

A Mini Project Report
on
“QuizPortal - Interactive Quiz Website Development”

Submitted to
Web Technoly Lab
BACHELOR OF TECHNOLOGY
IN
INFORMATION TECHNOLOGY

Submitted by

G. BhanuPrakash	21121A3513
J.Jayavardhan	21121A3514
J. Prashanth	21121A3515
K. Mallikarjuna reddy	21121A3516
K. Sadaf	21121A3517
K. Naga Lakshmi	21121A3518



Department of Information Technology

SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)

(Affiliated to JNTUA, Anantapur, Approved by AICTE, Accredited by NBA &
NAAC) Sree Sainath Nagar, Tirupati – 517 102, A.P., INDIA

2023-2024

A Study on Web Development

ABSTRACT:

The "QuizPortal" project is a comprehensive endeavor aimed at the design, development, and deployment of an interactive quiz website. With a focus on creating an engaging and educational platform, QuizPortal seeks to offer users an immersive quiz-taking experience while promoting learning and knowledge-sharing. This abstract outlines the project's key components and objectives.

KEYWORDS:

Responsive Design, Database Integration, Front-End Development, Back-End Development, Security Measures, Hosting and Deployment, Quiz Content, User Interaction, User Progress Tracking, User Feedback.

INTRODUCTION:

- **Content Creation:** A comprehensive library of quiz questions, options, and explanations is curated for user engagement and learning.
- **Design and User Interface:** The project prioritizes intuitive and visually appealing user interface design for enhanced user experience.
- **Database Integration:** A database system is established to store quiz data, user information, and results.
- **Front-End Development:** HTML, CSS, and JavaScript are employed to create the website's visual layout and interactive features.
- **Back-End Development:** A server and APIs are set up to facilitate user registration, authentication, and quiz management.
- **Testing and Security:** Rigorous testing and security implementation are conducted to ensure functionality and protect user data.
- **Hosting and Deployment:** The website is hosted on a live server, and a domain name is established for public access.

Advantages:

- **Educational Engagement:** QuizPortal is designed to serve as an educational resource, providing users with a diverse range of quizzes covering various subjects and topics.

- **User Interaction:** The project prioritizes user engagement through interactive quiz-taking experiences, real-time feedback, and dynamic scoring.
- **User Registration:** Users can register accounts to track their quiz progress, scores, and achievements.
- **Diverse Content:** QuizPortal features a library of quiz questions and answers spanning academic subjects, general knowledge, trivia, and more.
- **Responsive Design:** The website ensures a seamless user experience by offering responsive design for compatibility with various devices and screen sizes.
- **Security:** Robust security measures are implemented to safeguard user data and maintain the integrity of quizzes.

Implementation:

Home.php

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Quiz Project</title>
  <style>
body {
  font-family: Arial, sans-serif;
  text-align: center;
  color:yellowgreen;
  background-
image:url("https://images.hindustantimes.com/img/2021/11/15/1600x900/fe3b045e-4576-11ec-86e0-
9750c834616f_1636914131062_1636956473304.jpg");
  background-repeat:no-repeat;
  background-size:cover;
}
h1
{
  color:yellowgreen;
  font-family:cooper black;
  background-color:black;
  width:300px;
  margin:auto;
  border-radius:15px;
}
#quiz-container
{
  max-width: 600px;
  margin: 0 auto;
  background-color: #fff;
  border: 2px solid #333;
  padding: 20px;
```

```

        position:relative;
        top:50px;
    }
    #question-container
    {
        font-size: 18px;
        margin-bottom: 20px;
    }
    #user-info-form
    {
        font-size:20px;
        font-weight:bold;
        position:relative;
        top:35px;
    }
    .button
    {
        background-color: #3498db;
        color: #fff;
        border: none;
        padding: 10px 20px;
        margin: 5px;
        cursor: pointer;
    }
    input[type="text"]:focus
    {
        color:yellow;
        background-color:black;
        font-size:15px;
    }
    input[type="number"]:focus
    {
        color:yellow;
        background-color:black;
        font-size:15px;
    }
    input[type="email"]:focus
    {
        color:yellow;
        background-color:black;
        font-size:15px;
    }
    #score
    {
        font-weight: bold;
    }
    #options-container button
    {
        margin:10px;
        width:300px;
    }
    button:hover
    {
        font-size:20px;
        font-weight:bold;
        background-color:#cce8d4;
    }
</style>

```

