KARNATAK LAW SOCIETY'S

GOGTE INSTITUTE OF TECHNOLOGY UDYAMBAG, BELGAVI-590008

(An Autonomous Institution under Visvesvaraya Technological University Belagavi) (APPROVED BY AICTE, NEWDELHI)

Seminar report

Submitted in the partial fulfillment for the academic requirement of

2nd Semester B.E

TOPIC: Quiz Portal

Subject and code: Introduction to Web Programming PLC25

Submitted by

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Quiz Portal

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CERTIFICATE

This is to certify that Aniket Bapat, Sujal Lokari, Madhusudan Desai and Laxman Desai of 2nd semester BE has satisfactorily completed the course activity Project in PLC course of Introduction to web programming(22PLC25A). It can be considered as a bonafide work carried out in partial fulfilment for the academic requirement of 2nd Semester B.E. Information Science and Engineering prescribed by KLS Gogte Institute of Technology, Belagavi during the academic year 2022- 2023.

The report has been approved as it satisfies the academic requirements in respect of Assignment (Course Activity) prescribed for the said Degree.

Signature of the Faculty Member Signature of the HOD

❖ Contents of the Course Project Report:

❖ Abstract:

This project report presents the design, development, and implementation of an interactive quiz portal aimed at enhancing knowledge assessment and user engagement. In the contemporary era of digital education, online learning platforms have gained significant prominence, necessitating the creation of efficient tools for evaluating and reinforcing learning outcomes. The quiz portal described in this report addresses this need by providing an intuitive and accessible platform for users to engage in self-assessment, practice, and knowledge consolidation.

The portal's architecture is based on a client-server model, with a user-friendly web interface serving as the front end and a robust backend handling data management and processing. The design phase involved creating an intuitive and visually appealing user interface, ensuring responsiveness across various devices. The backend was developed to manage user authentication, quiz database management, and real-time scoring.

A comprehensive database of questions was curated to cover a wide range of topics and difficulty levels, ensuring that the portal caters to various educational needs. The quiz portal's user experience was enhanced through features such as timed quizzes, instant feedback on answers, and performance tracking. Furthermore, a well-defined administrator module was integrated to facilitate the management of users, quizzes, and content.

During the implementation phase, various programming languages, frameworks, and technologies were utilized, including HTML, CSS, JavaScript, Django (Python framework), and relational databases. Rigorous testing was conducted to ensure the portal's functionality, security, and scalability.

In conclusion, the development of an interactive quiz portal contributes to the digital education landscape by offering an efficient platform for knowledge assessment and engagement. The project showcases the successful integration of frontend and backend technologies to create a seamless user experience. As online learning continues to evolve, the quiz portal stands as a valuable tool for educators and learners alike, fostering active learning and knowledge retention.

Quiz Portal

❖ Introduction

The provided code represents an engaging and interactive quiz portal, skillfully developed using a combination of HTML, CSS, and JavaScript. In the digital landscape of today, where user engagement and dynamic interfaces are essential, this project stands as a prime example of how web technologies can be harnessed to create immersive experiences. The code implements a quiz platform that not only challenges users' knowledge but also offers them immediate feedback and an intuitive user journey**.**

At its core, the code comprises three main components: the HTML structure, the CSS styling, and the JavaScript functionality. HTML establishes the foundational structure of the portal, structuring elements such as questions, options, scores, and navigation. CSS, on the other hand, imparts visual appeal through well-crafted styles, colors, layouts, and animations, contributing to a cohesive and attractive user interface. JavaScript elevates the portal's interactivity, enabling real-time validation of user responses, dynamic question rendering, score tracking, and the logic for progressing through the quiz.

The combination of these technologies results in a responsive and engaging user experience. The portal's architecture ensures that users can seamlessly navigate through different sections, from the home page to the quiz itself and the results page. The integration of popups provides clear instructions, guiding users on how to start the quiz and presenting their scores at the end.

The code's attention to user-centric design is evident in features like instant feedback. As users interact with the quiz, JavaScript immediately validates their answers and adjusts the visuals accordingly. Correct answers are celebrated with positive cues, while incorrect choices are highlighted for further learning.

❖ Explanation of the Provided HTML Code

The given HTML code represents a quiz portal webpage designed to engage users in interactive quizzes. Here's an overview of the structure and functionality of the code:

1. Document Declaration and Language:

`<!DOCTYPE html>`: Declares the document type and version.

