "Notification" and "Profile". Below this, a section titled "Notifications" contains a "Clear All" button and a large list area consisting of eight horizontal lines.

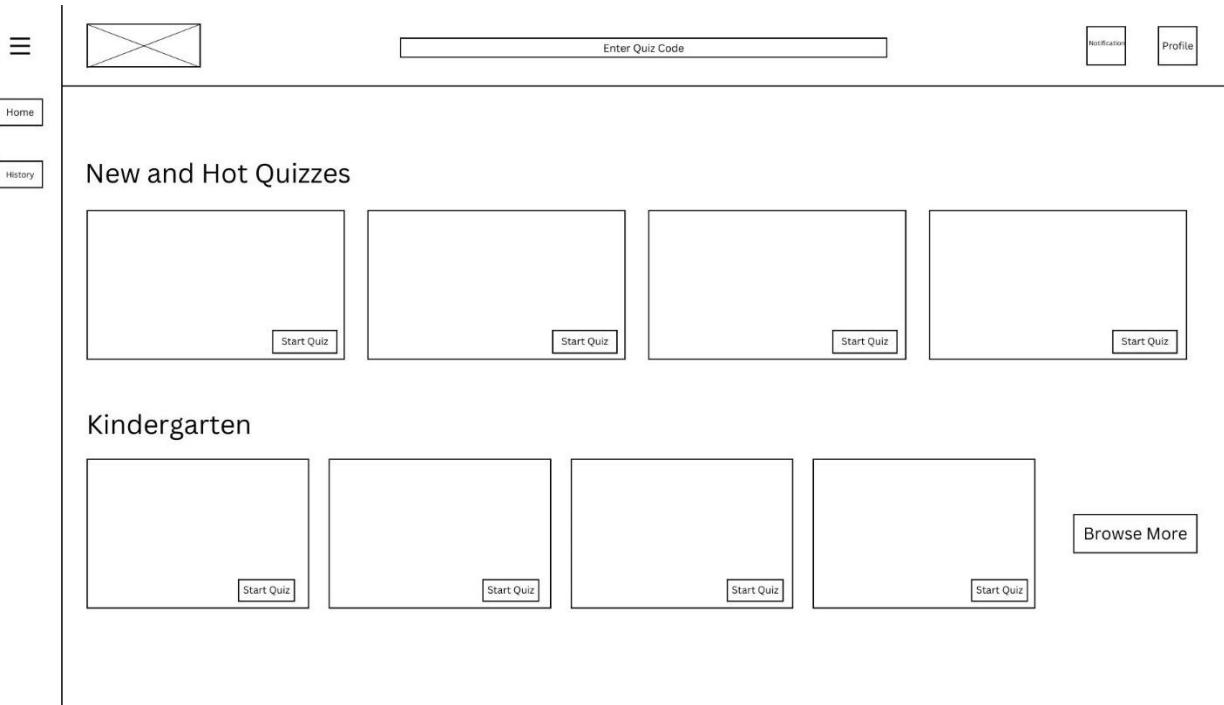


A detailed wireframe diagram of the same "Notifications Page" as the first one. It includes all the visual elements: the sidebar with "Home" and "History" buttons, the header with the logo, search bar, and buttons, the "Notifications" section title, and the "Clear All" button. The list area is also detailed with eight horizontal lines.

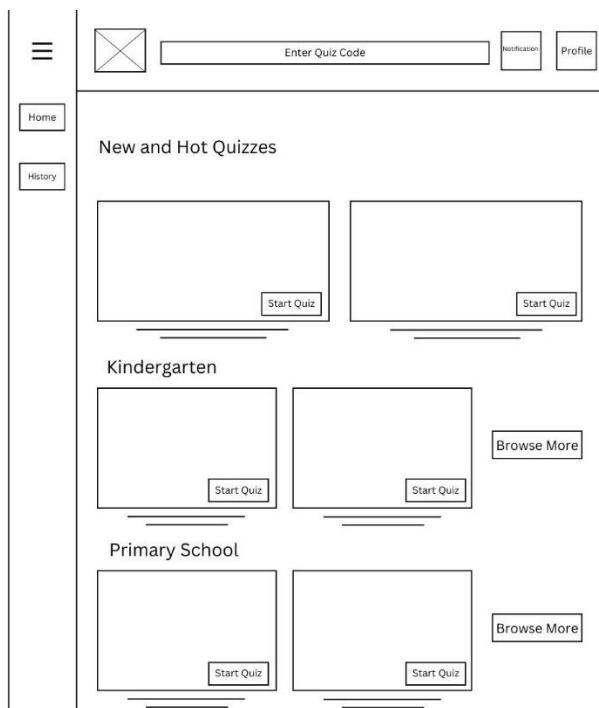
History Page



New and Hot Quizzes Page



The wireframe shows a mobile application interface. At the top left is a menu icon (three horizontal lines). To its right is a logo icon (a square with an 'X'). Next is a search bar labeled "Enter Quiz Code". On the far right are "Notification" and "Profile" buttons. A vertical sidebar on the left contains "Home" and "History" buttons. The main content area is titled "New and Hot Quizzes" and displays four quiz cards, each with a "Start Quiz" button at the bottom. Below this section is a title "Kindergarten" followed by four more quiz cards with "Start Quiz" buttons. A "Browse More" button is located to the right of the Kindergarten cards.



This detailed wireframe shows the same layout as the first one but includes horizontal lines below each row of cards to indicate they are scrollable. The "Start Quiz" buttons are also enclosed in small rectangular boxes.

Kindergarten Category Page

This wireframe illustrates the layout of a Kindergarten category page. On the left side, there is a vertical sidebar containing a menu icon (three horizontal lines), a 'Home' button, and a 'History' button. The main content area is titled 'Kindergarten'. Below the title, there are four large rectangular boxes representing age groups: '3 Years Old', '4 Years Old', '5 Years Old', and '6 Years Old'. Each box is a separate column within a larger container.

This wireframe provides a more detailed view of the Kindergarten category page. It includes a header bar with a logo (a square with an 'X'), an 'Enter Quiz Code' input field, and 'Notification' and 'Profile' buttons. The sidebar remains the same with 'Home' and 'History' buttons. The main content area is titled 'Kindergarten' and contains four age group boxes labeled '3 Years Old', '4 Years Old', '5 Years Old', and '6 Years Old'. The overall structure is identical to the first wireframe but with additional UI components.

Primary School Category Page

A wireframe diagram of a web page. On the left is a vertical sidebar with three buttons: 'Home' (selected), 'History', and a menu icon (three horizontal lines). At the top right are four buttons: a logo (crossed squares), an input field labeled 'Enter Quiz Code', and 'Notification' and 'Profile' buttons. The main content area is titled 'Primary School' and contains a grid of six empty rectangular boxes. Below each box is its corresponding grade name: First Grade, Second Grade, Third Grade, Forth Grade, Fifth Grade, and Sixth Grade.

A wireframe diagram of a web page, identical in structure to the one above it. It features a sidebar with 'Home' selected, a top navigation bar with a logo, an input field for 'Enter Quiz Code', and 'Notification' and 'Profile' buttons. The main content area is titled 'Primary School' and displays a grid of six empty boxes, each labeled with a grade: First Grade, Second Grade, Third Grade, Forth Grade, Fifth Grade, and Sixth Grade.

Secondary School Category

This wireframe illustrates a mobile application interface for a secondary school category. The top navigation bar includes a menu icon (three horizontal lines), a logo (a square with an 'X' inside), a search bar labeled "Enter Quiz Code", and two buttons for "Notification" and "Profile". On the left side, there is a vertical sidebar with "Home" and "History" buttons. The main content area is titled "Secondary School" and contains five rectangular boxes labeled "Form 1", "Form 2", "Form 3", "Form 4", and "Form 5".

This wireframe shows a similar mobile application interface for a secondary school category. It features a top navigation bar with a menu icon, a logo, a search bar, and "Notification" and "Profile" buttons. The vertical sidebar on the left has "Home" and "History" buttons. The main content area is titled "Secondary School" and displays five rectangular boxes labeled "Form 1", "Form 2", "Form 3", "Form 4", and "Form 5".

Pre-University & University Page

Enter Quiz Code

Home

History

Pre-University & University

A-Level / Foundation / Diploma / SPM	Degree	Master	PhD
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Enter Quiz Code

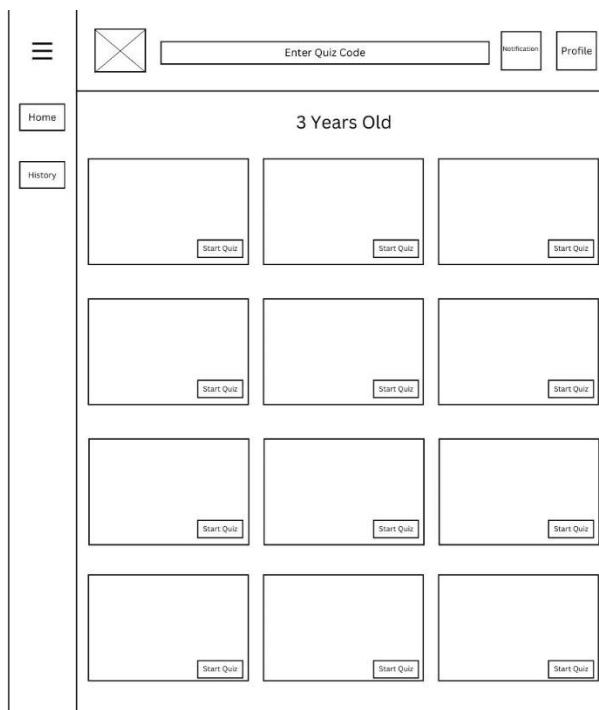
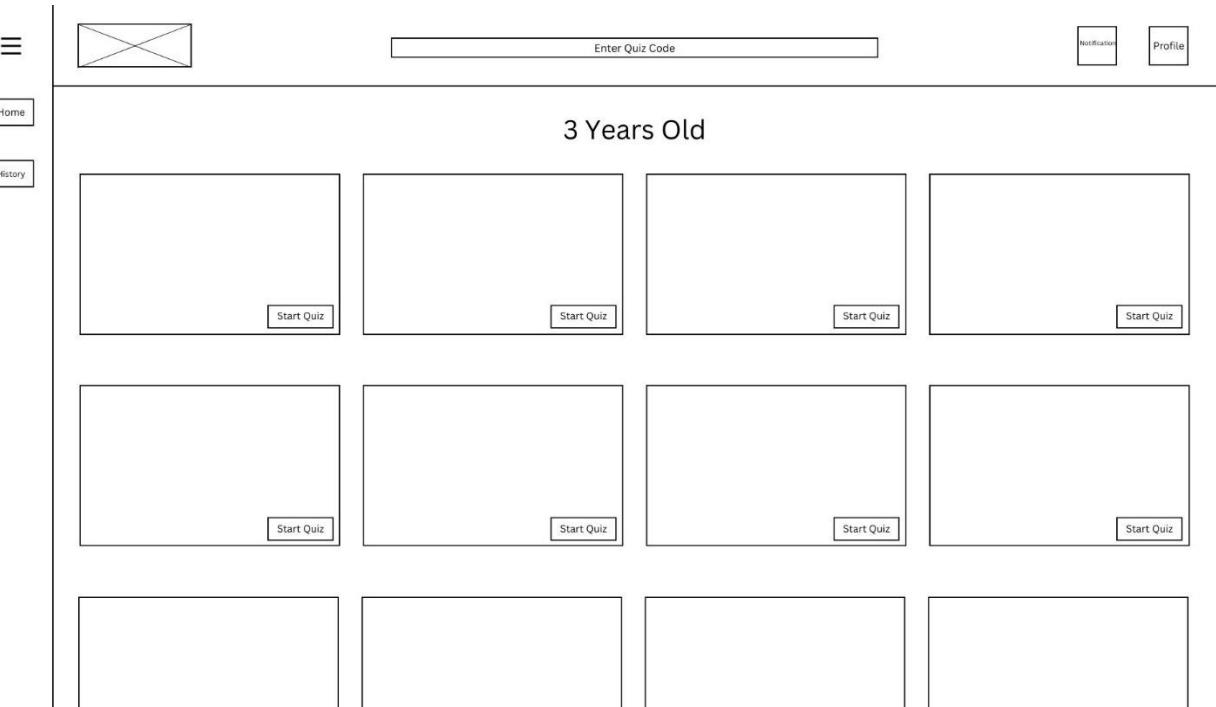
Home

History

Pre-University & University

A-Level / Foundation / Diploma / SPM	Degree	Master	PhD
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3 Years Old Quizzes Page (All categories has the same design)



Quiz Page

Result Page

/5

Done

/5

Done

Log In Page

Log In

Username

Password

Log In **Register**

Forgot password? Click [here](#) to reset your password.

Log In

Username

Password

Log In **Register**

Forgot password? Click [here](#) to reset your password.

Register Page

[Back](#)

Register

Username

Email

Gender

Male Female

Role

Student Teacher

Password

Re-enter Password

Register

[Back](#)

Register

Username

Email

Gender

Male Female

Role

Student Teacher

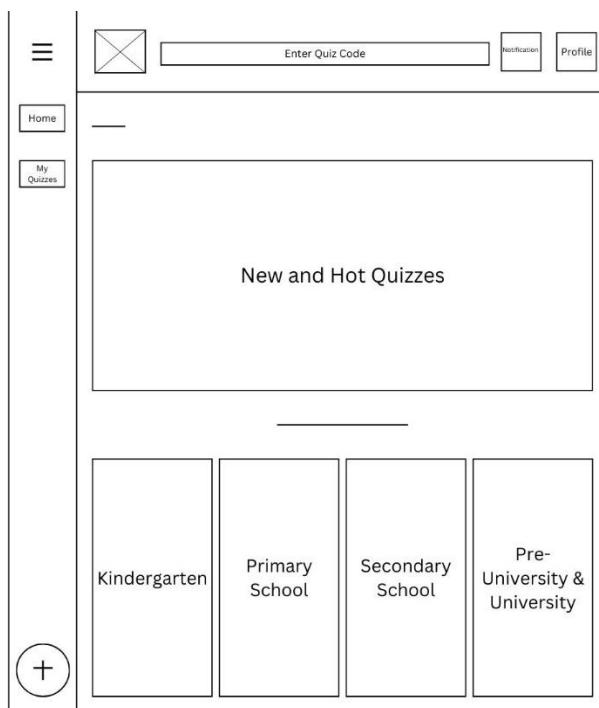
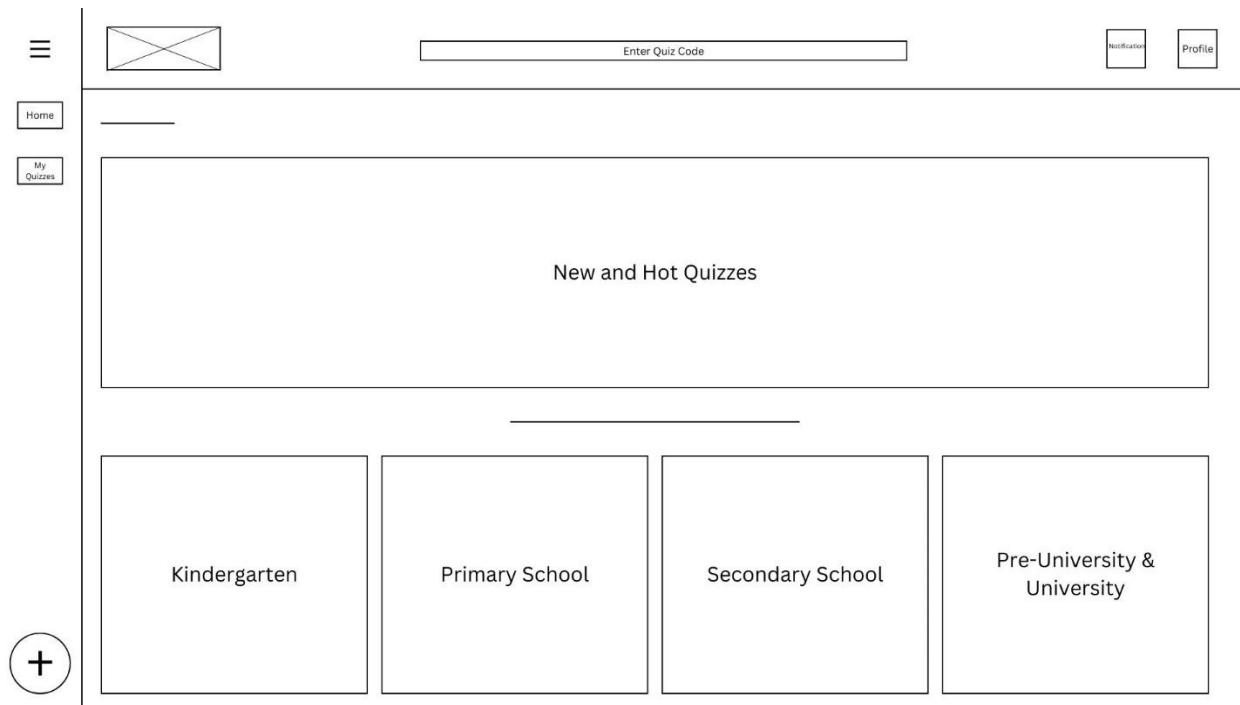
Password