```

    <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
  <div class="container">
    <h1>Welcome to the Quiz!</h1>
    <form id="user-info-form" action="server.php" method="post">
      <label for="name">Name:</label>
      <input type="text" id="name" name="name" required>
      <label for="age">Age:</label>
      <input type="number" id="age" name="age" required>
      <label for="email">Email:</label>
      <input type="email" id="email" name="email" required>

      <div id="quiz-container">
        <h1>Quiz Game</h1>
        <div id="question-container">
          <p id="question-text">who is the founder of the java ?</p>
        </div>
        <div id="options-container">
          <button class="option">James Gosling</button>
          <button class="option">Dennis Ritchie</button>
          <button class="option">Bjarne Stroustrup</button>
          <button class="option">Brian Kernighan</button>
        </div>
        <button type="submit">Submit</button>
      </div>

    </form>

    <p id="score">Score: <span id="score-value">0</span></p>

  </div>
  <script src="script.js"></script>
</body>
</html>

```

Script.js

```

const questionText = document.getElementById("question-text");

const optionsContainer = document.getElementById("options-container");

const scoreText = document.getElementById("score-value");

const questions = [
  {
    question: "who is the founder of the java ?",
    options: ["James Gosling", "Dennis Ritchie", "Bjarne Stroustrup", "Brian Kernighan"],
    correctAnswer: "James Gosling",
  },
  {
    question: "what is the fullform of IUPAC?",

```

options: ["interconnection of Pure and appliction Chemistry", "International physical and Applied connection", "International Union of Pure and Applied Chemistry", "International Unit of position and absorbed Chemistry"],

correctAnswer: "International Union of Pure and Applied Chemistry",

},

{

question: "who is the father of vietnam?",

options: ["mao jadong", "ho chi minh", "gandhi", "sun yat-sen"],

correctAnswer: "ho chi minh",

},

{

question: "Which command will stop an infinite loop?",

options: ["Alt-c", "shift-c", "Esc", "ctrl-c"],

correctAnswer: "ctrl-c",

},

{

question: "the pseudocode is.....",

options: ["algorithm", "flowchart", "object code", "coding"],

correctAnswer: "algorithm",

},

{

question: "In any HTML document how you make a bulleted list?",

options: ["", "<list>", "", "<nl>", "both A & B", "none of these"],

correctAnswer: "",

},

{

question: " In any HTML document which tag to make a text italic?",

options: ["<italic>", "<i>", "<i>", "", "none"],

correctAnswer: "<i>",

},

{

question: " Width of a byte is. Select anyone.",

options: ["7", "9", "5", "6", "8"],

correctAnswer: "8",

```

    },
    // Add more questions here
  ];

let currentQuestionIndex = 0;
let score = 0;

function showQuestion(question) {
  questionText.textContent = question.question;
  optionsContainer.innerHTML = "";
  question.options.forEach((option) => {
    const button = document.createElement("button");
    button.textContent = option;
    button.classList.add("option");
    button.addEventListener("click", () => checkAnswer(option, question.correctAnswer));
    optionsContainer.appendChild(button);
  });
}

function checkAnswer(selectedAnswer, correctAnswer) {
  if (selectedAnswer === correctAnswer) {
    score++;
  }
  currentQuestionIndex++;
  if (currentQuestionIndex < questions.length) {
    showQuestion(questions[currentQuestionIndex]);
  } else {
    endGame(); // Call endGame function when all questions are completed
  }
  updateScore();
}

function updateScore() {

```

```

        scoreText.textContent = score;
    }

    function endGame() {
        questionText.textContent = "Quiz Completed!";
        optionsContainer.innerHTML = "";
        updateScore(); // Update the score one more time before sending it to the server
        sendScoreToServer(score); // Send the score to the server when the quiz is completed
    }

    function sendScoreToServer(score) {
        fetch("server.php", {
            method: "POST",
            headers: {
                "Content-Type": "application/x-www-form-urlencoded"
            },
            body: `score=${score}`
        })
        .then(response => response.text())
        .then(data => {
            console.log(data);
        })
        .catch(error => {
            console.error("Error:", error);
        });
    }

    showQuestion(questions[currentQuestionIndex]);

```

server.php:

```

<?php
// Connect to your MySQL database
$servername = "localhost";

```



```

$username = "root";
$password = "";
$dbname = "local";

// Create a new database connection
$conn = new mysqli($servername, $username, $password, $dbname);

// Check the database connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Get user data and quiz results from POST parameters
$name = isset($_POST['name']) ? $_POST['name'] : "";
$age = isset($_POST['age']) ? $_POST['age'] : "";
$email = isset($_POST['email']) ? $_POST['email'] : "";
$score = isset($_POST['score']) ? $_POST['score'] : 0;

// Use prepared statements to prevent SQL injection
$stmt = $conn->prepare("INSERT INTO results (name, age, email, score) VALUES (?, ?, ?, ?)");
$stmt->bind_param("sisi", $name, $age, $email, $score);

if ($stmt->execute()) {
    echo "Results stored successfully!";
} else {
    echo "Error: " . $stmt->error;
}

// Close the prepared statement and the database connection
$stmt->close();
$conn->close();
?>
<?php

```

```

// Connect to your MySQL database

$servername = "localhost";
$username = "root";
$password = "";
$dbname = "local";

// Create a new database connection
$conn = new mysqli($servername, $username, $password, $dbname);

// Check the database connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Query to select data from the "results" table
$sql = "SELECT * FROM results";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    echo "<table>";
    echo "<tr><th>Name</th><th>Age</th><th>Email</th><th>Score</th></tr>";

    // Output data of each row
    while ($row = $result->fetch_assoc()) {
        echo "<tr><td>" . $row["name"] . "</td><td>" . $row["age"] . "</td><td>" . $row["email"] .
"</td><td>" . $row["score"] . "</td></tr>";
    }