`<html lang="en">`: Specifies the language of the document (English) for accessibility.

2. Head Section:

`<meta charset="UTF-8">`: Defines the character encoding for the document.

`<title>Quiz Portal</title>`: Sets the title displayed in the browser tab.

`<link rel="stylesheet" href="style.css">`: Links an external stylesheet ("style.css") for styling.

3. Main Content:

- `<main class="main">`: Wraps the main content of the page.

4. Header and Navigation:

`<header class="header">`: Contains the header section of the webpage.

`<a href="#" class="logo">QUIZ</a>`: Displays the logo "QUIZ" as a clickable link.

`<nav class="navbar">`: Contains navigation links.

`<a href="#" class="active">HOME</a>`: Links to the home section (active link).

`<a href="presented.html">PRESENTED BY</a>`: Links to a page about the presenters.

`<a href="ct.html">CONTACT</a>`: Links to a contact page.

5. Home Section:

`<section class="home">`: Contains the introduction section of the webpage.

`<div class="home-content">`: Wraps the content of the home section.

`<h1 class="fh1">QUIZ PORTAL</h1>`: Displays the main title of the quiz portal.

`<p>`: Provides a welcome message and instructions for users.

`<button class="start-btn">START QUIZ</button>`: Initiates the quiz when clicked.

6. Popup Box for Instructions:

`<div class="popup">`: Represents a popup box for displaying quiz instructions.

`<h2>INSTRUCTIONS</h2>`: Displays the title for the instructions. - `<span>`: Provides

various instructions about the quiz format and usage.

`<div class="grbtn">`: Contains buttons for actions. - `<button class="infobtn ebtn ">EXIT</button>`: Allows users to exit the instructions popup.

`<a href="page2.html" target="_self" class="infobtn contbtn">CONTINUE</a>`: Links to the

next page (page2.html) to start the quiz

7. JavaScript Integration:

`<script src="script.js"></script>`: Links to an external JavaScript file ("script.js") for dynamic functionality.

❖ CSS Code Explanation:

The CSS code styles the visual presentation of the quiz portal:

- **Global Styling:**

The * selector sets common styles for elements, including font and box-sizing.The background color for **body** is specified as white.

- **Header Styling:**

The **header** is positioned at the top, containing the site logo and navigation.

- **Home Section Styling:**

home section displays the welcome message and button.The button's style changes on hover.

- **Popup Styling:**

The **popup** is positioned at the center of the viewport.It displays instructions with styles for text and buttons.

- **Result Box Styling:**

The **result-box** is positioned at the center for displaying quiz results.

❖ JavaScript Code Explanation:

The JavaScript code, linked in the HTML, manages interactive functionalities:

- **Start Button Event:**

When the "START QUIZ" button is clicked, the popup with instructions becomes visible.

- **Instructions Popup:**

The popup displays instructions about the quiz format and usage.Users can exit the popup or continue to the quiz using the provided buttons.
In summary, the HTML creates the structure, the CSS styles the visual aspects, and the JavaScript adds interactivity to the quiz portal webp

Quiz Portal

Code Snapshots:

1. HTML Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Quiz portal</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <main class="main">
        <header class="header">
          <a href="#" class="logo">QUIZ</a>
          <nav class="navbar">
            <a href="#" class="active">HOME</a>
            <a href="#">USN's</a>
            <a href="#">PRESENTED BY</a>
            <a href="ct.html">CONTACT</a>
          </nav>
        </header>
        <main class="main">
            <div class="container">

                <section class="qs">
                    <div class="qb">
                        <h1 style="font-weight: 400;">CONTACT US</h1>
                        <div class="Quiz-header">
                            <span style="text-decoration: none;font-size: medium;font-weight: 300;">Email:<a style="color: aliceblue;" href="mailto: bapataniket007@gmail
                            <span class="score"></span>
                        </div>
                        <h2 style="font-size: medium; font-weight: 300;">Phone: <a style="color: aliceblue;" href="tel: 9480038158">9480038158</a></h2>
                            <div class="optl">
                                <div class="optoion">
                                    <span></span>
                                </div>
                                <div class="optoion">
                                    <span></span>
                                </div>
                                <div class="optoion">
                                    <span></span>
                                </div>