Re-enter Password

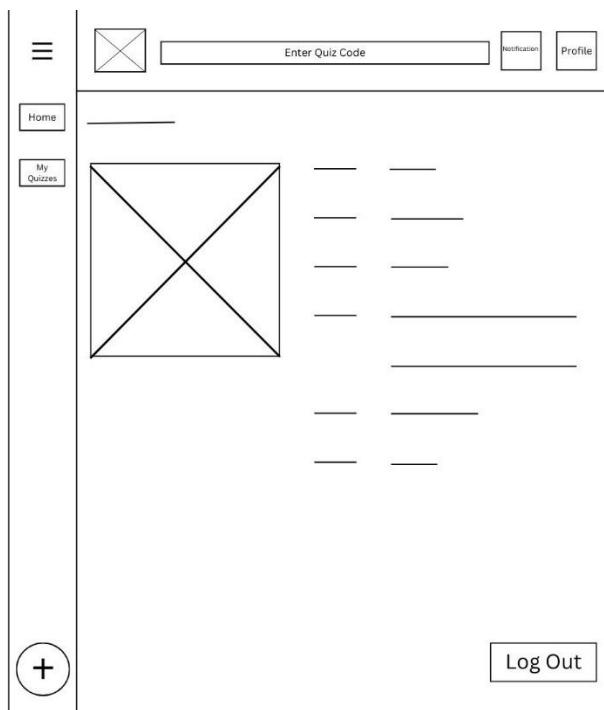
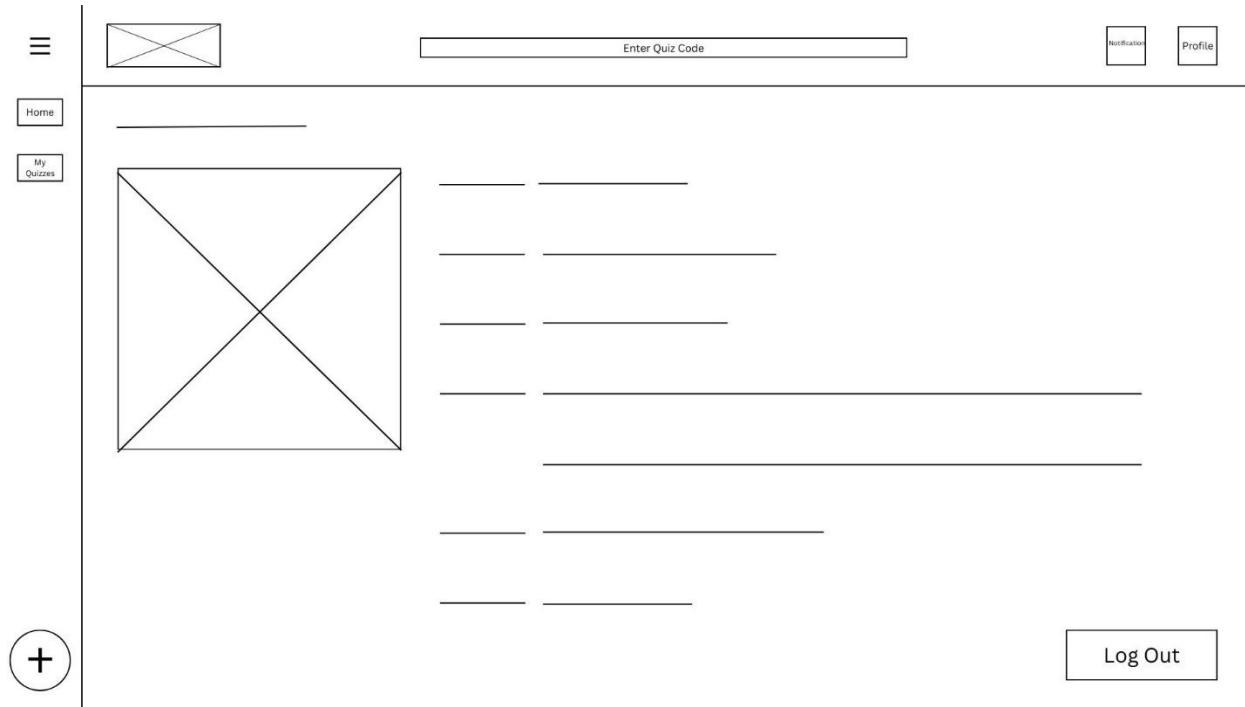
Register

Teacher (Webpage)

Main Page



Profile Page



My Quizzes Page

This wireframe shows the 'My Quizzes' page. On the left is a vertical sidebar with a menu icon (three horizontal lines), a mail icon, a 'Home' button, a 'My Quizzes' button, and a large circular button with a plus sign. The main area has a header with an 'Enter Quiz Code' input field, a 'Notification' button, and a 'Profile' button. Below the header is a section titled 'My Quizzes' containing three rows of four quiz cards each. Each card has an 'Edit' button at the bottom right.

This wireframe shows the 'My Quizzes' page with a different layout. It features a vertical sidebar on the left with a menu icon, a mail icon, a 'Home' button, a 'My Quizzes' button, and a circular button with a plus sign. The main content area includes a header with an 'Enter Quiz Code' input field, a 'Notification' button, and a 'Profile' button. The 'My Quizzes' section contains three rows of four quiz cards. Unlike the first wireframe, the cards in this version are taller and have an 'Edit' button positioned at the bottom center of each card.

Notifications Page

A wireframe diagram of a user interface for a notifications page. On the left is a vertical sidebar with a menu icon (three horizontal lines) at the top, followed by 'Home' and 'My Quizzes' buttons, and a large circular button with a plus sign at the bottom. The main content area has a header with a logo (a square with an X), a search bar ('Enter Quiz Code'), and 'Notification' and 'Profile' buttons. Below the header is a section titled 'Notifications' with a 'Clear All' button. The central part of the page contains a large rectangular area with eight horizontal lines, likely representing notification items.

A detailed wireframe of the same notifications page, showing more specific UI elements. The sidebar includes a 'Home' button and a 'My Quizzes' button. The main content area features a header with a logo, a search bar ('Enter Quiz Code'), and 'Notification' and 'Profile' buttons. A 'Clear All' button is located next to the 'Notifications' section title. The central area displays a list of notifications with eight horizontal lines, each accompanied by a small circular button with a plus sign at the bottom right.

New and Hot Quizzes Page

This wireframe shows the layout of the 'New and Hot Quizzes' page. On the left is a vertical sidebar with a menu icon (three horizontal lines) at the top, followed by 'Home' and 'My Quizzes' buttons. A large circular button with a plus sign is located at the bottom left. The main content area features a header with a logo, an 'Enter Quiz Code' input field, and 'Notification' and 'Profile' buttons. Below this is a section titled 'New and Hot Quizzes' containing four empty boxes. Underneath is a section titled 'Kindergarten' containing four empty boxes, with a 'Browse More' button to the right. At the bottom of the sidebar is a large circular button with a plus sign.

This wireframe shows the 'New and Hot Quizzes' page with additional sections. It includes the same sidebar and header as the first wireframe. The main content area now has three distinct sections: 'New and Hot Quizzes' (two boxes), 'Kindergarten' (two boxes with a 'Browse More' button), and 'Primary School' (two boxes with a 'Browse More' button). The large circular button with a plus sign is located at the bottom left of the sidebar.

Kindergarten Category Page

This wireframe illustrates the layout of a Kindergarten category page. On the left side, there is a vertical sidebar containing a menu icon (three horizontal lines), a logo (a square with an 'X' inside), a search bar labeled "Enter Quiz Code", and two buttons for "Notification" and "Profile". Below these are three navigation links: "Home", "My Quizzes", and a large circular button with a plus sign. The main content area is titled "Kindergarten" and features a grid of four boxes representing different age groups: "3 Years Old", "4 Years Old", "5 Years Old", and "6 Years Old".

This detailed wireframe provides a clearer view of the Kindergarten category page's design. It includes rounded corners and shadows on the sidebar and main content area. The sidebar elements are identical to the first wireframe. The main content area is also identical, featuring the "Kindergarten" title and the four age group boxes. The overall layout is clean and modern.

Primary School Categories Page

This wireframe diagram illustrates the layout of a primary school categories page. On the left side, there is a vertical sidebar with a menu icon (three horizontal lines) at the top, followed by 'Home' and 'My Quizzes' buttons. A large circular button with a plus sign is located below these. The main content area features a header 'Primary School' centered above a grid of six rectangular boxes. Each box contains the name of a grade: 'First Grade', 'Second Grade', 'Third Grade', 'Forth Grade', 'Fifth Grade', and 'Sixth Grade'. The entire grid is enclosed in a thin border.

This wireframe diagram illustrates the layout of a primary school categories page. It has a similar structure to the first one, with a vertical sidebar on the left containing a menu icon, 'Home' and 'My Quizzes' buttons, and a plus sign button. The main content area includes a header 'Primary School' and a grid of six categories labeled 'First Grade', 'Second Grade', 'Third Grade', 'Forth Grade', 'Fifth Grade', and 'Sixth Grade'. The layout is identical to the first wireframe, except for the different labeling of the categories.

Secondary School Category Page

This wireframe illustrates the layout of a Secondary School Category Page. On the left side, there is a vertical sidebar containing a menu icon (three horizontal lines), a logo icon (a square with an 'X' inside), a 'Home' button, a 'My Quizzes' button, and a large circular button with a plus sign (+). The main content area features a header titled 'Secondary School'. Below the header is a grid divided into five equal-width columns, each labeled 'Form 1', 'Form 2', 'Form 3', 'Form 4', and 'Form 5' respectively.

This wireframe illustrates the layout of a Secondary School Category Page. It has a similar structure to the first one, featuring a sidebar on the left with a menu icon, a logo icon, a 'Home' button, a 'My Quizzes' button, and a circular button with a plus sign (+). The main content area includes a header titled 'Secondary School' and a grid with five columns labeled 'Form 1' through 'Form 5'. The layout is identical to the first wireframe, indicating no changes between the two versions.

Pre-University & University Category Page

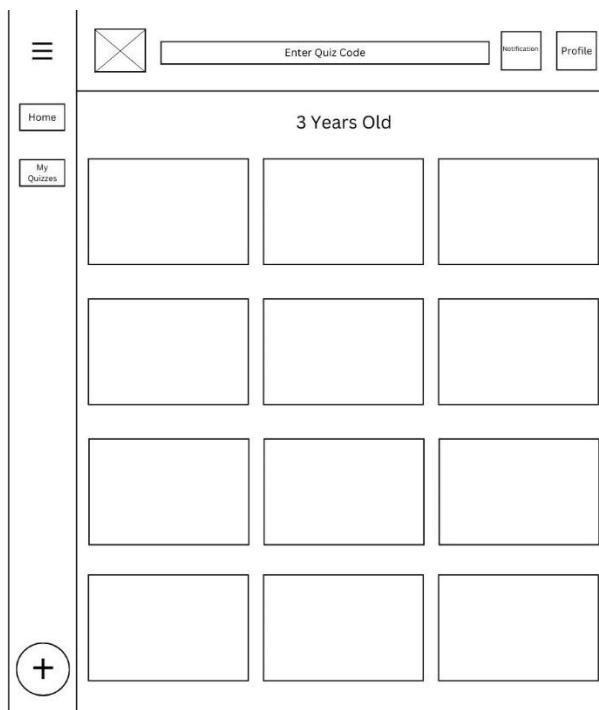
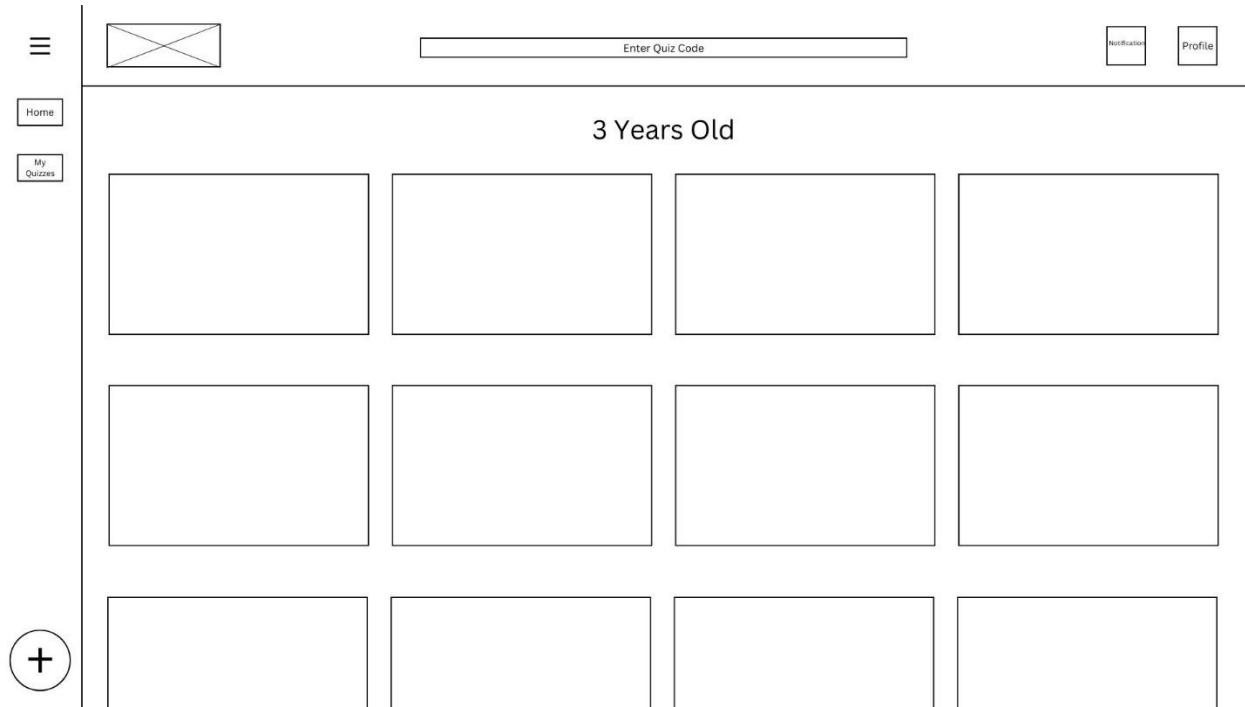
This wireframe illustrates the layout of a category page for Pre-University & University content. The page features a sidebar on the left with navigation links for Home and My Quizzes, and a large '+' button. At the top right are buttons for Enter Quiz Code, Notification, and Profile. The main content area is titled 'Pre-University & University' and contains a 4x1 grid of categories: A-Level / Foundation / Diploma / STPM, Degree, Master, and PhD.

A-Level / Foundation / Diploma / STPM	Degree	Master	PhD
--	--------	--------	-----

This wireframe illustrates the layout of a category page for Pre-University & University content. The page features a sidebar on the left with navigation links for Home and My Quizzes, and a large '+' button. At the top right are buttons for Enter Quiz Code, Notification, and Profile. The main content area is titled 'Pre-University & University' and contains a 4x1 grid of categories: A-Level / Foundation / Diploma / STPM, Degree, Master, and PhD. The 'A-Level / Foundation / Diploma / STPM' category is highlighted with a vertical line on its left side.