    echo "</table>";
} else {
    echo "No results found";
}

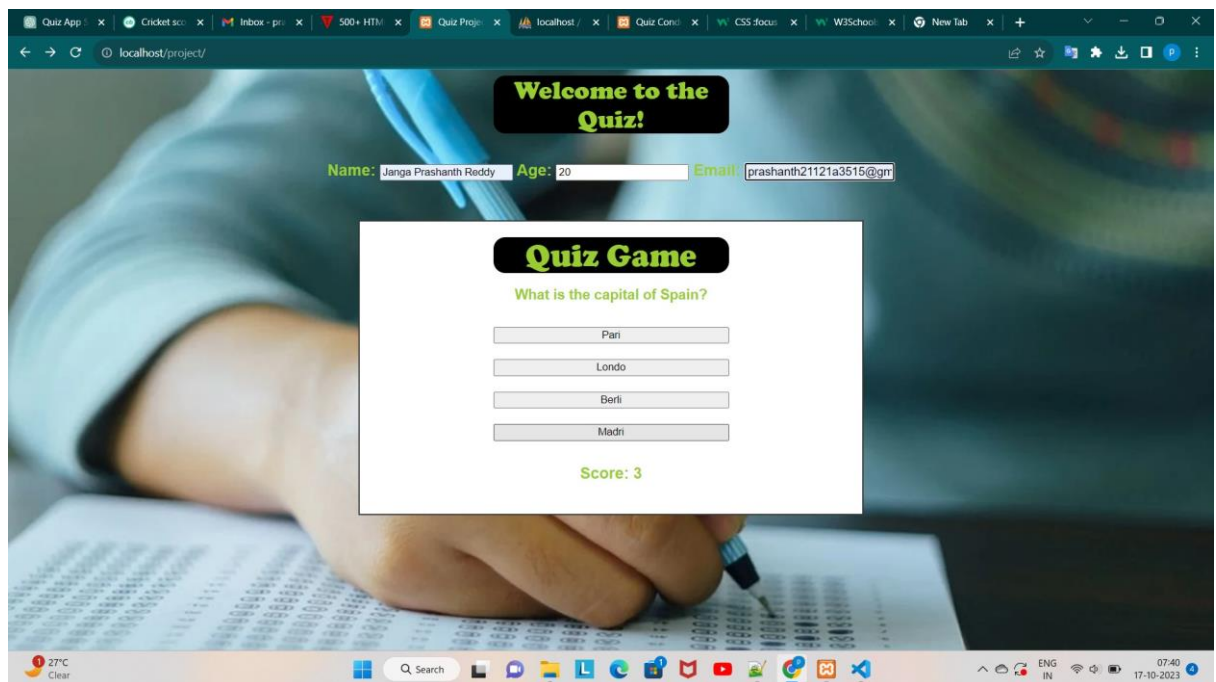