                                <div class="optoion">
                                    <span></span>
                                </div>
                            </div>
                    </div>
                </section>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Quiz Portal</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <main class="main">
        <header class="header">
          <a href="#" class="logo">QUIZ</a>
          <nav class="navbar">
            <a href="#" class="active">HOME</a>
            <a href="presented.html">PRESENTED BY</a>
            <a href="ct.html">CONTACT</a>
          </nav>
        </header>
      <section class="home">
        <div class="home-content">
          <h1 class="fh1">QUIZ PROTAL</h1>
            <p>
                <h2>CHOOSE ANY 1: </h2>
            </p>
            <a href="page31.html" target="_self"> <button class="start-btn">ENTERTAINTMENT</button></a><br>
            <a href="page32.html"> <button class="start-btn">SPORTS</button></a><br>
            <a href="page33.html"> <button class="start-btn">WEB DEVELOPMENT</button></a>
        </div>
      </section>

    </main>

</body>
</html>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Quiz portal</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <main class="main">
        <div class="container">

            <section class="qs">
                <div class="qb">
                    <h1>QUIZ</h1>
                    <div class="Quiz-header">
                        <span>Entertainment</span>
                        <span class="score">Score: 0 / 5 </span>
                    </div>
                    <h2 class="question-list">WEB DEVELOPMENT QUIZ PLZ CLICK ON NEXT BUTTON </h2>
                        <div class="opt1">
                            <div class="option">
                                <span></span>
                            </div>
                            <div class="option">
                                <span></span>
                            </div>
                            <div class="option">
                                <span></span>
                            </div>

                            <div class="option">
                                <span></span>
                            </div>
                        </div>
                        <div class="qf">
                            <span class="QNO">1 of 5</span>
                            <button class="nxtbtn">Next</button>
                        </div>
                </div>
                <div class="result-box">
                    <h2>QUIZ RESULT</h2>
                    <div class="PER-BOX">
                        <span class="score-text">YOUR SCORE IS 0 OUT OF 5</span>
                    <div class="resbutton">
                    <a href="page31.html" target="_self"><button>try again</button></a>
                    <a href="project.html" target="_self"> <button>home</button> </a>
                </div>
                </div>
            </div>
        </section>
    </div>
</main>
<!-- ** <script src="script.js"></script> -->
```

2. CSS Code:

```css
/* style.css > ... */
@import url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700;800;900&display=swap');

* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Poppins', sans-serif;
}
body {
        color: #fff;
}
.header{
    position:fixed;
    top:0;
    left:0;
    width:100%;
    padding:20px 10%;
    background:transparent;
    display:flex;
    justify-content:space-between;
    align-items:center;
}
.logo{
    font-size:32px;
    color: white;
    text-decoration:none;
    font-weight:500;
}
.navbar a{
    font-size:16px;
    color: white;
    text-decoration:none;
    font-weight:200;
    margin-left:35px;
    transition:0.3s ;
}
.navbar a:hover,
.navbar a.active{
    color: black;
}
.main{
    min-height:100vh;
    background: url('bg4.jpg');
    background-size:cover;
    background-position:center;
    opacity: 1;
    transition: 2s ease ;
```

```css
style.css > ...
            font-size: 50px;
            font-weight: 500;

        }
        .result-box .PER-BOX{
            width: 300px;
            background:transparent;
            display: flex;
            flex-direction: column;
            align-items: center;
            margin: 10px 0 40px;
        }
        .score-text{
            margin-top: 10px;
        }
        .resbutton button{
            border-radius: 15px;
            border: 2px solid black;
            font-size: medium;
            font-weight: 600 ;
            margin: 10px;
            width: 150px;
            height: 50px;
            background-color: white;
            color: rgba(255, 115, 0, 0.702) ;
            cursor: pointer;
            text-align: center;
        }
            .result-box.active{
                align-content: center;
                top: 50%;
                left: 50%;