A-Level / Foundation / Diploma / STPM	Degree	Master	PhD
--	--------	--------	-----

3 Years Old Category Page (All categories has the same design)



Create Quiz Page

Enter Explanation	
Enter Quiz Name	
Select Category	
<input type="radio"/>	Enter Options
Next Question	

Enter Explanation	
Enter Quiz Name	
Select Category	
<input type="radio"/>	Enter Options
Next Question	

Admin Page

[View All Users](#)

[View All Quizzes](#)

[Log Out](#)

[View All Users](#)

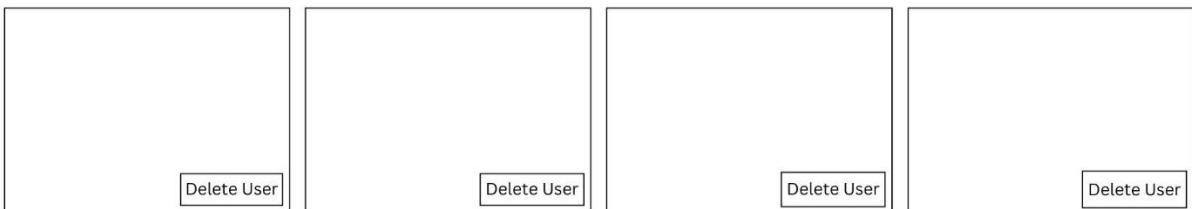
[View All Quizzes](#)

[Log Out](#)

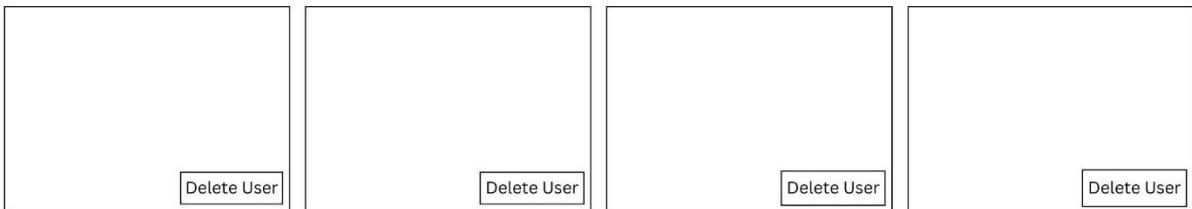
View All Users Page

[Back](#)

Students

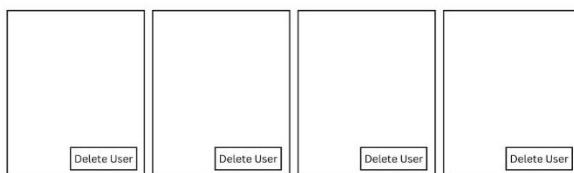


Teachers

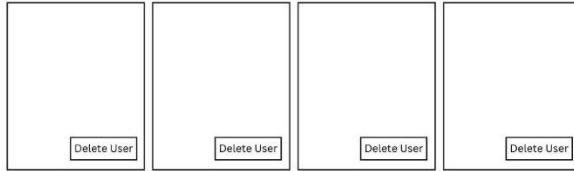


[Back](#)

Students



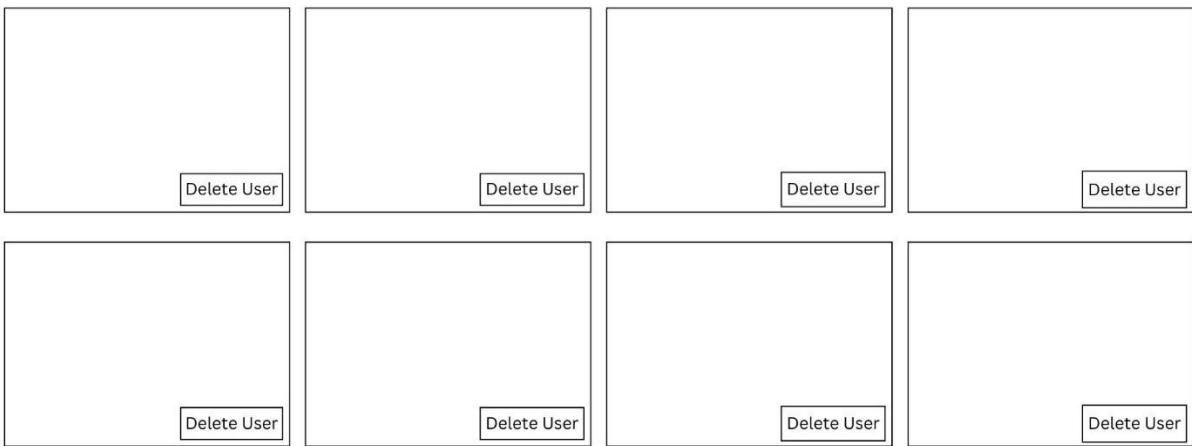
Teachers



View All Users Page

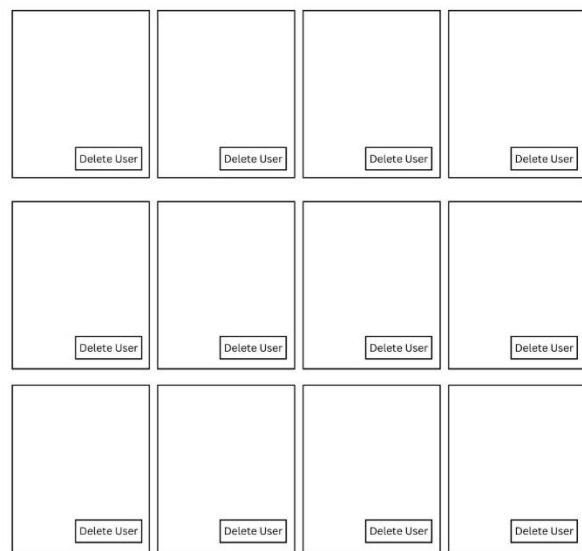
[Back](#)

Quizzes



[Back](#)

Quizzes



4.0 Implementation

4.1 Chong Wei Jie (TP076546)

loginPage.php

```
<body>
  <div class="container">
    <h1>Log In</h1>
    <form method="post" action="#">
      Username<br>
      <input type="text" name="user_name" placeholder="Enter Your Username" required><br>
      Password<br>
      <input type="password" name="user_password" placeholder="Enter Your Password" required><br>
      <div class="button-container">
        <button type="submit" name="submitBtn">Log In</button>
        <button onclick="window.location.href='registerPage.php'">Register</button>
      </div>
      <div class="forgot-password">
        Forgot password? Click <a href="resetPasswordPage.php">here</a> to reset your password.
      </div>
    </form>
  </div>
```

This part of coding is to provide user text fields to input their username and password. The button “submit” will submit the username and password to the database. If the entered username and password are matched with the database’s data, the user can successfully log in and go to the main page. If user clicks “Forget Password”, he will go to resetPasswordPage.php page.

```

<?php
session_start();
if (isset($_POST['submitBtn'])) {
    include("conn.php"); // Ensure this connects to your database

    $username = mysqli_real_escape_string($con, $_POST['user_name']);
    $password = $_POST['user_password'];

    if ($username === "admin" & $password === "123"){
        session_start();
        $_SESSION['userid'] = "admin";

        header("Location: adminPage.php");
    }

    // Query to fetch user data
    $sql = "SELECT * FROM register WHERE user_name = '$username'";
    $result = mysqli_query($con, $sql);

    if (mysqli_num_rows($result) > 0) {
        $row = mysqli_fetch_assoc($result);
        $stored_password = $row['user_password'];
        $user_id = $row['userid'];
        $role = $row['user_role'];

        if ($password === $stored_password) {
            session_start();
            $_SESSION['userid'] = $user_id;
            echo '<script>alert("Login successful!"); window.location.href = "mainPage.php";</script>';

        } else {
            echo '<script>alert("Incorrect password! Please try again.");</script>';
        }
    } else {
        echo '<script>alert("Username not found! Please register.");</script>';
    }

    mysqli_close($con);
}
?>

```

If the entered username is admin and password is 123, the user is an admin and the website will go to adminPage.php page. Then, the database will verify if the entered username and password is correct. If they are correct, then “Login successful!” message will be shown and it will go to the main page. If the password is incorrect, it will show “Incorrect password! Please try again.” If the username does not exist in the database, “Username not found! Please register.”

registerPage.php

```
<body>
  <button class="back-btn" onclick="window.location.href='loginPage.php'">
    | Back
  </button>
  <div class="container">
    <h1>Register</h1>
    <form method="post" action="#">
      Username<br>
      <input type="text" name="user_name" placeholder="Enter Your Username" required><br>
      Email Address<br>
      <input type="email" name="user_email" placeholder="Enter Your Email" required><br>
      Gender<br>
      <input type="radio" name="user_gender" value="Male" required>Male
      <input type="radio" name="user_gender" value="Female">Female<br>
      Role<br>
      <input type="radio" name="user_role" value="Student" required>Student
      <input type="radio" name="user_role" value="Teacher">Teacher<br>
      Password<br>
      <input type="password" name="user_password" placeholder="Enter Your Password" required><br>
      Re-enter Password<br>
      <input type="password" name="user_reenterpassword" placeholder="Re-enter Your Password" required><br>
      <div class="button-container">
        | <button type="submit" name="submitBtn">Register</button>
      </div>
    </form>
  </div>
```

If the “Back” button is clicked, the website will go to the log in page. Then, the user can type their username, email address, gender, role, password and confirmed password at the text fields to register. The information will be stored at the database after “Submit” button is clicked.

```

<?php
if (isset($_POST['submitBtn'])) {
    include("conn.php");

    $sqlCheck = "SELECT * FROM register WHERE user_name = '$_POST[user_name]'";
    $resultCheck = mysqli_query($con, $sqlCheck);

    if (mysqli_num_rows($resultCheck) > 0) {
        echo '<script>alert("Username already taken. Please choose another one."); window.location.href = "registerPage.php"; </script>';
        exit;
    }

    $sqlCheckEmail = "SELECT * FROM register WHERE user_email = '$_POST[user_email]'";
    $resultCheckEmail = mysqli_query($con, $sqlCheckEmail);

    if (mysqli_num_rows($resultCheckEmail) > 0) {
        echo '<script>alert("Email already registered. Please use another email."); window.location.href = "registerPage.php"; </script>';
        exit;
    }

    if ($_POST['user_password'] !== $_POST['user_reenterpassword']) {
        echo '<script>alert("Password does not match"); window.location.href = "registerPage.php"; </script>';
    } else {
        $sql = "INSERT INTO register (user_name, user_email, user_password, user_reenterpassword, user_role, user_gender)
                VALUES ('$_POST[user_name]', '$_POST[user_email]', '$_POST[user_password]', '$_POST[user_reenterpassword]', '$_POST[user_role]', '$_POST[user_gender]')";
        if (!mysqli_query($con, $sql)) {
            die('Error: ' . mysqli_error($con));
        } else {
            echo '<script>alert("Registered Successfully"); window.location.href = "loginPage.php"; </script>';
        }
    }
}

mysqli_close($con);
}

```

This part of coding is to add entered data into the database. If the entered username and email address already exist in the database, the system will tell the user and the user needs to reenter. If the entered password and the reentered password are not the same, the website will tell the user and he needs to enter the same one. When all the data is successfully input and stored in the database, the system will show “Registered Successfully” and it will go to the login page.

resetPasswordPage.php

```
<div class="container">
  <h1>Reset Password</h1>
  <form method="post" action="#">
    Email<br>
    <input type="email" name="user_email" placeholder="Enter Your Email" required><br>
    New Password<br>
    <input type="password" name="user_password" placeholder="Enter Your New Password" required><br>
    Re-enter New Password<br>
    <input type="password" name="user_reenterpassword" placeholder="Re-enter Your New Password" required><br>
    <div class="button-container">
      <button type="submit" name="submitBtn">Reset</button>
    </div>
  </form>
</div>
```

This part of coding provides user text fields to enter their email address, new password and confirm password. When “Reset” button is clicked, the information will be updated to the database.

```
<?php
if (isset($_POST['submitBtn'])) {
  include("conn.php"); // Connect to the database

  $email = $_POST['user_email'];
  $password = $_POST['user_password'];
  $reenterPassword = $_POST['user_reenterpassword'];

  // Check if the passwords match
  if ($password !== $reenterPassword) {
    echo '<script>alert("Passwords do not match!"); window.location.href = "loginPage.php"; </script>';
  } else {
    // Update the password for the matching email
    $sql = "UPDATE register SET user_password = '$password', user_reenterpassword = '$reenterPassword' WHERE user_email = '$email'";
    if (mysqli_query($con, $sql)) {
      echo '<script>alert("Password reset successfully!"); window.location.href = "loginPage.php"; </script>';
    } else {
      echo "Error: " . mysqli_error($con);
    }
  }
}

mysqli_close($con); // Close the connection
?>
```

If the input email address matches with the database’s data, and the entered password and confirmed password are the same, the database’s data will be updated and “Password reset successfully” message will be shown. Then, the user will go to log in page.

session.php

```
<?php
    session_start();
    if (!isset($_SESSION['user_id'])) {
        echo "<script>alert('Please login!');window.location.href='loginPage.php';</script>";
        exit();
    }
?>
```

This part of coding is to make sure user has already logged in their account before they use the website's function. If the user tries to change the url to go to certain page without login, the website will show "Please login" and bring user to log in page.

conn.php

```
<?php
    $con = mysqli_connect("localhost","root","","userDetails");
?>
```

This part of coding is used to connect the website to the database.

4.2 Mah Zheng Yang (TP076666)

add-quizzes.php

```
<form action="#" method="POST">
    <label>Quiz Name</label>
    <input type="text" name="quiz_name" required>

    <label for="quiz_category">Category</label>
    <select name="quiz_category" required>
        <option value="" disabled selected>Select a category</option>
        <option value="K3">Kindergarten (3 Years Old)</option>
        <option value="K4">Kindergarten (4 Years Old)</option>
        <option value="K5">Kindergarten (5 Years Old)</option>
        <option value="K6">Kindergarten (6 Years Old)</option>
        <option value="PS1">Primary School (Standard 1)</option>
        <option value="PS2">Primary School (Standard 2)</option>
        <option value="PS3">Primary School (Standard 3)</option>
        <option value="PS4">Primary School (Standard 4)</option>
        <option value="PS5">Primary School (Standard 5)</option>
        <option value="PS6">Primary School (Standard 6)</option>
        <option value="SS1">Secondary School (Form 1)</option>
        <option value="SS2">Secondary School (Form 2)</option>
        <option value="SS3">Secondary School (Form 3)</option>
        <option value="SS4">Secondary School (Form 4)</option>
        <option value="SS5">Secondary School (Form 5)</option>
        <option value="U1">Pre-University / University (A-Level / Foundation / Diploma / STPM)</option>
        <option value="U2">Pre-University / University (Degree)</option>
        <option value="U3">Pre-University / University (Master)</option>
        <option value="U4">Pre-University / University (PhD)</option>
    </select>

    <label for="explanation">Explanation</label>
    <textarea name="question_explanation" rows="4" required></textarea>

    <div class="question-container">
        <label>Question 1</label>
        <input type="text" name="question" placeholder="Enter question" required>

        <div class="options">
            <input type="radio" name="option" value="1" required>
            <input type="text" name="option_text1" placeholder="Option 1" required>
        </div>
        <div class="options">
            <input type="radio" name="option" value="2" required>
            <input type="text" name="option_text2" placeholder="Option 2" required>
        </div>
        <div class="options">
            <input type="radio" name="option" value="3" required>
            <input type="text" name="option_text3" placeholder="Option 3" required>
        </div>
        <div class="options">
            <input type="radio" name="option" value="4" required>
            <input type="text" name="option_text4" placeholder="Option 4" required>
        </div>
    </div>

    <div class="button-group">
        <button type="button" class="discard-button" onclick="window.location.href='mainPage.php'">Discard</button>
        <button type="submit" class="next-question-button" name="next-question">Next Question</button>
    </div>
</form>
```