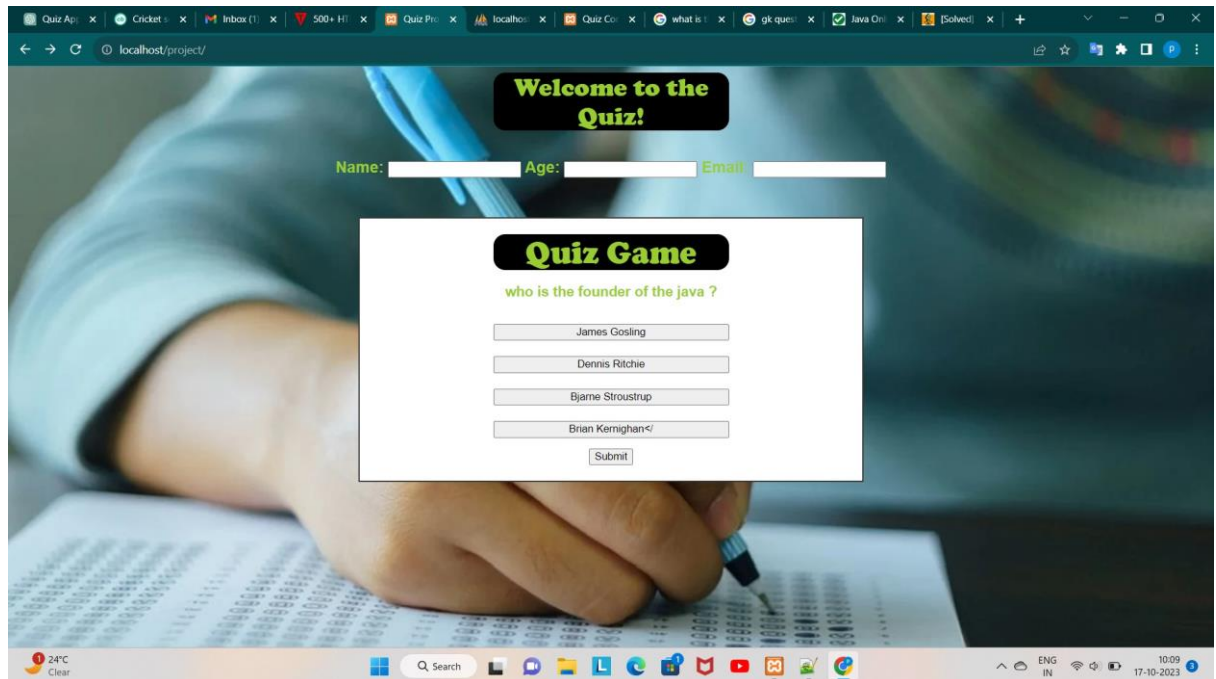
```

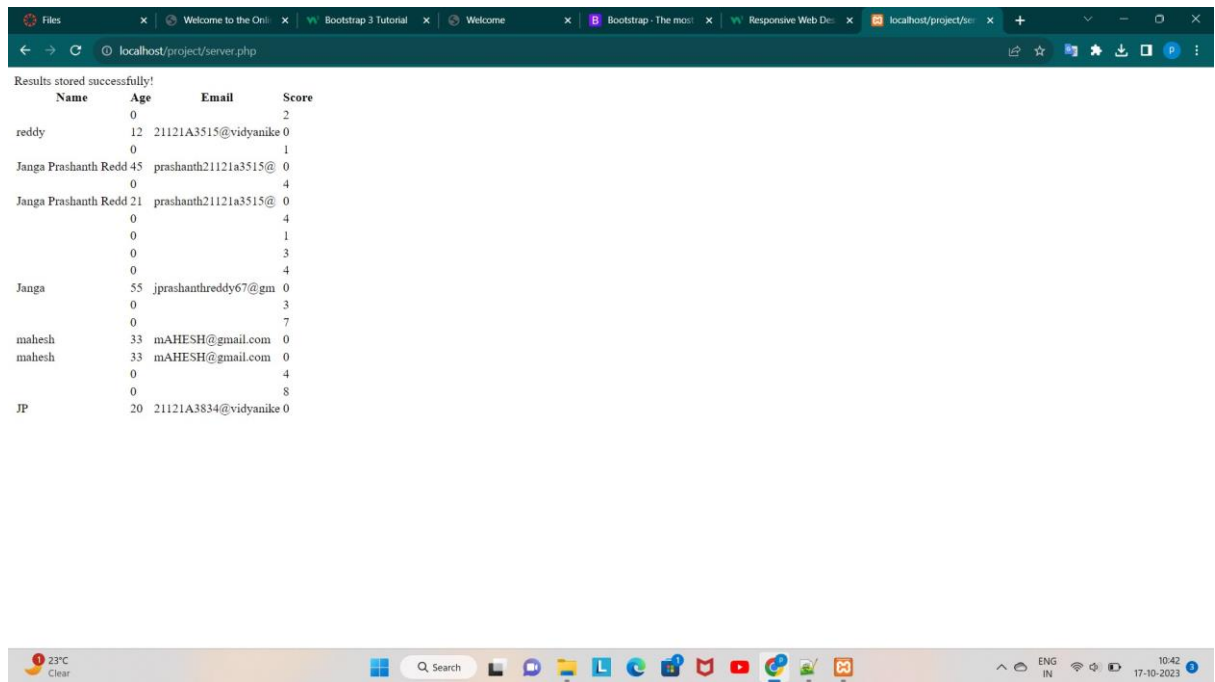
```
// Close the database connection
```