            opacity: 1;
            cursor: pointer;
            pointer-events: initial;
        }
```

3. JavaScript:

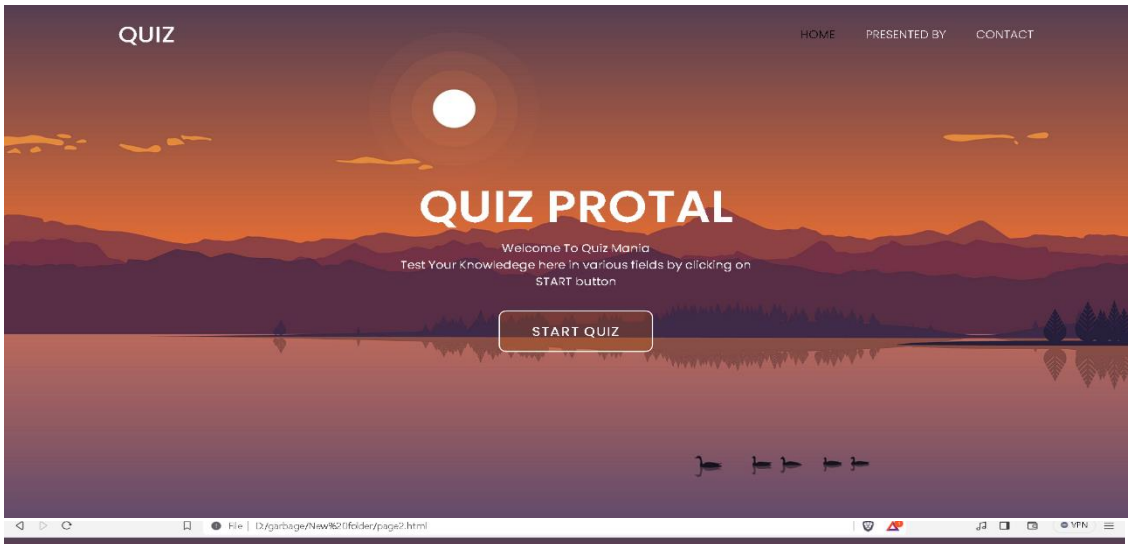
```javascript
let questionCount=0;
let questionNumb=1;
let userScore=0;

const nxtBtn=document.querySelector('.nxtbtn');
    nxtBtn.onclick = () =>{
        if(questionCount<questions.length  ){

        showQuestion(questionCount);
        questionCount++;

        questionCounter(questionNumb);
        questionNumb++;
        }
        else{
            showResult();
        }
    }

optionList=document.querySelector('.optl');
function showQuestion(index){
    const questionText=document.querySelector(".question-list");
    questionText.textContent= `${questions[index].numb} .${questions[index].question}`;

    let optionTag= `<div class="option"><span> ${questions[index].options[0]}</span></div>
    <div class="option"><span> ${questions[index].options[1]}</span></div>
    <div class="option"><span> ${questions[index].options[2]}</span></div>
    <div class="option"><span> ${questions[index].options[3]}</span></div>`;

    optionList.innerHTML = optionTag;

    const option=document.querySelectorAll('.option');
    for(let i = 0;i<option.length;i++)
    {
        option[i].setAttribute('onclick','optionSelected(this)');