This part provides text bar for user to enter the quiz name, explanation, questions, and answers of the quiz. Users can also select a category for the quiz. All these information will be uploaded to the system when the submit button is clicked.

```

<?php
    if (isset($_POST['next-question'])) {
        include("conn.php");

        if ($_POST['option'] == 1) {
            $question_answer = "1";
        } else if ($_POST['option'] == 2) {
            $question_answer = "2";
        } else if ($_POST['option'] == 3) {
            $question_answer = "3";
        } else {
            $question_answer = "4";
        }

        // Sanitize input data
        $quiz_name = mysqli_real_escape_string($con, $_POST['quiz_name']);
        $question = mysqli_real_escape_string($con, $_POST['question']);
        $question_explanation = mysqli_real_escape_string($con, $_POST['question_explanation']);
        $quiz_category = mysqli_real_escape_string($con, $_POST['quiz_category']);

        // Insert quiz and get the quiz_id
        $sql1 = "INSERT INTO quizzes (quiz_name, quiz_category, creator_id) VALUES ('$quiz_name', '$quiz_category', '$userid')";
        mysqli_query($con, $sql1);

        // Get the last inserted quiz_id
        $quiz_id = mysqli_insert_id($con);

        $_SESSION['quiz_name'] = $quiz_name;
        $_SESSION['quiz_id'] = $quiz_id;

        // Insert the question with the correct foreign key reference
        $sql2 = "INSERT INTO questions (question, question_explanation, question_answer, quizzes_fk)
        |   | VALUES ('$question', '$question_explanation', '$question_answer', '$quiz_id')";
        mysqli_query($con, $sql2);

        // Get the last inserted question_id
        $question_id = mysqli_insert_id($con);

        // Insert the options with the correct foreign key reference
        $option_text1 = mysqli_real_escape_string($con, $_POST['option_text1']);
        $sql3 = "INSERT INTO options (option_text, questions_fk)
        |   | VALUES ('$option_text1', '$question_id')";
        mysqli_query($con, $sql3);

        $option_text2 = mysqli_real_escape_string($con, $_POST['option_text2']);
        $sql4 = "INSERT INTO options (option_text, questions_fk)
        |   | VALUES ('$option_text2', '$question_id')";
        mysqli_query($con, $sql4);

        $option_text3 = mysqli_real_escape_string($con, $_POST['option_text3']);
        $sql5 = "INSERT INTO options (option_text, questions_fk)
        |   | VALUES ('$option_text3', '$question_id')";
        mysqli_query($con, $sql5);

        $option_text4 = mysqli_real_escape_string($con, $_POST['option_text4']);
        $sql6 = "INSERT INTO options (option_text, questions_fk)
        |   | VALUES ('$option_text4', '$question_id')";
        mysqli_query($con, $sql6);

        // Check for any errors
        if (mysqli_error($con)) {
            die('Error: ' . mysqli_error($con));
        } else {
            echo '<script>window.location.href = "add-quizzes-2.php";</script>';
        }
    }
}

```

This code uploads the quiz information to the database, such as questions, explanations, and answers. After that, the system will generate a quiz id when the quiz uploaded successfully.

edit-quizzes.php

```
<form action="update-quizzes.php" method="post">
<input type="hidden" name="quiz_id" value=<?php echo $row['quiz_id']; ?>>

<label for="quiz_name">Quiz Name:</label>
<input type="text" id="quiz_name" name="quiz_name" value=<?php echo htmlspecialchars($row['quiz_name']); ?>" required>

<label for="quiz_category">Category:</label>
<select id="quiz_category" name="quiz_category" required>
    <option value="" disabled>Select a category</option>
    <option value="K3" <?php if ($row['quiz_category'] == "K3") echo "selected"; ?>>Kindergarten (3 Years Old)</option>
    <option value="K4" <?php if ($row['quiz_category'] == "K4") echo "selected"; ?>>Kindergarten (4 Years Old)</option>
    <option value="K5" <?php if ($row['quiz_category'] == "K5") echo "selected"; ?>>Kindergarten (5 Years Old)</option>
    <option value="K6" <?php if ($row['quiz_category'] == "K6") echo "selected"; ?>>Kindergarten (6 Years Old)</option>
    <option value="PS1" <?php if ($row['quiz_category'] == "PS1") echo "selected"; ?>>Primary School (Standard 1)</option>
    <option value="PS2" <?php if ($row['quiz_category'] == "PS2") echo "selected"; ?>>Primary School (Standard 2)</option>
    <option value="PS3" <?php if ($row['quiz_category'] == "PS3") echo "selected"; ?>>Primary School (Standard 3)</option>
    <option value="PS4" <?php if ($row['quiz_category'] == "PS4") echo "selected"; ?>>Primary School (Standard 4)</option>
    <option value="PS5" <?php if ($row['quiz_category'] == "PS5") echo "selected"; ?>>Primary School (Standard 5)</option>
    <option value="PS6" <?php if ($row['quiz_category'] == "PS6") echo "selected"; ?>>Primary School (Standard 6)</option>
    <option value="SS1" <?php if ($row['quiz_category'] == "SS1") echo "selected"; ?>>Secondary School (Form 1)</option>
    <option value="SS2" <?php if ($row['quiz_category'] == "SS2") echo "selected"; ?>>Secondary School (Form 2)</option>
    <option value="SS3" <?php if ($row['quiz_category'] == "SS3") echo "selected"; ?>>Secondary School (Form 3)</option>
    <option value="SS4" <?php if ($row['quiz_category'] == "SS4") echo "selected"; ?>>Secondary School (Form 4)</option>
    <option value="SS5" <?php if ($row['quiz_category'] == "SS5") echo "selected"; ?>>Secondary School (Form 5)</option>
    <option value="U1" <?php if ($row['quiz_category'] == "U1") echo "selected"; ?>>Pre-University / University (A-Level / Foundation / Diploma / STPM)</option>
    <option value="U2" <?php if ($row['quiz_category'] == "U2") echo "selected"; ?>>Pre-University / University (Degree)</option>
    <option value="U3" <?php if ($row['quiz_category'] == "U3") echo "selected"; ?>>Pre-University / University (Master)</option>
    <option value="U4" <?php if ($row['quiz_category'] == "U4") echo "selected"; ?>>Pre-University / University (PhD)</option>
</select>
```

This part allowed users to change the name and category of selected quiz, the changes of quiz name will be uploaded to the database when users enter a new name for the quiz. Besides, users can select a new category for the quiz, and it will directly upload to the system.

```

<?php
// Loop through questions and options
$question_index = 1;
$question_result = mysqli_query($con, "SELECT * FROM questions WHERE quizzes_fk=$quiz_id");
while ($question_row = mysqli_fetch_array($question_result)) {
    $question_id = $question_row['question_id'];
    $correct_answer = $question_row['question_answer']; // Correct answer
    ?>

    <div class="question-container">
        <label>Question <?php echo $question_index; ?></label>
        <input type="text" name="question_<?php echo $question_id; ?>" value="<?php echo htmlspecialchars($question_row['question']); ?>" required>

        <label for="question_explanation_<?php echo $question_id; ?>">Explanation:</label>
        <textarea id="question_explanation_<?php echo $question_id; ?>" name="question_explanation_<?php echo $question_id; ?>" rows="4" required><?php echo htmlspecialchars($question_row['question_explanation']); ?></textarea>

        <?php
        // Fetch options for the current question
        $option_result = mysqli_query($con, "SELECT * FROM options WHERE questions_fk=$question_id");
        $option_index = 1;
        while ($option_row = mysqli_fetch_array($option_result)) {
            $is_checked = ($correct_answer == $option_index) ? 'checked' : '';
            ?>

            <div class="options">
                <input type="radio" name="option_<?php echo $question_id; ?>" value="<?php echo $option_index; ?>" <?php echo $is_checked; ?>
                <input type="text" name="option_text<?php echo $option_index; ?>" value="<?php echo htmlspecialchars($option_row['option_text']); ?>" required>
            </div>
            <?php
            $option_index++;
        }
        ?>

    </div>
    <?php
    $question_index++;
}
?>

<div class="button-group">
    <button type="submit" name="save_changes" class="save">Save Changes</button>
    <button type="button" class="discard" onclick="window.location.href='t-mainPage.php'">Discard</button>
</div>
</form>

```

These codes allow users to edit the question, explanation and answer of the quiz. Users need to insert the new question in the text bar and click the submit button to upload the latest version to the system.

my-quizzesPage.php

```
<div class="right-header">
    <button class="notification-btn" onclick="window.location.href='notificationsPage.php'">
        
        <div class="notification-tip">Notifications</div>
    </button>
    <button class="profile-btn" onclick="window.location.href='profilePage.php'">
        
        <div class="profile-tip">Profile</div>
    </button>
</div>
<div class="content-container">
    <?php
        $sql = "SELECT * FROM quizzes WHERE creator_id=$_SESSION[userid] ORDER BY quizzes.quiz_id DESC";
        $result = mysqli_query($con, $sql);
        while ($row = mysqli_fetch_array($result)) {
            echo '<div class="quiz-container">
                <div class="q-name">' . $row["quiz_name"] . '</div>
                <button class="edit-button" onclick="window.location.href=\\'edit-quizzes.php?quiz_id=' . $row['quiz_id'] . '\\'>
                    | | Edit
                </button>
            </div>';
        }
    ?>
</div>
<div id="sidebar">
    <div class="sidebar-buttons-group"></div>
    <div class="hamburger-icon">
        
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href='mainPage.php'">
        
        <div>Home</div>
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href='my-quizzesPage.php'">
        
        <div>My Quizzes</div>
    </div>
    <div class="add-quizzes" onclick="window.location.href='add-quizzes.php'">
        +
    </div>
</div>
<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>

```

This part provides a page for lecturer to view the quizzes created by them to simplify the modifications of quizzes. Lecturer can select any quiz to edit in this page. If they click the edit button, they will be redirected the quiz edit page. Other element in this page such as notification and profile button are same in every page of the system.

quizzesPage.php

This page of code prompt user the question of the selected quiz and record users' answer. The answer will be submitted when user click the next question button. It verified whether the answer is correct and record it into system. After both questions are completed, it will bring user to the result page to show their result of the test.

4.3 Anderson Tey Le Tian (TP076394)

quizzes-resultPage.php

```
<body>
  <div class="result-container">
    <header>Your Quiz Results</header>
    <p class="result"><?php echo $score; ?>/5</p>

    <h2>Correct Answers and Explanations</h2>
    <?php while ($question_row = mysqli_fetch_assoc($questions_result)) {
      $question_id = $question_row['question_id'];
      $correct_answer = $question_row['question_answer'];
      $question_explanation = $question_row['question_explanation'];

      // Fetch the correct option text
      $correct_option_result = mysqli_query($con, "SELECT * FROM options WHERE questions_fk=$question_id LIMIT " . ($correct_answer - 1) . ", 1");
      $correct_option_row = mysqli_fetch_assoc($correct_option_result);
      $correct_option_text = $correct_option_row['option_text'];
    }>
    <div>
      <p><strong>Question:</strong> <?php echo htmlspecialchars($question_row['question']); ?></p>
      <p><strong>Correct Answer:</strong> <?php echo htmlspecialchars($correct_option_text); ?></p>
      <p><strong>Explanation:</strong> <?php echo htmlspecialchars($question_explanation); ?></p>
    </div>
  <?php } ?>
  <button class="done-button" onclick="window.location.href='mainPage.php'">
    | Done
  </button>
</div>
</body>

$quiz_id = intval($_GET['quiz_id']);
$student_id = intval($_SESSION['userid']);

// Calculate score
$score_result = mysqli_query($con, "SELECT SUM(is_correct) AS correct_answers FROM temp_submission WHERE student_id=$student_id AND quizzes_fk=$quiz_id");
$score_row = mysqli_fetch_assoc($score_result);
$score = $score_row['correct_answers'];

// Fetch questions and correct answers
$questions_result = mysqli_query($con, "SELECT * FROM questions WHERE quizzes_fk=$quiz_id");

// Clear temporary data
mysqli_query($con, "DELETE FROM temp_submission WHERE student_id=$student_id AND quizzes_fk=$quiz_id");
?>
```

This page will display student's result after they done the quiz, it will calculate their score and show it with explanation of every question. The correct answer will also show in this page and users can click the done button to back to the main page.

update-quizzes.php

```
// check if quiz_id is provided in the POST request
if (isset($_POST['quiz_id'])) {
    $quiz_id = intval($_POST['quiz_id']);
    $quiz_name = mysqli_real_escape_string($con, $_POST['quiz_name']);
    $quiz_category = mysqli_real_escape_string($con, $_POST['quiz_category']);

    // Update quiz information
    $update_quiz_query = "UPDATE quizzes SET quiz_name='$quiz_name', quiz_category='$quiz_category' WHERE quiz_id=$quiz_id";
    if (!mysqli_query($con, $update_quiz_query)) {
        echo "<script>alert('Error updating quiz'); window.location.href='edit-quiz.php?quiz_id=$quiz_id';</script>";
        exit();
    }

    // Loop through each question and update
    $question_result = mysqli_query($con, "SELECT * FROM questions WHERE quizzes_fk=$quiz_id");
    while ($question_row = mysqli_fetch_array($question_result)) {
        $question_id = $question_row['question_id'];

        // Get question data from POST
        $question = mysqli_real_escape_string($con, $_POST["question_" . $question_id]);
        $question_explanation = mysqli_real_escape_string($con, $_POST["question_explanation_" . $question_id]);
        $question_answer = intval($_POST["option_" . $question_id]); // Correct answer

        // Update question information
        $update_question_query = "UPDATE questions SET question='$question', question_explanation='$question_explanation', question_answer=$question_answer
        WHERE question_id=$question_id";
        if (!mysqli_query($con, $update_question_query)) {
            echo "<script>alert('Error updating question $question_id'); window.location.href='edit-quiz.php?quiz_id=$quiz_id';</script>";
            exit();
        }

        // Loop through each option and update
        $option_index = 1;
        $option_result = mysqli_query($con, "SELECT * FROM options WHERE questions_fk=$question_id");
        while ($option_row = mysqli_fetch_array($option_result)) {
            $option_id = $option_row['option_id'];
            $option_text = mysqli_real_escape_string($con, $_POST["option_text" . $option_index . "_" . $question_id]);

            // Update option information
            $update_option_query = "UPDATE options SET option_text='$option_text' WHERE option_id=$option_id";
            if (!mysqli_query($con, $update_option_query)) {
                echo "<script>alert('Error updating option $option_id'); window.location.href='edit-quiz.php?quiz_id=$quiz_id';</script>";
                exit();
            }

            $option_index++;
        }
    }

    echo "<script>alert('Quiz updated successfully!'); window.location.href='my-quizzesPage.php';</script>";
} else {
    echo "<script>alert('Invalid request'); window.location.href='my-quizzesPage.php';</script>";
}
?>
```

This part allows users to update the quiz information question by question, it check if every questions are the latest version and update it when any changes are made.

historyPage.php

```
<?php
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
            
            <div>History</div>
        </div>
    </div>
<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
} else {
    echo '<div id="sidebar">
        <div class="sidebar-buttons-group"></div>
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'my-quizzesPage.php\\\'">
            
            <div>My Quizzes</div>
        </div>
        <div class="add-quizzes" onclick="window.location.href=\\'add-quizzes.php\\\'">
            +
        </div>
    </div>
</div>';
```

```

<div id="header">
  <div class="left-header">
    | 
  </div>
  <div class="middle-header">
    <form method="post" class="search-form">
      <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
      <button class="search-btn" name="search-btn">
        | 
        | <div class="search-tip">Search</div>
      </button>
    </form>
  </div>
  <div class="right-header">
    <button class="notification-btn" onclick="window.location.href='notificationsPage.php'">
      | 
      | <div class="notification-tip">Notifications</div>
    </button>
    <button class="profile-btn" onclick="window.location.href='profilePage.php'">
      | 
      | <div class="profile-tip">Profile</div>
    </button>
  </div>
</div>';

}

<div class="content-container">
  <?php
  $sql = "SELECT * FROM submission JOIN quizzes ON submission.quizzes_fk = quizzes.quiz_id WHERE student_id=$_SESSION[user_id] ORDER BY submission.submission_id DESC";
  $result = mysqli_query($con, $sql);
  while ($row = mysqli_fetch_array($result)) {
    echo '<div class="history-container">
      | <div class="history">' . $row["quiz_name"] . '</div>
      | <button class="view-button" onclick="window.location.href=\'history-resultPage.php?submission_id=' . $row['submission_id'] . '\'">
      |   | View
      | </button>
    </div>';
  }
  ?>
</div>

```

These codes display user's previous submissions according to the submission id and enable student to view the result of quizzes submitted by clicking on the view button. The other function such as sidebar and header also provided by other codes in this page.

