

A Mini Project Report on
Quiz Application

T.E. - I.T Engineering

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CERTIFICATE

This to certify that the Mini Project report on Quiz Application has been submitted by Sakshi Thorbole(2124003),Tejas Patil(20104123) and Tanishq Sahane(20104072) who are a Bonafede students of A. P. Shah Institute of Technology, Thane, Mumbai, as a partial fulfilment of the requirement for the degree in Information Technology, during the academic year 2022-23 in the satisfactory manner as per the curriculum laid down by University of Mumbai.

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ABSTRACT

The project: "Quiz Application" is a collection of number of different types of quizzes like technical Course Related Etc. made for colleges/school. An admin can access all of the quiz and can add more quiz related to course. There will be limited number of questions and for each correct answer user will get a credit score. Admin can add and delete student/Teacher. Students can see answers as well as can ask a query related to it. There are many quiz applications available currently on internet. But there are few Which provide better understanding between users and the application like, providing proper answers, user query solving, uploading user questions as well as answer to it, etc. To develop a user friendly quiz application which will contain: Numbers of quiz , answers to every question, query solving regarding any question, Uploading of user question and answer, and to improve the knowledge level of users. To develop an application which will contain solution to the above problems. By this application the user will come to know about his/her level and can learn additional knowledge. Also by this application a user can expand his/her knowledge among the world.

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References

1. Introduction:

The project: “Quiz Application” is a collection of number of different types of quizzes like technical Course Related Etc. made for colleges/school. An admin can access all of the quiz and can add more quiz related to course. There will be limited number of questions and for each correct answer user will get a credit score. Admin can add and delete student/Teacher. Students can see answers as well as can ask a query related to it. There are many quiz applications available currently on internet. But there are few which provide better understanding between users and the application like, providing proper answers, user query solving, uploading user questions as well as answer to it, etc. To develop a user friendly quiz application which will contain: Numbers of quiz, Answers to every question, Query solving regarding any question, Uploading of user question and answer, and to improve the knowledge level of users. To develop an application which will contain solution to the above problems. By this application the user will come to know about his/her level and can learn additional knowledge, also by this application a user can expand his/her knowledge among the world.

1.1 Purpose:

This web application provides facility to conduct online quiz and practice Study material and G.K. It provides a good platform, where a student not only judges their knowledge/skill but also they can improve knowledge/skill at the same time.

1.2 Problem Statement:

Quiz Contest is an application developed to conduct a quiz based on time constraints. Quiz Contest system is accessed by entering the user name and password which is added to the database. Before start of the quiz, the rules and regulations are displayed that includes description of the time limit, number of questions to be answered and scoring methods. Quiz is started by displaying one question with four options each based on computer and general knowledge.

1.3 Objective:

The main objective of “Quiz Application” is to facilitate a user friendly environment for all users and reduces the manual effort. In past days quiz is conducted manually but in further resolution of the technology we are able to generate the score and pose the queries automatically. The functional requirements include creating users that are going to participate in the quiz, automatic score and report generation and administrative tasks like add, delete, update for admin privilege users. In this application, all the permissions lie with the administrator i.e., specifying the details of the quiz with checking result will show to interviewee or not, addition of question and answers, marks for each question, Set timer for each quiz and generate report with score for each quiz.

1.4 Scope:

The Scope of this project is very broad in terms of gaining knowledge and sharing knowledge among world. Few points are :-

- Can be used anywhere any time as it is a web-based application.
- This application will be used in educational institutions as well as incorporate world.

2. Literature Review

- [Paper1]: The main theme of this app is to save the time while conducting examinations. Generally, to conduct exam we need so much infrastructure, but here if we have the application installed is enough for the examination. Up to now we take examinations on paper, the idea to take examinations in our device led us to creation of the application. Earlier, correction of the answers is also a big problem to correct manually so our application gets rid of the heavy work of correcting each and every answer in manual way.
- [Paper2]: Development of web-based Quiz application is mainly required by students and learners to prepare themselves for different examinations directly through Computer, smart phones and tablets. One of the major goal of our project is to facilitate students in learning, gaining and improving their knowledge skills. At the meantime, our app provides them fun so that the users can prepare for interviews, entrance tests or any other corresponding purposes in a fresh mood.
- [Paper3]: Although there are number of Web-Based applications which are, one way or other related to quiz, however, there only few that help in learning and contributing to the academic enhancement of the students. Most of the available applications are aiming at having a fun or entertainment. Among the many applications, we review some Web based applications that are quite famous and are successful

3. Proposed System:

Unlike other Application it doesn't allow anyone to enroll into the system. Admin will verify the information through school/college authority to add a user(student)/Teacher into the system. Teacher can add quiz and grade according to it. The proposed system is an application will help in improving the knowledge and accuracy.