```
$conn->close();
```

```
?>
```

Output:





CONCLUSION:

the "QuizPortal - Interactive Quiz Website Development" project has come to fruition as a testament to the power of innovation, education, and community engagement. Our primary goal was to create an online platform that not only delivers interactive and engaging quizzes but also fosters a love for learning and knowledge sharing. The development process involved meticulous attention to detail, from curating a comprehensive library of quiz questions to crafting an intuitive user interface. The result is a dynamic and user-friendly website that offers a rich repository of quizzes, covering diverse subjects and topics, and a seamless, responsive design that adapts to users' various devices.

REFERENCES:

- “Quiz webpage development (December 2020)”, <https://www.propofcs.com/quiz-school/topic/web-development>, Drafted on: 20/12/22
- Mysql server (December 2022)”, <https://www.wpbeginner.com/wp-tutorials/how-to-make-an-online-quiz-website-step-by-step/> Drafted on: 21/12/22
- Quiz test (Jan 2022)”, <https://www.w3schools.com/quiztest/> Drafted on: 22/12/22
- B. Maria Joseph, K. K. Baser, “Reducing the Latency using Fog Computing with IoT in Real Time”, Gongcheng Kxoe Yu Joshua/Advanced Engineering Science, Volume 54, Issue 08, October, 2022,

- B Maria Joseph, Dr. K. K. Baseer, "SYSTEMATIZED LITERATURE REVIEW ON
- FOG COMPUTING AND ARTIFICIAL INTELLIGENCE WITH INTERNET OF THINGS";IJRAR - International Journal of Research and Analytical Reviews (IJRAR), EISSN2348-1269, P- ISSN 2349-5138, Volume.9, Issue 4, Page No pp.370-387, October 2022.
- K. K. Baseer, M. Jahir Pasha, A. V. Rama Krishna Reddy, Kamarthi Rekha, M.Shaheda Begum,Sandhya E., "Smart Online Examination Monitoring System"; Journal of Algebraic Statistics, Volume 13, No. 3, 2022, p.559-570, ISSN: 1309-345
- Silpa, C., Niranjana, G., Ramani, K. (2022). Securing Data from Active Attacks in IoT: An Extensive Study. In: Manogaran, G., Shanthini, A., Vadivu, G. (eds) Proceedings of International Conference on Deep Learning, Computing and Intelligence. Advances in Intelligent Systems and Computing, vol 1396. Springer,Singapore.
https://doi.org/10.1007/978-981-16-5652-1_5
- K. K. Baseer, M. Jahir Pasha, D. William Albert and V. Sujatha, "Navigation And Obstacle Detection for Visually Impaired People,"; 2021 Fourth International Conference on Microelectronics, Signals & Systems (ICMSS), 2021, pp. 1-3, doi:10.1109/ICMSS53060.2021.9673618.
- Dr M Jahir Pasha, V Sujatha, A Hari Priya, Dr K Baseer, "IoT Technology Enabled MultiPurpose Chair to Control the Home/Office Appliance"; Journal of Algebraic Statistics, Volume 13, No. 1, May, 2022, p.952-959, ISSN: 1309-3452.
- K. K. Baseer, Dr M Jahir Pasha, Telkapalli Murali Krishna, Jeribanda Mohan Kumar, Silpa C, "COVID-19 Patient Count Prediction using Classification Algorithm", International Journal of Early Childhood Special Education (INT-JECSE), DOI:10.9756/INTJECSE/V14I7.7 ISSN: 1308-5581 Vol 14, Issue 07,2022.
- P. Bhasha, Dr. T. Pavan Kumar, Dr. K. K. Baseer. "A Simple and Effective Electronic Stick to Detect Obstacles for Visually Impaired People through Sensor Technology". Jour of Adv Research in Dynamical

&& Control Systems, Vol. 12, Issue-06, 2020, pp. 18-25, DOI: 10.5373/JARDCS/V12I6/S20201003.

- Silpa C, Dr. S Srinivasa Chakravarthi, Jagadeesh Kumar G, Dr. K.K. Baseer, E. Sandhya, “Health Monitoring System Using IoT Sensors”, Journal of Algebraic Statistics, Volume 13, No. 3, June, 2022, p. 3051-3056, ISSN: 1309-3452.
- K.K. Baseer, V. Neerugatti, M. Jahir Pasha, and V. D. Satish Kumar. “Internet of Things: A Product Development Cycle for the Entrepreneurs”. Helix, Vol. 10, no. 02, Apr. 2020, pp. 15560.
- E. Sandhya, Ram Prakash Reddy Arava, Dr. E. S. Phalguna Krishna, Dr. K.K.Baseer, “Investigating Student Learning Process and Predicting Student Performance Using MachineLearning Approaches”, International Journal of Early Childhood Special Education (INT-JECS), DOI:10.9756/INTJECSE/V14I7.60, ISSN: 1308-5581, Vol 14, Issue 07, 2022, pp.622628.
- C. Silpa. Suneetha, Dr.G. Reddy Hemantha, Ram Prakash Reddy Arava, Y.Bhumika, “Medication Alarm: A Proficient IoT-Enabled Medication Alarm for Age Old People to the Betterment of their Medication Practice”, Journal of Pharmaceutical Negative Results, vol. 13, no. 4, pp. 1041–1046, Nov. 2022.
- Jyothsna, V., Mukesh, D., Sreedhar, A.N. (2019). A Flow-Based Network Intrusion Detection System for High-Speed Networks Using Meta-Heuristic Scale. In: Peng, SL., Dey, N., Bundele,M. (eds) Computing and Network Sustainability. Lecture Notes in Networks and Systems, vol75. Springer, Singapore. https://doi.org/10.1007/978-981-13-7150-9_36