history-resultPage.php

```
<body>
    <div class="result-container">
        <header>Your Quiz Results: <?php echo htmlspecialchars($quiz_name); ?></header>
        <p class="result"><?php echo $score; ?>/5</p>
        <h2>Correct Answers and Explanations</h2>
        <?php while ($question_row = mysqli_fetch_assoc($questions_result)) {
            $question_id = $question_row['question_id'];
            $correct_answer = $question_row['question_answer'];
            $question_explanation = $question_row['question_explanation'];

            $correct_option_query = "SELECT option_text FROM options WHERE questions_fk = $question_id LIMIT " . ($correct_answer - 1) . ", 1";
            $correct_option_result = mysqli_query($con, $correct_option_query);
            $correct_option_row = mysqli_fetch_assoc($correct_option_result);
            $correct_option_text = $correct_option_row['option_text'];
        }>
        <div>
            <p><strong>Question:</strong> <?php echo htmlspecialchars($question_row['question']); ?></p>
            <p><strong>Correct Answer:</strong> <?php echo htmlspecialchars($correct_option_text); ?></p>
            <p><strong>Explanation:</strong> <?php echo htmlspecialchars($question_explanation); ?></p>
        </div>
    <?php } ?>
    <button class="done-button" onclick="window.location.href='historyPage.php'">Done</button>
</div>
</body>

// Validate and fetch submission data
if (!isset($_GET['submission_id'])) {
    echo "<script>alert('Invalid submission.'); window.location.href='mainPage.php';</script>";
    exit();
}

$submission_id = intval($_GET['submission_id']);
$submission_query = "
    SELECT
        s.submission_result,
        s.quizzes_fk,
        q.quiz_name
    FROM
        submission s
    JOIN
        quizzes q
    ON
        s.quizzes_fk = q.quiz_id
    WHERE
        s.submission_id = $submission_id
";

$submission_result = mysqli_query($con, $submission_query);

if (mysqli_num_rows($submission_result) === 0) {
    echo "<script>alert('Submission not found.'); window.location.href='mainPage.php';</script>";
    exit();
}
$submission_data = mysqli_fetch_assoc($submission_result);
$quiz_id = $submission_data['quizzes_fk'];
$score = $submission_data['submission_result'];
$quiz_name = $submission_data['quiz_name'];

// Fetch questions and correct answers
$questions_result = mysqli_query($con, "SELECT * FROM questions WHERE quizzes_fk=$quiz_id");
?>
```

This page displays the result of previous submission for users to check their history. The questions, explanation and answer are shown in this page. Users cannot view the history if does not submit any quiz before.

notificationsPage.php

```
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'>
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'>
            
            <div>History</div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header" >
            <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'>
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'>
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';
} else {
    echo '<div id="sidebar">
        <div class="sidebar-buttons-group"></div>
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'>
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'my-quizzesPage.php\\\'>
            
            <div>My Quizzes</div>
        </div>
        <div class="add-quizzes" onclick="window.location.href=\\'add-quizzes.php\\\'>
            +
        </div>
    </div>

```

```

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href='notificationsPage.php'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href='profilePage.php'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';

<div class="page-title">
    Notifications
</div>
</div>
</php>
if ($row['user_role'] == "Student"){
    echo '<div class="notications-page-container">';

    $sql = "SELECT * FROM quizzes JOIN register ON quizzes.creator_id = register.userid WHERE user_role = 'Teacher' ORDER BY quizzes.quiz_id DESC";
    $result = mysqli_query($con, $sql);
    while ($row = mysqli_fetch_array($result)) {
        echo '<div class="notications-containner">';
        if ($row['user_gender'] == "Male") {
            echo '';
        } else {
            echo '';
        }
        echo '<div class="notications">' . $row["user_name"] . ' has created a quiz "' . $row["quiz_name"] . '"';
        echo '</div>';
    }

    echo '</div>';
} else {
    echo '<div class="notications-page-container">';

    $sql = "SELECT * FROM submission JOIN quizzes ON submission.quizzes_fk = quizzes.quiz_id JOIN register ON submission.student_id = register.userid WHERE creator_id = $userid ORDER BY submission.submission_id DESC";
    $result = mysqli_query($con, $sql);
    while ($row = mysqli_fetch_array($result)) {
        echo '<div class="notications-containner">';
        if ($row['user_gender'] == "Male") {
            echo '';
        } else {
            echo '';
        }
        echo '<div class="notications">' . $row["user_name"] . ' has completed a quiz "' . $row["quiz_name"] . '" with a result of ' . $row["submission_result"] . '/';
        echo '</div>';
    }
}

```

These codes display notification received by users when lecturer create a new quiz or student submit a quiz. In student view, it will remind student that lecturer post a new quiz on the system. However, when the user's role is lecturer, it will send notification when students submit a quiz created by the lecturer.

4.4 Andre Darieus Lim Yan Hunn (TP074902)

Mainpage

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'>
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'>
            
            <div>History</div>
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'>
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'>
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>
```

```

        </div>';
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>

```

If the user is a "Student" or another role, this code will show a website layout with a dynamic header and sidebar. As for a "Student," they'll see the homepage and history pages linked in the sidebar, plus a logo, search bar, and profile and notifications buttons in the top. Aside from "My Quizzes" and the ability to upload quizzes, the header and sidebar components remain the same for other users. In accordance with this, the content is modified: students can only see the basic pages, whilst other users have access to administrative features like quiz management. The user interface is dynamic and has search capabilities for entering quiz codes along with navigation indicators.

```
        |     </button>
        |     </div>
        |     </div>';
    }

?>

<div class="main-page-content">
    <h1 class="main-page-title">
        | New and Hot Quizzes
    </h1>
    <div class="main-page-banner" onclick="window.location.href='hot-quizzesPage.php'">
        | New and Hot Quiz
    </div>
    <div class="main-page-categories-title">
        | Categories
    </div>
    <div class="main-page-categories-container">
        <div class="main-page-categories" onclick="window.location.href='kindergarten-categories.php'">
            | Kindergarten
        </div>
        <div class="main-page-categories" onclick="window.location.href='primarySchool-categories.php'">
            | Primary School
        </div>
        <div class="main-page-categories" onclick="window.location.href='secondarySchool-categories.php'">
            | Secondary School
        </div>
        <div class="main-page-categories" onclick="window.location.href='uni-categories.php'">
            | Pre-University & University
        </div>
    </div>
</div>
</body>
</html>
```

The primary material of a quiz website's homepage is represented by this code. It has a banner that readers may click to get to the page where the "New and Hot Quizzes" can be found, as well as a title section that introduces them. Listed below this is a "Categories" section that includes clickable things for various educational levels, including elementary, middle, and high school as well as pre-university and university. You may find quizzes designed for different levels of education by following the links provided for each category. This layout is designed to let users find different quiz subjects according to their education level.

Search page

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
            
            <div>History</div>
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```

} else {
    echo '<div id="sidebar">
        <div class="sidebar-buttons-group"></div>
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'my-quizzesPage.php\\\'">
            
            <div>My Quizzes</div>
        </div>
        <div class="add-quizzes" onclick="window.location.href=\\'add-quizzes.php\\\'">
            +
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>

```

In this PHP code, the user's role is used to build a dynamic website interface (\$row['user_role']). For users identified as "Student," the interface includes a logo, search bar, alerts, and profile buttons in the header, as well as a sidebar with links to the home and history pages. "My Quizzes" and the opportunity to create new quizzes are among the extra choices available to other jobs on the sidebar. The onclick characteristics are used by both interfaces to route users to the appropriate pages. To provide a role-specific experience, the layout is divided into parts for navigation and user interaction.

```

        </div>
    </div>';
}

?>

<div class="page-title">
    Search Result
</div>
<div class="content-container">
<?php
// Ensure the database connection is included
include("conn.php");

// Replace the SQL query to filter by category
$quiz_id = intval($_GET['quiz_id']);
$sql = "SELECT * FROM quizzes WHERE quiz_id = $quiz_id";
$result = mysqli_query($con, $sql);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    while ($row = mysqli_fetch_array($result)) {
        echo '<div class="quiz-container">
            <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>;
        // Check if user_role is Student
        if ($row_role['user_role'] == "Student") {
            echo '<button class="start-quiz-button" onclick="window.location.href=\'' . quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'>
                Start Quiz
            </button>';
        }
        echo '</div>';
    }
} else {
    echo '<p>This category is empty.</p>';
}
?>
</div>
</body>

```

This code takes the quiz_id from the URL parameters and uses it to dynamically construct a website that displays the contents of the quiz. This code establishes a database connection (conn.php) and searches the quizzes table for the exact quiz that matches the given quiz_id. Furthermore, it queries the registration database for the user_role of the currently logged-in user. It shows the names of the quizzes in a styled container if they are discovered. Users in the "Student" role will see a "Start Quiz" button that, when clicked, will take them directly to the quiz page where they can enter the quiz ID to begin. A notice is sent to the user if the category does not have any quizzes. An interactive and role-specific user experience is guaranteed by this.

Hot quiz

```
<?php
session_start();

if (!isset($_SESSION['userid'])) {
    echo "<script>alert('Please login!'); window.location.href='loginPage.php';</script>";
    exit();
}

include("conn.php");

$userid = mysqli_real_escape_string($con, $_SESSION['userid']);

$sql = "SELECT * FROM register WHERE userid = '$userid'";
$result = mysqli_query($con, $sql);

if (mysqli_num_rows($result) > 0) {
    $row = mysqli_fetch_assoc($result);
    // Display user details, e.g., echo $row['column_name'];
} else {
    echo "<script>alert('User details not found!'); window.location.href='loginPage.php';</script>";
    exit();
}

if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $search = $_POST['search'];

    header("Location: searchPage.php?quiz_id=$search");
    exit();
}
```

To determine whether a user is currently logged in, this PHP code first creates a session and then checks to see if the userid is set in the session. If it doesn't, a warning is shown and the user is sent to the login page. Using the userid saved in the session, it establishes a connection to the database and obtains the user's information. Details about the user may be presented if their information is in the database; otherwise, a warning message is provided and the user is sent back to the login page. In addition, when a form is sent by POST, the script saves the user's search query, sends them to a page with search results, and then departs.

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
echo '<div id="sidebar">
    <div class="hamburger-icon">
        
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
        
        <div>Home</div>
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
        
        <div>History</div>
    </div>
</div>
<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```

} else {
    echo '<div id="sidebar">
        <div class="sidebar-buttons-group"></div>
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'my-quizzesPage.php\\\'">
            
            <div>My Quizzes</div>
        </div>
        <div class="add-quizzes" onclick="window.location.href=\\'add-quizzes.php\\\'">
            +
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

Various HTML structures are generated by this PHP code according on the user's role. In the case of a "Student" user, a sidebar including "Home" and "History" navigation buttons, a search bar, notifications, and profile buttons are shown in the header. The same header structure is seen regardless of the user's status, however when they are not a "Student," a sidebar containing "Home," "My Quizzes," and the ability to create new quizzes is shown. The header also has buttons that go to other sites, such as those where the user may read their profile, access their alerts, and search quizzes.

```
<?php
<div class="quizzes-categories-title">
    New and Hot Quizzes
</div>
<div class="content-container">
    <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_id = '53'";
        $result = mysqli_query($con, $sql);
        $row = mysqli_fetch_array($result);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

        // Check if there are any results
        if (mysqli_num_rows($result) > 0) {
            echo '<div class="quiz-container">';
                <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
                // Check if user_role is Student
                if ($row_role['user_role'] == "Student") {
                    echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">';
                        ||| Start Quiz
                    </button>';
                }
            echo '</div>';
        } else {
            echo '<p>This category is empty.</p>';
        }

        $sql = "SELECT * FROM quizzes WHERE quiz_id = '59'";
        $result = mysqli_query($con, $sql);
        $row = mysqli_fetch_array($result);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);
```

```
// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
    // Check if user_role is Student
    if ($row_role['user_role'] == "Student") {
        echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
            Start Quiz
        </button>';
    }
    echo '</div>';

} else {
    echo '<p>This category is empty.</p>';
}

$sql = "SELECT * FROM quizzes WHERE quiz_id = '56'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
    // Check if user_role is Student
    if ($row_role['user_role'] == "Student") {
        echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
            Start Quiz
        </button>';
    }
    echo '</div>';

} else {
    echo '<p>This category is empty.</p>';
}

$sql = "SELECT * FROM quizzes WHERE quiz_id = '55'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);
```

```

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
    // Check if user_role is Student
    if ($row_role['user_role'] == "Student") {
        echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\''>
            | Start Quiz
            </button>';
    }
    echo '</div>';

} else {
    echo '<p>This category is empty.</p>';
}
?>
</div>

<div class="quizzes-categories-title" style="margin-top: 50px;">
Kindergarten
</div>
<div class="container">
<div class="content-container">
<?php
// Ensure the database connection is included
include("conn.php");

// Replace the SQL query to filter by category
$sql = "SELECT * FROM quizzes WHERE quiz_id = '53'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

```

```

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
    // Check if user_role is Student
    if ($row_role['user_role'] == "Student") {
        echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\''>
            | Start Quiz
            </button>';
    }
    echo '</div>';

} else {
    echo '<p>This category is empty.</p>';
}

$sql = "SELECT * FROM quizzes WHERE quiz_id = '59'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
    // Check if user_role is Student
    if ($row_role['user_role'] == "Student") {
        echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\''>
            | Start Quiz
            </button>';
    }
    echo '</div>';

} else {
    echo '<p>This category is empty.</p>';
}

```

```

$sql = "SELECT * FROM quizzes WHERE quiz_id = '56'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
    // Check if user_role is Student
    if ($row_role['user_role'] == "Student") {
        echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
            Start Quiz
        </button>';
    }
    echo '</div>';
}

} else {
    echo '<p>This category is empty.</p>';
}

$sql = "SELECT * FROM quizzes WHERE quiz_id = '55'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
        // Check if user_role is Student
        if ($row_role['user_role'] == "Student") {
            echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
                Start Quiz
            </button>';
        }
        echo '</div>';
}

} else {
    echo '<p>This category is empty.</p>';
}

```

```

    </div>
}

} else {
    echo '<p>This category is empty.</p>';
}
?>
</div>
<button class="browse-button" onclick="window.location.href='kindergarten-categories.php'">Browse More</button>
</div>

<div class="quizzes-categories-title" style="margin-top: 50px;">
Primary School
</div>
<div class="container">
<div class="content-container">
<?php
// Ensure the database connection is included
include("conn.php");

// Replace the SQL query to filter by category
$sql = "SELECT * FROM quizzes WHERE quiz_id = '53'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
        // Check if user_role is Student
        if ($row_role['user_role'] == "Student") {
            echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
                Start Quiz
            </button>';
        }
    echo '</div>';
}

} else {
    echo '<p>This category is empty.</p>';
}

```

```
J

$sql = "SELECT * FROM quizzes WHERE quiz_id = '59'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
    // Check if user_role is Student
    if ($row_role['user_role'] == "Student") {
        echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
            Start Quiz
        </button>';
    }
    echo '</div>';

} else {
    echo '<p>This category is empty.</p>';
}

$sql = "SELECT * FROM quizzes WHERE quiz_id = '56'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
    // Check if user_role is Student
    if ($row_role['user_role'] == "Student") {
        echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
            Start Quiz
        </button>';
    }
    echo '</div>';

}
```

```

} else {
    echo '<p>This category is empty.</p>';
}

$sql = "SELECT * FROM quizzes WHERE quiz_id = '55'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>;
        // Check if user_role is Student
        if ($row_role['user_role'] == "Student") {
            echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
                Start Quiz
            </button>';
        }
    echo '</div>';

} else {
    echo '<p>This category is empty.</p>';
}
?>
</div>
<button class="browse-button" onclick="window.location.href='primarySchool-categories.php'">Browse More</button>
</div>

<div class="quizzes-categories-title" style="margin-top: 50px;">
Secondary School
</div>
<div class="container">
<div class="content-container">
<?php
// Ensure the database connection is included
include("conn.php");

```

```

// Replace the SQL query to filter by category
$sql = "SELECT * FROM quizzes WHERE quiz_id = '53'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>;
        // Check if user_role is Student
        if ($row_role['user_role'] == "Student") {
            echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
                Start Quiz
            </button>';
        }
    echo '</div>';

} else {
    echo '<p>This category is empty.</p>';
}

$sql = "SELECT * FROM quizzes WHERE quiz_id = '59'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>;
        // Check if user_role is Student
        if ($row_role['user_role'] == "Student") {
            echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
                Start Quiz
            </button>';
        }
    echo '</div>';

}
```

```

        }
        echo '</div>';

    } else {
        echo '<p>This category is empty.</p>';
    }

$sql = "SELECT * FROM quizzes WHERE quiz_id = '56'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>;
        // Check if user_role is Student
        if ($row_role['user_role'] == "Student") {
            echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
                Start Quiz
            </button>';
        }
    echo '</div>';

} else {
    echo '<p>This category is empty.</p>';
}

$sql = "SELECT * FROM quizzes WHERE quiz_id = '55'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