    }
}
function optionSelected(answers){
    let userAnswer=answers.textContent;
    let correctAnswer=questions[questionCount-1].answers;
    let allOptions=optionList.children.length;
        //  console.log(userAnswer);
        // console.log(correctAnswer);
      if(userAnswer == correctAnswer){
            // console.log("answer is correct ")
            answers.classList.add('correct');
```

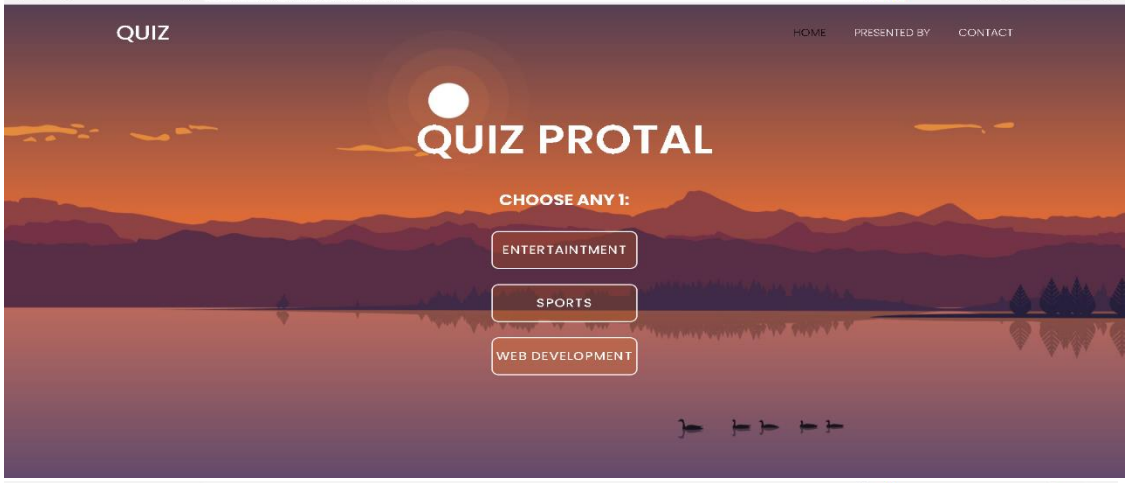
Quiz Portal

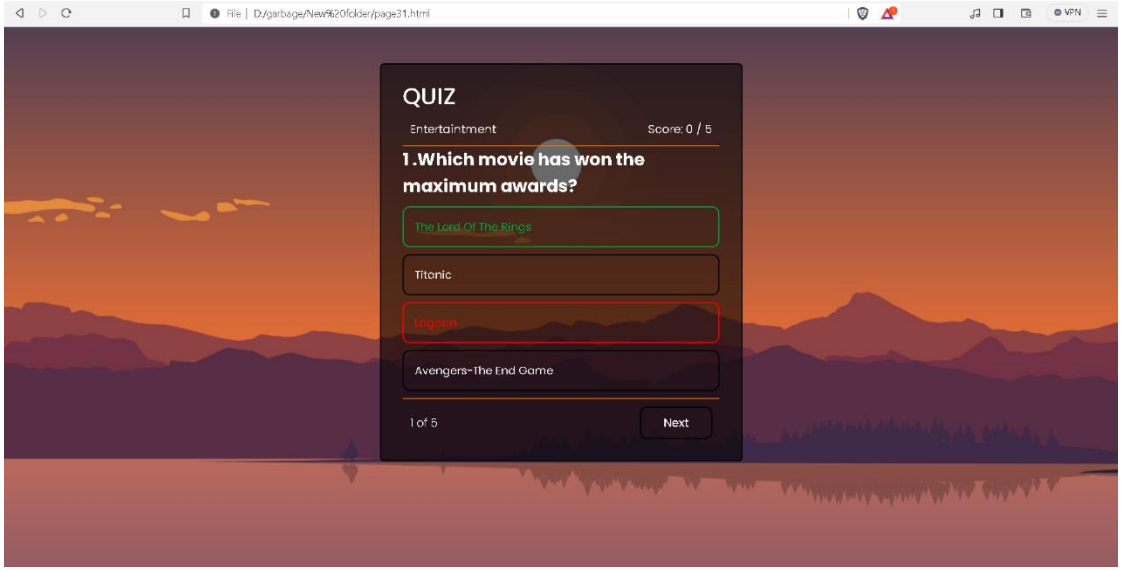
```
                answers.classList.add('correct');
                userScore+=1;
                headScore();
            }
        else{
            // console.log("answer is wrong")
            answers.classList.add('incorrect');
            for(let i=0;i<allOptions;i++){
              if(optionList.children[i].textContent==correctAnswer){
                 optionList.children[i].setAttribute('class','option correct');
              }
            }
            }
            for(let i=0;i<allOptions;i++){
              optionList.children[i].classList.add('dissabled')
            }
}
function questionCounter(index){
    const questionTotal=document.querySelector('.QNO');
    questionTotal.textContent=`${index } of 5`
}
function headScore() {
    const headScoreText=document.querySelector('.score');
    headScoreText.textContent=`Score: ${userScore} / 5`;
}
const resultBox=document.querySelector('.result-box');
const restxt=document.querySelector(".score-text");
const resqb=document.querySelector('.qb')
function showResult(){
    restxt.textContent=`${userScore} out of 5`
    resqb.classList.add('active')
    resultBox.classList.add('active');
}
 let questions = [
    {
        numb: 1,
        question:"Which movie has won the maximum awards?",
        answers:" The Lord Of The Rings",
            options:[ "The Lord Of The Rings",
             "Titanic",
             "Lagaan",
            "Avengers-The End Game"
        ]
    },