```

```

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>;
        // Check if user_role is Student
        if ($row_role['user_role'] == "Student") {
            echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
                Start Quiz
            </button>';
        }
    echo '</div>';

} else {
    echo '<p>This category is empty.</p>';
}
?>
</div>
<button class="browse-button" onclick="window.location.href='secondarySchool-categories.php'>Browse More</button>
</div>

<div class="quizzes-categories-title" style="margin-top: 50px;">
Pre-University & University
</div>
<div class="container">
    <div class="content-container">
        <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_id = '53'";
        $result = mysqli_query($con, $sql);
        $row = mysqli_fetch_array($result);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

```

```

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
    // Check if user_role is Student
    if ($row_role['user_role'] == "Student") {
        echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
            Start Quiz
        </button>';
    }
    echo '</div>';
} else {
    echo '<p>This category is empty.</p>';
}

$sql = "SELECT * FROM quizzes WHERE quiz_id = '59'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
    // Check if user_role is Student
    if ($row_role['user_role'] == "Student") {
        echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
            Start Quiz
        </button>';
    }
    echo '</div>';
} else {

```

```

    echo '<p>This category is empty.</p>';
}

$sql = "SELECT * FROM quizzes WHERE quiz_id = '56'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
    // Check if user_role is Student
    if ($row_role['user_role'] == "Student") {
        echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
            Start Quiz
        </button>';
    }
    echo '</div>';
} else {
    echo '<p>This category is empty.</p>';
}

$sql = "SELECT * FROM quizzes WHERE quiz_id = '55'";
$result = mysqli_query($con, $sql);
$row = mysqli_fetch_array($result);

$sql_role = "SELECT user_role FROM register WHERE userid = $userid";
$result_role = mysqli_query($con, $sql_role);
$row_role = mysqli_fetch_array($result_role);

// Check if there are any results
if (mysqli_num_rows($result) > 0) {
    echo '<div class="quiz-container">
        <div class="q-info">' . htmlspecialchars($row["quiz_name"]) . '</div>';
    // Check if user_role is Student
    if ($row_role['user_role'] == "Student") {
        echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
            Start Quiz
        </button>';
    }
    echo '</div>';
}

```

```
        }
        echo '</div>';

    } else {
        echo '<p>This category is empty.</p>';
    }
?>
</div>
<button class="browse-button" onclick="window.location.href='uni-categories.php'">Browse More</button>
</div>
</body>
</html>
```

With the use of predetermined quiz IDs for several categories (New and Hot Quizzes, Kindergarten, Primary School, Secondary School, and Pre-University & University), this code dynamically displays quizzes from a database. It uses mysqli to access a MySQL database, retrieves the quizzes, and then, for each category, checks to see whether any have certain quiz_ids (such as 53, 59, 56, 55). It verifies the user's status as a student for each quiz and, if it's a good fit, shows a "Start Quiz" button that takes the user to the quiz page. A notice is shown to indicate that a category is empty if no quizzes are discovered for it. The code also has links to other quizzes in each category.

Categories

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
            
            <div>History</div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';
}
```

```

} else {
    echo '<div id="sidebar">
        <div class="sidebar-buttons-group"></div>
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
            
            <div>My Quizzes</div>
        </div>
        <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
            +
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';

```

By modifying the \$row['user_role'] variable according to the current user's role, this code dynamically creates a header and sidebar layout for the site. By default, as a "Student," the user's sidebar has links to the "Home" and "History" pages, while the logo, search bar, and buttons for alerts and profile access are located in the header. For users who are not students, the sidebar still has the same header layout, but they now have buttons that say "My Quizzes" and a way to upload quizzes. Thanks to this design, each user's rights and behaviors are taken into account while creating a personalized interface.

```
?>
<button class="back-btn" onclick="window.location.href='mainPage.php'">Back</button>

<div class="kindergarten-categories-title">
    Kindergarten
</div>
<div class="kindergarten-categories-container">
    <div class="kindergarten-categories" onclick="window.location.href='kindergarten-three-yo.php'">
        | 3 Years Old
    </div>
    <div class="kindergarten-categories" onclick="window.location.href='kindergarten-four-yo.php'">
        | 4 Years Old
    </div>
    <div class="kindergarten-categories" onclick="window.location.href='kindergarten-five-yo.php'">
        | 5 Years Old
    </div>
    <div class="kindergarten-categories" onclick="window.location.href='kindergarten-six-yo.php'">
        | 6 Years Old
    </div>
</div>

</body>
</html>
```

A "Back" button that takes visitors back to the homepage is created by this code, which also produces a website area for exploring among categories. A container with clickable sections for various age groups (3 to 6 years old) and a title entitled "Kindergarten" are shown. Users may easily navigate quizzes or material by age group using the onclick event handlers on each category button, which route them to sites specifically designed for that group.

Same function code explanation as the above

Primary school

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'>
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'>
            
            <div>History</div>
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'>
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'>
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
} else {
}
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'>
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'my-quizzesPage.php\\\'>
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\\'add-quizzes.php\\\'>
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'>
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'>
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';
    
```

```
?>
<button class="back-btn" onclick="window.location.href='mainPage.php'">Back</button>

<div class="primaryschool-categories-title">
    Primary School
</div>
<div class="primaryschool-categories-container">
    <div class="primaryschool-categories" onclick="window.location.href='primaryschool-standardone.php'">
        | Standard 1
    </div>
    <div class="primaryschool-categories" onclick="window.location.href='primaryschool-standardtwo.php'">
        | Standard 2
    </div>
    <div class="primaryschool-categories" onclick="window.location.href='primaryschool-standardthree.php'">
        | Standard 3
    </div>
    <div class="primaryschool-categories" onclick="window.location.href='primaryschool-standardfour.php'">
        | Standard 4
    </div>
    <div class="primaryschool-categories" onclick="window.location.href='primaryschool-standardfive.php'">
        | Standard 5
    </div>
    <div class="primaryschool-categories" onclick="window.location.href='primaryschool-standardsix.php'">
        | Standard 6
    </div>
</div>

</body>
</html>
```

secondary school

```
</head>
<body>
<?php
    if ($row['user_role'] == "Student"){
        echo '<div id="sidebar">
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
                
                <div>History</div>
            </div>
        </div>
        <div id="header">
            <div class="left-header">
                
            </div>
            <div class="middle-header">
                <form method="post" class="search-form">
                    <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                    <button class="search-btn" name="search-btn">
                        
                        <div class="search-tip">Search</div>
                    </button>
                </form>
            </div>
            <div class="right-header">
                <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
                    
                    <div class="notification-tip">Notifications</div>
                </button>
                <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
                    
                    <div class="profile-tip">Profile</div>
                </button>
            </div>
        </div>';
    } else {

```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
        <div id="header">
            <div class="left-header">
                
            </div>
            <div class="middle-header">
                <form method="post" class="search-form">
                    <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                    <button class="search-btn" name="search-btn">
                        
                        <div class="search-tip">Search</div>
                    </button>
                </form>
            </div>
            <div class="right-header">
                <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                    
                    <div class="notification-tip">Notifications</div>
                </button>
                <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                    
                    <div class="profile-tip">Profile</div>
                </button>
            </div>
        </div>';
    }
}
```

```
?>
<button class="back-btn" onclick="window.location.href='mainPage.php'">Back</button>

<div class="secondaryschool-categories-title">
| Secondary School
</div>
<div class="secondaryschool-categories-container">
<div class="secondaryschool-categories" onclick="window.location.href='secondaryschool-formone.php'">
| Form 1
</div>
<div class="secondaryschool-categories" onclick="window.location.href='secondaryschool-formtwo.php'">
| Form 2
</div>
<div class="secondaryschool-categories" onclick="window.location.href='secondaryschool-formthree.php'">
| Form 3
</div>
<div class="secondaryschool-categories" onclick="window.location.href='secondaryschool-formfour.php'">
| Form 4
</div>
<div class="secondaryschool-categories" onclick="window.location.href='secondaryschool-formfive.php'">
| Form 5
</div>
</div>

</body>
</html>
```

Uni

```
</head>
<body>
<?php
    if ($row['user_role'] == "Student"){
        echo '<div id="sidebar">
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
                
                <div>History</div>
            </div>
        </div>
        </div>

        <div id="header">
            <div class="left-header">
                
            </div>
            <div class="middle-header">
                <form method="post" class="search-form">
                    <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                    <button class="search-btn" name="search-btn">
                        
                        <div class="search-tip">Search</div>
                    </button>
                </form>
            </div>
            <div class="right-header">
                <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
                    
                    <div class="notification-tip">Notifications</div>
                </button>
                <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
                    
                    <div class="profile-tip">Profile</div>
                </button>
            </div>
        </div>';
    }
}
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
        <div id="header">
            <div class="left-header">
                
            </div>
            <div class="middle-header">
                <form method="post" class="search-form">
                    <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                    <button class="search-btn" name="search-btn">
                        
                        <div class="search-tip">Search</div>
                    </button>
                </form>
            </div>
            <div class="right-header">
                <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                    
                    <div class="notification-tip">Notifications</div>
                </button>
                <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                    
                    <div class="profile-tip">Profile</div>
                </button>
            </div>
        </div>';
```

```
    }
?>
<button class="back-btn" onclick="window.location.href='mainPage.php'">Back</button>

<div class="uni-categories-title">
| Pre-University & University
</div>
<div class="uni-categories-container">
    <div class="uni-categories" onclick="window.location.href='uni-preu.php'">
        | A-Level / Foundation / Diploma / STPM
    </div>
    <div class="uni-categories" onclick="window.location.href='uni-degree.php'">
        | Degree
    </div>
    <div class="uni-categories" onclick="window.location.href='uni-master.php'">
        | Master
    </div>
    <div class="uni-categories" onclick="window.location.href='uni-phd.php'">
        | PhD
    </div>
</div>

</body>
</html>
```

Inside categories

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
            
            <div>History</div>
        </div>
    </div>
<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
}
```

```

} else {
    echo '<div id="sidebar">
        <div class="sidebar-buttons-group"></div>
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
            
            <div>My Quizzes</div>
        </div>
        <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
            +
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';

```

By examining the `user_role` value in the `$row` array, this function dynamically produces the layout for a website depending on the user's role. If the user is identified as a "Student," they will see links to the home page and history page on the sidebar. In the header area, you will see a search form, buttons for alerts, and profile access. Admins and instructors, among others, may access the main page, a "My Quizzes" page, and the possibility to create new quizzes via the sidebar. There is a shared header for searches, alerts, and profile access in both layouts. This method offers a tailored navigation experience by ensuring that information and functionality vary according to the user's role.

```

?>
<button class="back-btn" onclick="window.location.href='kindergarten-categories.php'">Back</button>

<div class="quizzes-categories-title">
  5 Years Old
</div>
<div class="content-container">
  <?php
    // Ensure the database connection is included
    include("conn.php");

    // Replace the SQL query to filter by category
    $sql = "SELECT * FROM quizzes WHERE quiz_category='K5'";
    $result = mysqli_query($con, $sql);

    $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
    $result_role = mysqli_query($con, $sql_role);
    $row_role = mysqli_fetch_array($result_role);

    // Check if there are any results
    if (mysqli_num_rows($result) > 0) {
      while ($row = mysqli_fetch_array($result)) {
        echo '<div class="quiz-container">';
        echo '  <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
        // Check if user_role is Student
        if ($row_role['user_role'] == "Student") {
          echo '  <button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">';
          echo '    Start Quiz
          </button>';
        }
        echo '</div>';
      }
    } else {
      echo '<p>This category is empty.</p>';
    }
  ?>
</div>
</body>
</html>

```

The "5 Years Old" category of quizzes may be seen on the homepage that this code creates. A "Back" button takes you back to the page with all the kindergarten-related categories. The script establishes a connection to a database and gets quizzes from the "quizzes" table, namely those categorized as 'K5' (meaning category for children aged 5). In order to verify whether the user is a "Student," it also examines their role by searching the registration database. Students may access the quizzes by clicking the "Start Quiz" button that appears for each one. An error message reading "This category is empty." will be shown if this category does not have any quizzes. Content on the page is dynamically changed according on user roles and the availability of quizzes.

Same function code as the above

Kindergarten 3 year old

```
</head>
<body>
<?php
    if ($row['user_role'] == "Student"){
        echo '<div id="sidebar">
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
                
                <div>History</div>
            </div>
        </div>
        <div id="header">
            <div class="left-header">
                
            </div>
            <div class="middle-header">
                <form method="post" class="search-form">
                    <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                    <button class="search-btn" name="search-btn">
                        
                        <div class="search-tip">Search</div>
                    </button>
                </form>
            </div>
            <div class="right-header">
                <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
                    
                    <div class="notification-tip">Notifications</div>
                </button>
                <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
                    
                    <div class="profile-tip">Profile</div>
                </button>
            </div>
        </div>';
    }
}
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'>
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'my-quizzesPage.php\\\'>
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\\'add-quizzes.php\\\'>
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'>
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'>
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

```
    }
    ?>
<button class="back-btn" onclick="window.location.href='kindergarten-categories.php'">Back</button>

<div class="quizzes-categories-title">
  3 Years Old
</div>
<div class="content-container">
  <?php
  // Ensure the database connection is included
  include("conn.php");

  // Replace the SQL query to filter by category
  $sql = "SELECT * FROM quizzes WHERE quiz_category='K3'";
  $result = mysqli_query($con, $sql);

  $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
  $result_role = mysqli_query($con, $sql_role);
  $row_role = mysqli_fetch_array($result_role);

  // Check if there are any results
  if (mysqli_num_rows($result) > 0) {
    while ($row = mysqli_fetch_array($result)) {
      echo '<div class="quiz-container">';
      |   <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
      // Check if user_role is Student
      if ($row_role['user_role'] == "Student") {
        echo '  <button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">';
        |    Start Quiz
        |  </button>';
      }
      echo '</div>';
    }
  } else {
    echo '<p>This category is empty.</p>';
  }
  ?>
</div>
</body>
</html>
```

Kindergarten 5 year old

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
echo '<div id="sidebar">
    <div class="hamburger-icon">
        
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
        
        <div>Home</div>
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
        
        <div>History</div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
}
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

```
        }
    ?>
<button class="back-btn" onclick="window.location.href='kindergarten-categories.php'">Back</button>

<div class="quizzes-categories-title">
    4 Years Old
</div>
<div class="content-container">
    <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_category='K4'";
        $result = mysqli_query($con, $sql);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

        // Check if there are any results
        if (mysqli_num_rows($result) > 0) {
            while ($row = mysqli_fetch_array($result)) {
                echo '<div class="quiz-container">
                    <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
                // Check if user_role is Student
                if ($row_role['user_role'] == "Student") {
                    echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\\'>
                        Start Quiz
                    </button>';
                }
                echo '</div>';
            }
        } else {
            echo '<p>This category is empty.</p>';
        }
    ?>
</div>
</body>
</html>
```

Kindergarten 6 year old

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
echo '<div id="sidebar">
    <div class="hamburger-icon">
        
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
        
        <div>Home</div>
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
        
        <div>History</div>
    </div>
</div>
<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'my-quizzesPage.php\\\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\\'add-quizzes.php\\\'">
                +
            </div>
        </div>
        <div id="header">
            <div class="left-header">
                
            </div>
            <div class="middle-header">
                <form method="post" class="search-form">
                    <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                    <button class="search-btn" name="search-btn">
                        
                        <div class="search-tip">Search</div>
                    </button>
                </form>
            </div>
            <div class="right-header">
                <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
                    
                    <div class="notification-tip">Notifications</div>
                </button>
                <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
                    
                    <div class="profile-tip">Profile</div>
                </button>
            </div>
        </div>';
    }
}
```

```
        }
    ?>
<button class="back-btn" onclick="window.location.href='kindergarten-categories.php'">Back</button>

<div class="quizzes-categories-title">
    6 Years Old
</div>
<div class="content-container">
    <?php
    // Ensure the database connection is included
    include("conn.php");

    // Replace the SQL query to filter by category
    $sql = "SELECT * FROM quizzes WHERE quiz_category='K6'";
    $result = mysqli_query($con, $sql);

    $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
    $result_role = mysqli_query($con, $sql_role);
    $row_role = mysqli_fetch_array($result_role);

    // Check if there are any results
    if (mysqli_num_rows($result) > 0) {
        while ($row = mysqli_fetch_array($result)) {
            echo '<div class="quiz-container">';
            echo '    <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
            // Check if user_role is Student
            if ($row['user_role'] == "Student") {
                echo '        <button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">';
                echo '            Start Quiz
                </button>';
            }
            echo '</div>';
        }
    } else {
        echo '<p>This category is empty.</p>';
    }
    ?>
</div>
</body>
</html>
```

Primary school standard 1

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
            
            <div>History</div>
        </div>
    </div>
<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

```
    }
?>
<button class="back-btn" onclick="window.location.href='primarySchool-categories.php'">Back</button>
<div class="quizzes-categories-title">
    Standard 1
</div>
<div class="content-container">
    <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_category='PS1'";
        $result = mysqli_query($con, $sql);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

        // Check if there are any results
        if (mysqli_num_rows($result) > 0) {
            while ($row = mysqli_fetch_array($result)) {
                echo '<div class="quiz-container">
                    | | | <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
                // Check if user_role is Student
                if ($row_role['user_role'] == "Student") {
                    echo '    <button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\''>
                        | | | Start Quiz
                    </button>';
                }
                echo '</div>';
            }
        } else {
            echo '<p>This category is empty.</p>';
        }
    ?>
</div>
</body>
</html>
```

Primary school standard 2

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
            
            <div>History</div>
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
            <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
            <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

```
        }
    ?>
<button class="back-btn" onclick="window.location.href='primarySchool-categories.php'">Back</button>

<div class="quizzes-categories-title">
    Standard 2
</div>
<div class="content-container">
    <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_category='PS2'";
        $result = mysqli_query($con, $sql);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

        // Check if there are any results
        if (mysqli_num_rows($result) > 0) {
            while ($row = mysqli_fetch_array($result)) {
                echo '<div class="quiz-container">';
                |   <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
                // Check if user_role is Student
                if ($row['user_role'] == "Student") {
                    echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">';
                    |   Start Quiz
                    |   </button>';
                }
                echo '</div>';
            }
        } else {
            echo '<p>This category is empty.</p>';
        }
    ?>
</div>
</body>
</html>
```

secondary school standard 3

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
            
            <div>History</div>
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

```
    }
?>
<button class="back-btn" onclick="window.location.href='primarySchool-categories.php'">Back</button>

<div class="quizzes-categories-title">
| Standard 3
</div>
<div class="content-container">
| <?php
| // Ensure the database connection is included
| include("conn.php");

| // Replace the SQL query to filter by category
$SQL = "SELECT * FROM quizzes WHERE quiz_category='PS3'";
$result = mysqli_query($con, $SQL);

$SQL_ROLE = "SELECT user_role FROM register WHERE userid = $userid";
$result_ROLE = mysqli_query($con, $SQL_ROLE);
$row_ROLE = mysqli_fetch_array($result_ROLE);

| // Check if there are any results
if (mysqli_num_rows($result) > 0) {
    while ($row = mysqli_fetch_array($result)) {
        echo '<div class="quiz-container">';
        | <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
        // Check if user_role is Student
        if ($row_ROLE['user_role'] == "Student") {
            echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">';
            | Start Quiz
            </button>';
        }
        echo '</div>';
    }
} else {
    echo '<p>This category is empty.</p>';
}
?>
</div>
</body>
</html>
```

primary school standard 4

```
</head>
<body>
<?php
    if ($row['user_role'] == "Student"){
        echo '<div id="sidebar">
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
                
                <div>History</div>
            </div>
        </div>
        <div id="header">
            <div class="left-header">
                
            </div>
            <div class="middle-header">
                <form method="post" class="search-form">
                    <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                    <button class="search-btn" name="search-btn">
                        
                        <div class="search-tip">Search</div>
                    </button>
                </form>
            </div>
            <div class="right-header">
                <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
                    
                    <div class="notification-tip">Notifications</div>
                </button>
                <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
                    
                    <div class="profile-tip">Profile</div>
                </button>
            </div>
        </div>';
    }
}
```

```
 } else {
    echo '<div id="sidebar">
        <div class="sidebar-buttons-group"></div>
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'>
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'my-quizzesPage.php\\\'>
            
            <div>My Quizzes</div>
        </div>
        <div class="add-quizzes" onclick="window.location.href=\\'add-quizzes.php\\\'>
            +
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'>
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'>
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
        }
    ?>
<button class="back-btn" onclick="window.location.href='primarySchool-categories.php'">Back</button>

<div class="quizzes-categories-title">
    Standard 4
</div>
<div class="content-container">
    <?php
    // Ensure the database connection is included
    include("conn.php");

    // Replace the SQL query to filter by category
    $sql = "SELECT * FROM quizzes WHERE quiz_category='PS4'";
    $result = mysqli_query($con, $sql);

    $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
    $result_role = mysqli_query($con, $sql_role);
    $row_role = mysqli_fetch_array($result_role);

    // Check if there are any results
    if (mysqli_num_rows($result) > 0) {
        while ($row = mysqli_fetch_array($result)) {
            echo '<div class="quiz-container">
                    <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
            // Check if user_role is Student
            if ($row_role['user_role'] == "Student") {
                echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
                        Start Quiz
                    </button>';
            }
            echo '</div>';
        }
    } else {
        echo '<p>This category is empty.</p>';
    }
    ?>
</div>
</body>
</html>
```

primary school standard 5

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
echo '<div id="sidebar">
    <div class="hamburger-icon">
        
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'>
        
        <div>Home</div>
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'>
        
        <div>History</div>
    </div>
</div>
<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'>
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'>
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

```
    }
?>
<button class="back-btn" onclick="window.location.href='primarySchool-categories.php'">Back</button>

<div class="quizzes-categories-title">
    Standard 5
</div>
<div class="content-container">
    <?php
    // Ensure the database connection is included
    include("conn.php");

    // Replace the SQL query to filter by category
    $sql = "SELECT * FROM quizzes WHERE quiz_category='PS5'";
    $result = mysqli_query($con, $sql);

    $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
    $result_role = mysqli_query($con, $sql_role);
    $row_role = mysqli_fetch_array($result_role);

    // Check if there are any results
    if (mysqli_num_rows($result) > 0) {
        while ($row = mysqli_fetch_array($result)) {
            echo '<div class="quiz-container">' . htmlspecialchars($row["quiz_name"]) . '</div>';
            // Check if user_role is Student
            if ($row_role['user_role'] == "Student") {
                echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">' . Start Quiz . '</button>';
            }
            echo '</div>';
        }
    } else {
        echo '<p>This category is empty.</p>';
    }
?>
</div>
</body>
</html>
```

primary school standard 6

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
echo '<div id="sidebar">
    <div class="hamburger-icon">
        
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
        
        <div>Home</div>
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
        
        <div>History</div>
    </div>
</div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

```
    }
}

<button class="back-btn" onclick="window.location.href='primarySchool-categories.php'">Back</button>

<div class="quizzes-categories-title">
    Standard 6
</div>
<div class="content-container">
    <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_category='PS6'";
        $result = mysqli_query($con, $sql);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

        // Check if there are any results
        if (mysqli_num_rows($result) > 0) {
            while ($row = mysqli_fetch_array($result)) {
                echo '<div class="quiz-container">' . htmlspecialchars($row["quiz_name"]) . '</div>';
                // Check if user_role is Student
                if ($row['user_role'] == "Student") {
                    echo '    <button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">' . 
                        '        Start Quiz
                        </button>';
                }
                echo '</div>';
            }
        } else {
            echo '<p>This category is empty.</p>';
        }
    >>
</div>
</body>
</html>
```

Secondary school form 1

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
echo '<div id="sidebar">
    <div class="hamburger-icon">
        
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
        
        <div>Home</div>
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
        
        <div>History</div>
    </div>
</div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
}
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'>
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'my-quizzesPage.php\\\'>
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\\'add-quizzes.php\\\'>
                +
            </div>
        </div>

        <div id="header">
            <div class="left-header">
                
            </div>
            <div class="middle-header">
                <form method="post" class="search-form">
                    <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                    <button class="search-btn" name="search-btn">
                        
                        <div class="search-tip">Search</div>
                    </button>
                </form>
            </div>
            <div class="right-header">
                <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'>
                    
                    <div class="notification-tip">Notifications</div>
                </button>
                <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'>
                    
                    <div class="profile-tip">Profile</div>
                </button>
            </div>
        </div>';
    }
}
```

```
    }
?>
<button class="back-btn" onclick="window.location.href='secondarySchool-categories.php'">Back</button>

<div class="quizzes-categories-title">
    Form 1
</div>
<div class="content-container">
    <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_category='SS1'";
        $result = mysqli_query($con, $sql);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

        // Check if there are any results
        if (mysqli_num_rows($result) > 0) {
            while ($row = mysqli_fetch_array($result)) {
                echo '<div class="quiz-container">';
                |   |   <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
                // Check if user_role is Student
                if ($row_role['user_role'] == "Student") {
                    echo '    <button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">';
                    |           Start Quiz
                    |           </button>';
                }
                echo '</div>';
            }
        } else {
            echo '<p>This category is empty.</p>';
        }
    ?>
</div>
</body>
</html>
```

secondary school form 2

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'>
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'>
            
            <div>History</div>
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'>
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'>
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'>
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'my-quizzesPage.php\\\'>
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\\'add-quizzes.php\\\'>
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'>
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'>
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

```
    }
?>
<button class="back-btn" onclick="window.location.href='secondarySchool-categories.php'">Back</button>

<div class="quizzes-categories-title">
    Form 2
</div>
<div class="content-container">
    <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_category='SS2'";
        $result = mysqli_query($con, $sql);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

        // Check if there are any results
        if (mysqli_num_rows($result) > 0) {
            while ($row = mysqli_fetch_array($result)) {
                echo '<div class="quiz-container">' . htmlspecialchars($row["quiz_name"]) . '</div>';
                // Check if user_role is Student
                if ($row['user_role'] == "Student") {
                    echo '    <button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\''>
                        Start Quiz
                    </button>';
                }
                echo '</div>';
            }
        } else {
            echo '<p>This category is empty.</p>';
        }
    <?>
</div>
</body>
</html>
```

secondary school form 3

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'>
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'>
            
            <div>History</div>
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'>
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'>
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>
```

```
    }
?>
<button class="back-btn" onclick="window.location.href='secondarySchool-categories.php'">Back</button>

<div class="quizzes-categories-title">
  Form 3
</div>
<div class="content-container">
  <?php
  // Ensure the database connection is included
  include("conn.php");

  // Replace the SQL query to filter by category
  $sql = "SELECT * FROM quizzes WHERE quiz_category='SS3'";
  $result = mysqli_query($con, $sql);

  $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
  $result_role = mysqli_query($con, $sql_role);
  $row_role = mysqli_fetch_array($result_role);

  // Check if there are any results
  if (mysqli_num_rows($result) > 0) {
    while ($row = mysqli_fetch_array($result)) {
      echo '<div class="quiz-containner">
          | <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
      // Check if user_role is Student
      if ($row_role['user_role'] == "Student") {
        echo '  <button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
            | Start Quiz
          </button>';
      }
      echo '</div>';
    }
  } else {
    echo '<p>This category is empty.</p>';
  }
  ?>
</div>
</body>
</html>
```

secondary school form 4

```
</head>
<body>
<?php
    if ($row['user_role'] == "Student"){
        echo '<div id="sidebar">
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
                
                <div>History</div>
            </div>
        </div>
        <div id="header">
            <div class="left-header">
                
            </div>
            <div class="middle-header">
                <form method="post" class="search-form">
                    <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                    <button class="search-btn" name="search-btn">
                        
                        <div class="search-tip">Search</div>
                    </button>
                </form>
            </div>
            <div class="right-header">
                <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
                    
                    <div class="notification-tip">Notifications</div>
                </button>
                <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
                    
                    <div class="profile-tip">Profile</div>
                </button>
            </div>
        </div>';
    }
}
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

```
        }
    ?>
<button class="back-btn" onclick="window.location.href='secondarySchool-categories.php'">Back</button>

<div class="quizzes-categories-title">
    Form 4
</div>
<div class="content-container">
    <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_category='SS4'";
        $result = mysqli_query($con, $sql);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

        // Check if there are any results
        if (mysqli_num_rows($result) > 0) {
            while ($row = mysqli_fetch_array($result)) {
                echo '<div class="quiz-container">' . htmlspecialchars($row["quiz_name"]) . '</div>';
                // Check if user_role is Student
                if ($row_role['user_role'] == "Student") {
                    echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\''>Start Quiz</button>';
                }
                echo '</div>';
            }
        } else {
            echo '<p>This category is empty.</p>';
        }
    ?>
</div>
</body>
</html>
```

secondary school form 5

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
echo '<div id="sidebar">
    <div class="hamburger-icon">
        
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
        
        <div>Home</div>
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
        
        <div>History</div>
    </div>
</div>
<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
 } else {
    echo '<div id="sidebar">
        <div class="sidebar-buttons-group"></div>
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
            
            <div>My Quizzes</div>
        </div>
        <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
            +
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
        }
    ?>
<button class="back-btn" onclick="window.location.href='secondarySchool-categories.php'">Back</button>

<div class="quizzes-categories-title">
    Form 5
</div>
<div class="content-container">
    <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_category='SS5'";
        $result = mysqli_query($con, $sql);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

        // Check if there are any results
        if (mysqli_num_rows($result) > 0) {
            while ($row = mysqli_fetch_array($result)) {
                echo '<div class="quiz-container">' . htmlspecialchars($row["quiz_name"]) . '</div>';
                // Check if user_role is Student
                if ($row_role['user_role'] == "Student") {
                    echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">Start Quiz</button>';
                }
                echo '</div>';
            }
        } else {
            echo '<p>This category is empty.</p>';
        }
    ?>
</div>
</body>
</html>
```

Uni pre-u

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
echo '<div id="sidebar">
    <div class="hamburger-icon">
        
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
        
        <div>Home</div>
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\'historyPage.php\'">
        
        <div>History</div>
    </div>
</div>
<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

```
    }
    ?>
<button class="back-btn" onclick="window.location.href='uni-categories.php'">Back</button>
<div class="quizzes-categories-title">
    A-Level / Foundation / Diploma / STPM
</div>
<div class="content-container">
    <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_category='U1'";
        $result = mysqli_query($con, $sql);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

        // Check if there are any results
        if (mysqli_num_rows($result) > 0) {
            while ($row = mysqli_fetch_array($result)) {
                echo '<div class="quiz-container">';
                |   |   <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
                // Check if user_role is Student
                if ($row_role['user_role'] == "Student") {
                    echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">';
                    |           Start Quiz
                    |           </button>';
                }
                echo '</div>';
            }
        } else {
            echo '<p>This category is empty.</p>';
        }
    ?>
</div>
</body>
</html>
```

Uni degree

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
echo '<div id="sidebar">
    <div class="hamburger-icon">
        
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
        
        <div>Home</div>
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\'historyPage.php\'">
        
        <div>History</div>
    </div>
</div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
}
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

```
        }
    ?>
<button class="back-btn" onclick="window.location.href='uni-categories.php'">Back</button>

<div class="quizzes-categories-title">
    Degree
</div>
<div class="content-container">
    <?php
    // Ensure the database connection is included
    include("conn.php");

    // Replace the SQL query to filter by category
    $sql = "SELECT * FROM quizzes WHERE quiz_category='U2'";
    $result = mysqli_query($con, $sql);

    $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
    $result_role = mysqli_query($con, $sql_role);
    $row_role = mysqli_fetch_array($result_role);

    // Check if there are any results
    if (mysqli_num_rows($result) > 0) {
        while ($row = mysqli_fetch_array($result)) {
            echo '<div class="quiz-container">';
            |   <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
            // Check if user_role is Student
            if ($row['user_role'] == "Student") {
                echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\\'>';
                |   Start Quiz
                |   </button>';
            }
            echo '</div>';
        }
    } else {
        echo '<p>This category is empty.</p>';
    }
    ?>
</div>
</body>
</html>
```

Uni master

```
</head>
<body>
<?php
if ($row['user_role'] == "Student"){
echo '<div id="sidebar">
    <div class="hamburger-icon">
        
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
        
        <div>Home</div>
    </div>
    <div type="button" class="sidebar-buttons" onclick="window.location.href=\'historyPage.php\'">
        
        <div>History</div>
    </div>
</div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>';
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';

```

```
    }
    >>
<button class="back-btn" onclick="window.location.href='uni-categories.php'">Back</button>

<div class="quizzes-categories-title">
    Master
</div>
<div class="content-container">
    <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_category='U3'";
        $result = mysqli_query($con, $sql);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

        // Check if there are any results
        if (mysqli_num_rows($result) > 0) {
            while ($row = mysqli_fetch_array($result)) {
                echo '<div class="quiz-container">' . 
                    '<div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
                // Check if user_role is Student
                if ($row['user_role'] == "Student") {
                    echo '    <button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">' .
                        '        Start Quiz
                        </button>';
                }
                echo '</div>';
            }
        } else {
            echo '<p>This category is empty.</p>';
        }
    >>
</div>
</body>
</html>
```