    {
        numb: 2,
```

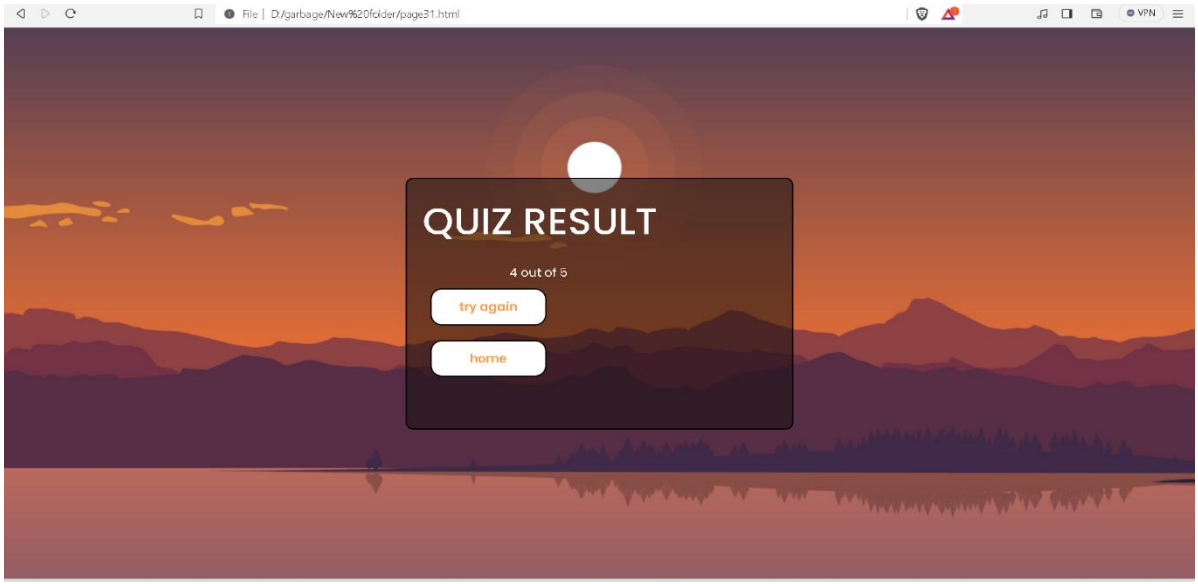
```
    ]
    },

    {
        numb: 2,
        question:"Madhuri Dixit's name in N Chandra's 'Tezaab' was ...?",
        answers:" Mohini",
            options: [ "Sunandha",
             "Mohini",
             "Priya",
             "Radha"
        ]
    },
    {
        numb: 3,
        question:"Oscar Wining short documentary film 'Smile Pinki'(2008) was directed by....",
        answers:" Megan Mylan",
            options: [ "Megan Mylan",
             "Michael Curtiz",
             "Charlie Chaplin",
             "Alfred Hitchcock"
        ]
    },
    {
        numb: 4,
        question:"Aishwarya Rai was crowned Miss World in which year?",
        answers:" 1994",
            options: [ "1995",
                       "1994",
                       "1993",
                       "1996"
                     ]
    },
    {
        numb: 5,
        question:"Which Indian movie won The OSCAR Award in year 2023?",
        answers:" RRR",
         options: [ "RRR",
                    "Brahmastra",
                    "Sooryavanshyam",
                    "Boys 3"
                  ]
    },
];
```

Output Snapshots:









Conclusion:

In conclusion, the development and implementation of the quiz portal have proven to be a significant achievement, offering a versatile platform for interactive learning and assessment. Throughout the project, we aimed to create a user-friendly, engaging, and efficient system that catered to the needs of both learners and educators. The portal's success can be attributed to meticulous planning, effective design, and rigorous testing.

Through this project, we have successfully demonstrated the potential of technology to enhance the educational experience. The quiz portal's features, including its diverse question bank, real-time feedback, and performance analytics, empower learners to actively participate in their learning journey while enabling instructors to tailor their teaching methods accordingly. This aligns with the modern shift towards more personalized and interactive forms of education.

In summary, the quiz portal project not only fulfilled its initial objectives but also opened avenues for future enhancements and expansions. As technology continues to reshape education, this project stands as a testament to the power of innovation in fostering meaningful learning experiences. By providing a dynamic and interactive platform for quizzes and assessments, the portal contributes to the ongoing evolution of education in the digital age.