Uni phd

```
</head>
<body>
<?php
    if ($row['user_role'] == "Student"){
        echo '<div id="sidebar">
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'mainPage.php\\\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\\'historyPage.php\\\'">
                
                <div>History</div>
            </div>
        </div>
        <div id="header">
            <div class="left-header">
                
            </div>
            <div class="middle-header">
                <form method="post" class="search-form">
                    <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                    <button class="search-btn" name="search-btn">
                        
                        <div class="search-tip">Search</div>
                    </button>
                </form>
            </div>
            <div class="right-header">
                <button class="notification-btn" onclick="window.location.href=\\'notificationsPage.php\\\'">
                    
                    <div class="notification-tip">Notifications</div>
                </button>
                <button class="profile-btn" onclick="window.location.href=\\'profilePage.php\\\'">
                    
                    <div class="profile-tip">Profile</div>
                </button>
            </div>
        </div>';
    }
}
```

```
    } else {
        echo '<div id="sidebar">
            <div class="sidebar-buttons-group"></div>
            <div class="hamburger-icon">
                
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
                
                <div>Home</div>
            </div>
            <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
                
                <div>My Quizzes</div>
            </div>
            <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
                +
            </div>
        </div>
    </div>

    <div id="header">
        <div class="left-header">
            
        </div>
        <div class="middle-header">
            <form method="post" class="search-form">
                <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
                <button class="search-btn" name="search-btn">
                    
                    <div class="search-tip">Search</div>
                </button>
            </form>
        </div>
        <div class="right-header">
            <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">
                
                <div class="notification-tip">Notifications</div>
            </button>
            <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
                
                <div class="profile-tip">Profile</div>
            </button>
        </div>
    </div>';
    }
}
```

```
?>
<button class="back-btn" onclick="window.location.href='uni-categories.php'">Back</button>

<div class="quizzes-categories-title">
    PhD
</div>
<div class="content-container">
    <?php
        // Ensure the database connection is included
        include("conn.php");

        // Replace the SQL query to filter by category
        $sql = "SELECT * FROM quizzes WHERE quiz_category='U4'";
        $result = mysqli_query($con, $sql);

        $sql_role = "SELECT user_role FROM register WHERE userid = $userid";
        $result_role = mysqli_query($con, $sql_role);
        $row_role = mysqli_fetch_array($result_role);

        // Check if there are any results
        if (mysqli_num_rows($result) > 0) {
            while ($row = mysqli_fetch_array($result)) {
                echo '<div class="quiz-container">
                    | <div class="q-name">' . htmlspecialchars($row["quiz_name"]) . '</div>';
                // Check if user_role is Student
                if ($row_role['user_role'] == "Student") {
                    echo '<button class="start-quiz-button" onclick="window.location.href=\\'quizzesPage.php?quiz_id=' . $row['quiz_id'] . '\'">
                        | Start Quiz
                    </button>';
                }
                echo '</div>';
            }
        } else {
            echo '<p>This category is empty.</p>';
        }
    ?>
</div>
</body>
</html>
```

4.5 Chek Ka Nic (TP074894)

profilePage.php

```
<?php
session_start();

if (!isset($_SESSION['userid'])) {
    echo "<script>alert('Please login!'); window.location.href='loginPage.php';</script>";
    exit();
}

include("conn.php");

$userid = mysqli_real_escape_string($con, $_SESSION['userid']);

$sql = "SELECT * FROM register WHERE userid = '$userid'";
$result = mysqli_query($con, $sql);

if (mysqli_num_rows($result) > 0) {
    $row = mysqli_fetch_assoc($result);
    // Display user details, e.g., echo $row['column_name'];
} else {
    echo "<script>alert('User details not found!'); window.location.href='loginPage.php';</script>";
    exit();
}

if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $search = $_POST['search'];

    header("Location: searchPage.php?quiz_id=$search");
    exit();
}

mysqli_close($con);
?>
```

At the beginning of the code, the system will start a session to access user data stored in the session. It checks if the userid is set in the session. If not, the user is redirected to the login page with an alert message. Next, the system will initiate the connection with database server. Then, the system will display the fetched user data from register table for the corresponding userid. If no user is found, the script shows an alert and redirects the user to the login page. After that, the system also provides a search functionality based on the provided quiz id

```

<?php
if ($row['user_role'] == "Student"){
    echo '<div id="sidebar">
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\'historyPage.php\'">
            
            <div>History</div>
        </div>
    </div>
</div>

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href=\'notificationsPage.php\'">

```

```

            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href=\'profilePage.php\'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
};

} else {
    echo '<div id="sidebar">
        <div class="sidebar-buttons-group"></div>
        <div class="hamburger-icon">
            
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\'mainPage.php\'">
            
            <div>Home</div>
        </div>
        <div type="button" class="sidebar-buttons" onclick="window.location.href=\'my-quizzesPage.php\'">
            
            <div>My Quizzes</div>
        </div>
        <div class="add-quizzes" onclick="window.location.href=\'add-quizzes.php\'">
            +
        </div>
    </div>
';
}

```

```

<div id="header">
    <div class="left-header">
        
    </div>
    <div class="middle-header">
        <form method="post" class="search-form">
            <input class="searchbar" type="text" name="search" placeholder="Enter Quiz Code">
            <button class="search-btn" name="search-btn">
                
                <div class="search-tip">Search</div>
            </button>
        </form>
    </div>
    <div class="right-header">
        <button class="notification-btn" onclick="window.location.href='notificationsPage.php'">
            
            <div class="notification-tip">Notifications</div>
        </button>
        <button class="profile-btn" onclick="window.location.href='profilePage.php'">
            
            <div class="profile-tip">Profile</div>
        </button>
    </div>
</div>
?>
}

```

This snippet will generate a navigation sidebar and header section for student and lecture responsively. Both users will have similar function such as notification button, profile button and home button in the hamburger menu. However, student will have additional history button to view the user's quiz history where teachers or lecturer will have My Quizzes button and Add Quizzes button to view and add quizzes.

Logout.php

```
<?php
session_start();
session_destroy(); // Destroy all session data
echo "<script>alert('You have logged out.');" window.location.href='loginPage.php';</script>";
?>
```

This snippet simply terminate the sessions and allow user to log out the system and redirect them to login page.

Admin.php

```
<body>
  <div class="function-container">
    <div class="function" onclick="window.location.href='viewAllUsersPage.php'">View All Users</div>
    <div class="function" onclick="window.location.href='viewAllQuizzesPage.php'">View All Quizzes</div>
  </div>
  <button class="log-out-btn" onclick="window.location.href='logout.php'">Log Out</button>
</body>
```

This code snippet indicates that the admin have the authority to view all users (include students and teachers) and view all quizzes. Finally, the admin can decide to log out.

ViewAllQuizzesPage.php

```
<?php
$sql = "SELECT * FROM quizzes JOIN register ON quizzes.creator_id = register.userid";
$result = mysqli_query($con, $sql);
echo '<div class="content-container">';
if (mysqli_num_rows($result) > 0) {
    while ($row = mysqli_fetch_array($result)) {
        echo '<div class="quizzes-container">
            <div class="quiz-info">Quiz ID: ' . $row["quiz_id"] . '</div>
            <div class="quiz-info">Quiz Name: ' . $row["quiz_name"] . '</div>
            <div class="quiz-info">Quiz Category: ' . $row["quiz_category"] . '</div>
            <div class="quiz-info">Created By: ' . $row["user_name"] . '</div>
            <form method="POST">
                <input type="hidden" name="quiz_to_delete" value="' . $row['quiz_id'] . '">
                <button class="delete-quiz-button" name="delete">
                    Delete Quiz
                </button>
            </form>';
        echo '</div>';
    }
} else {
    echo '<p>There is no record of quizzes.</p>';
}
echo '</div>';

if (isset($_POST['delete'])) {
    $quiz_to_delete = mysqli_real_escape_string($con, $_POST['quiz_to_delete']);
    $sql_delete = "DELETE FROM quizzes WHERE quiz_id = '$quiz_to_delete'";
    if (mysqli_query($con, $sql_delete)) {
        echo "<script>alert('Quiz deleted successfully!'); window.location.href='viewAllQuizzesPage.php';</script>";
    } else {
        echo "<script>alert('Error deleting quiz');</script>";
    }
}
```

This code snippet shows one of the functions for admin, the system will fetch all quizzes and their creators from database server. Admin also able to delete quizzes for the entered quiz id. If there are no quizzes in the database, a message stating "There is no record of quizzes." is displayed to the admin.

viewAllUserPage.php

```
<?php
$sql_student = "SELECT * FROM register WHERE user_role = 'Student'";
$result_student = mysqli_query($con, $sql_student);
echo '<div class="content-container">';
if (mysqli_num_rows($result_student) > 0) {
    while ($row_student = mysqli_fetch_array($result_student)) {
        echo '<div class="profile-container">
            <div class="user-info">ID: ' . $row_student["userid"] . '</div>
            <div class="user-info">Username: ' . $row_student["user_name"] . '</div>
            <div class="user-info">Email: ' . $row_student["user_email"] . '</div>
            <div class="user-info">Gender: ' . $row_student["user_gender"] . '</div>
            <form method="POST">
                <input type="hidden" name="user_to_delete" value=' . $row_student['userid'] . ' ">
                <button class="delete-user-button" name="delete">
                    Delete User
                </button>
            </form>';
        echo '</div>';
    }
} else {
    echo '<p>There is no record of students.</p>';
}
echo '</div>';
if (isset($_POST['delete'])) {
    $user_to_delete = mysqli_real_escape_string($con, $_POST['user_to_delete']);
    $sql_delete = "DELETE FROM register WHERE userid = '$user_to_delete'";
    if (mysqli_query($con, $sql_delete)) {
        echo "<script>alert('User deleted successfully'); window.location.href='viewAllUsersPage.php';</script>";
    } else {
        echo "<script>alert('Error deleting user');</script>";
    }
}
?>
```

```
<p>Teachers</p>
<?php
$sql_teacher = "SELECT * FROM register WHERE user_role = 'Teacher'";
$result_teacher = mysqli_query($con, $sql_teacher);
echo '<div class="content-container">';
if (mysqli_num_rows($result_teacher) > 0) {
    while ($row_teacher = mysqli_fetch_array($result_teacher)) {
        echo '<div class="profile-container">
            <div class="user-info">ID: ' . $row_teacher["userid"] . '</div>
            <div class="user-info">Username: ' . $row_teacher["user_name"] . '</div>
            <div class="user-info">Email: ' . $row_teacher["user_email"] . '</div>
            <div class="user-info">Gender: ' . $row_teacher["user_gender"] . '</div>
            <form method="POST">
                <input type="hidden" name="user_to_delete" value=' . $row_teacher['userid'] . '>
                <button class="delete-user-button" name="delete">
                    Delete User
                </button>
            </form>';
        echo '</div>';
    }
} else {
    echo '<p>There is no record of students.</p>';
}
echo '</div>';
if (isset($_POST['delete'])) {
    $user_to_delete = mysqli_real_escape_string($con, $_POST['user_to_delete']);
    $sql_delete = "DELETE FROM register WHERE userid = '$user_to_delete'";
    if (mysqli_query($con, $sql_delete)) {
        echo "<script>alert('User deleted successfully!'); window.location.href='viewAllUsersPage.php';</script>";
    } else {
        echo "<script>alert('Error deleting user');</script>";
    }
}
?>
```

This code snippet shows another function of admin. Admin can view user details of every student and teacher by fetching it from the database. Admin also have the right to delete user from the system. If there are no users in the database, a message stating "There is no record of students/teachers." is displayed to the admin.

5.0 Conclusion

5.1 Review and Evaluate

We have created a website that allows teachers to manage quizzes and students to answer quizzes. This website includes many categories of quizzes, ranging from Kindergarten (3 years old) to University (PhD). This shows that almost every student in each grade of learning can use this website. Teachers are able to add quizzes with several questions in different categories. They can have four options for students to select and one of them is the correct answer. Teachers can edit the quizzes' details afterwards too. Students can answer the quiz based on their category and their subject. Then, they can see the result of the quizzes attempted. They manage to see the correct answer and explanations of their wrong questions. Admin is the user who can view all other users, delete users, view all quizzes and delete quizzes.

In conclusion, this website is a user-friendly website which is suitable for every student. By using this website, students are available to access every subject they want easily. This will allow them to do practice on the subject they want and make improvements in their studies.

5.2 The Achieved Formulated Objectives

Students:	Achieved
Students have to register for an account and log in to access the platform.	✓
Ability to take quizzes with various question types (multiple choice, subjective exercises).	
View scores after taking a quiz.	✓
Receive instant feedback and explanations when students' answers are wrong.	✓
Able to take quizzes repeatedly.	✓
Teacher/Lecturer:	
Teachers/Lecturers have to log in to access their tools and manage quizzes.	✓
Able to use tools to create and customize quizzes.	✓

Quizzes can be stored and reused.	✓
Automated grading for objective questions.	✓
Able to view statistics of the student's performance.	
Notify students to take quizzes.	
Administrator:	
Administrators have to log in to manage the platform.	✓
Add, remove, and manage user roles and permissions.	✓
Modify and remove quizzes if needed.	✓
Non-functional Requirements	
The web app should be accessible and functional on various devices, including desktops, tablets, and smartphones, ensuring an excellent user experience for students.	✓
Secure login system with role-based access control to protect user data.	✓

5.3 Limitations

1. The number of options in a question is fixed, which is 4.
2. The number of questions in a quiz is fixed, which is 5.
3. Students cannot back to the previous questions in a quiz.
4. Teachers cannot go back to the previous questions while creating a quiz.

6.0 Appendix

Workload Matrix

Group Number: Group 16

Group Leader Name: Mah Zheng Yang

Member Name and Student ID (including Group Leader)	Task Completed				Overall Contribution %
	Documentation	Web App (Client-side)	Web (Server Side)	Database	
Anderson	- Provide and explain code snippets	- Design and implement the UI for login, register, and reset password pages	- Develop the login and user registration function	- Design table 'register', 'questions'	20%
Tey Le					
Tien					
TP076394	- Finalize the design (Flowchart) - Formatting Documentation	- Validates user inputs and provide feedback such as invalid username and password	- Implement back-end code for quiz creating and editing		

Andre Darieus Lim Yann Hunn TP074902	<ul style="list-style-type: none"> - Provide and explain code snippets - Making the introduction and project plan 	<ul style="list-style-type: none"> - Design and implement the UI for add quizzes, view quizzes, and edit quizzes pages - Implement search feature into the web app 	<ul style="list-style-type: none"> - Implement the search engine function for quiz searching 	<ul style="list-style-type: none"> - Design table ‘quizzes’, ‘options’ 	20%
Chek Ka Nic TP074894	<ul style="list-style-type: none"> - Finalize the design (ERD) - Provide and explain code snippets 	<ul style="list-style-type: none"> - Design and implement the UI for main page, select quizzes, and quiz answering pages - Implement auto-grading feature for the web app 	<ul style="list-style-type: none"> - Develop the quiz answering and view result function - Develop the system for answer validation and calculate user result 	<ul style="list-style-type: none"> - Design table ‘options’, ‘submission’ 	20%

Chong Wei Jie TP076546	<ul style="list-style-type: none"> - Provide and explain code snippets - Making the conclusions 	<ul style="list-style-type: none"> - Design and implement the UI for view history, view notification, and personal profile pages - Adding interactive elements into the quiz- answering process 	<ul style="list-style-type: none"> - Develop back-end code for user management and quizzes editing - Implement database to record users results 	<ul style="list-style-type: none"> - Design table ‘register’, ‘quizzes’ 	20%
Mah Zheng Yang TP076666	<ul style="list-style-type: none"> - Provide and explain code snippets - Finalize the design (Data Dictionary) - Formatting Documentation 	<ul style="list-style-type: none"> - Design and implement the UI for admin main page, user manage, and quizzes manage pages - Implement features like adding, editing and 	<ul style="list-style-type: none"> - Implement back-end code for quiz creating and editing -Implement data storage for users information and quizzes detail 	<ul style="list-style-type: none"> - Design table ‘submission’, ‘temp-submission’, ‘questions’ 	20%

		viewing quizzes			
Total					100%

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