3.1. Features and Functionality:

- Feature 1: The Question will be different for all the users and jumbled.
- Feature 2: After marking the answer, it will notify correct/incorrect answer. When you submit answer it will prompt that if the question is correct or wrong.
- Feature 3: There will be certain time slot allotted for execution of quiz. There will be given time to complete the quiz.
- Feature 4: Result will be declared after end of quiz.
- Feature 5: Easy way to test knowledge.
- Feature 6: User-friendly app for easy understanding.
- Feature 7: Certificate will be generated after giving the exam.

4. Requirement Analysis:

Hardware/Software	Specification
Processor	Intel i3 or greater
Operating System	Windows/Ubuntu
RAM	<=4GB
Language used	HTML5, CSS, React/JS
Database	Firebase
IDE	Visual Studio

5. Project Design:

DFD (Data Flow Diagram)

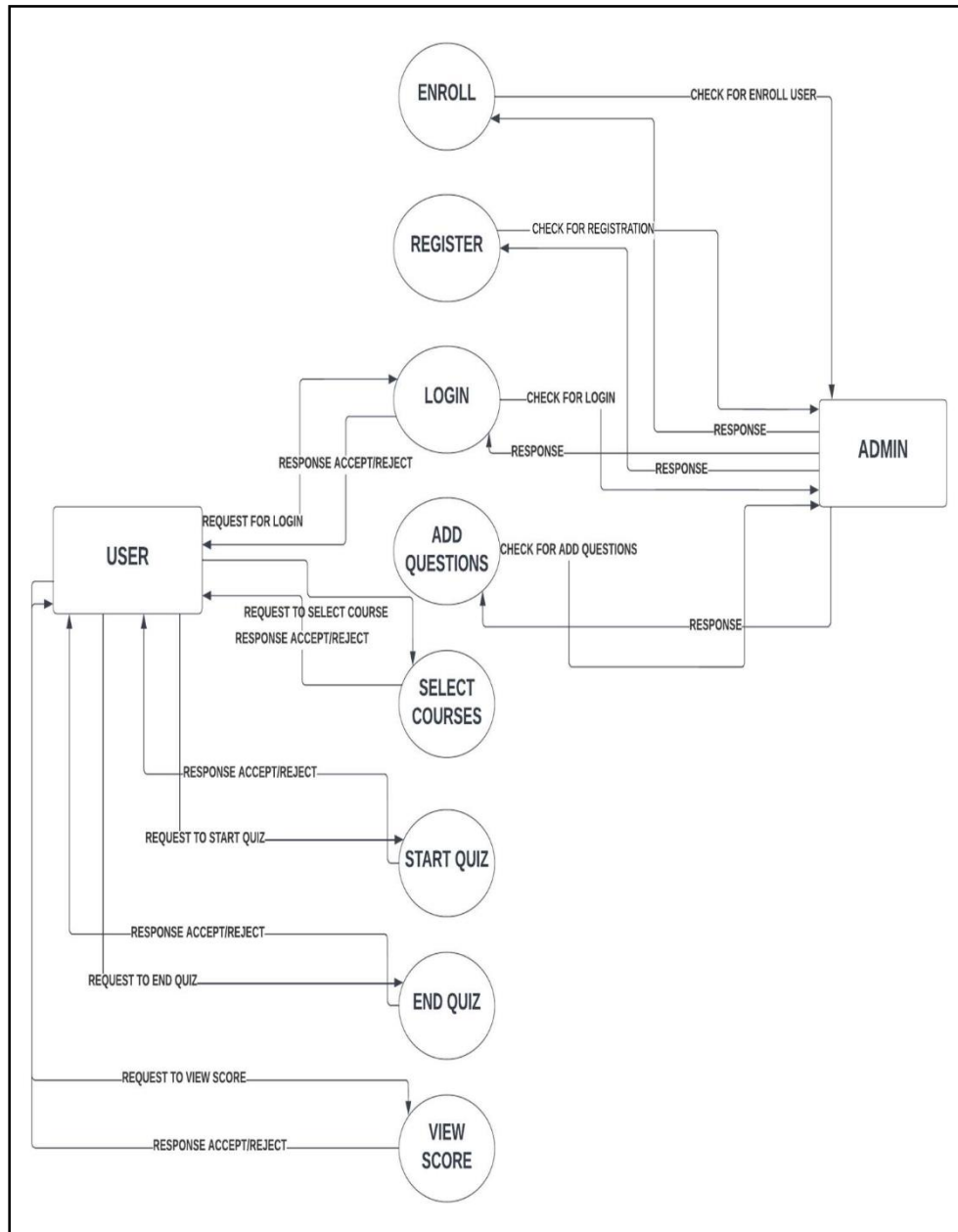


Fig 1: DFD

Use-Case:

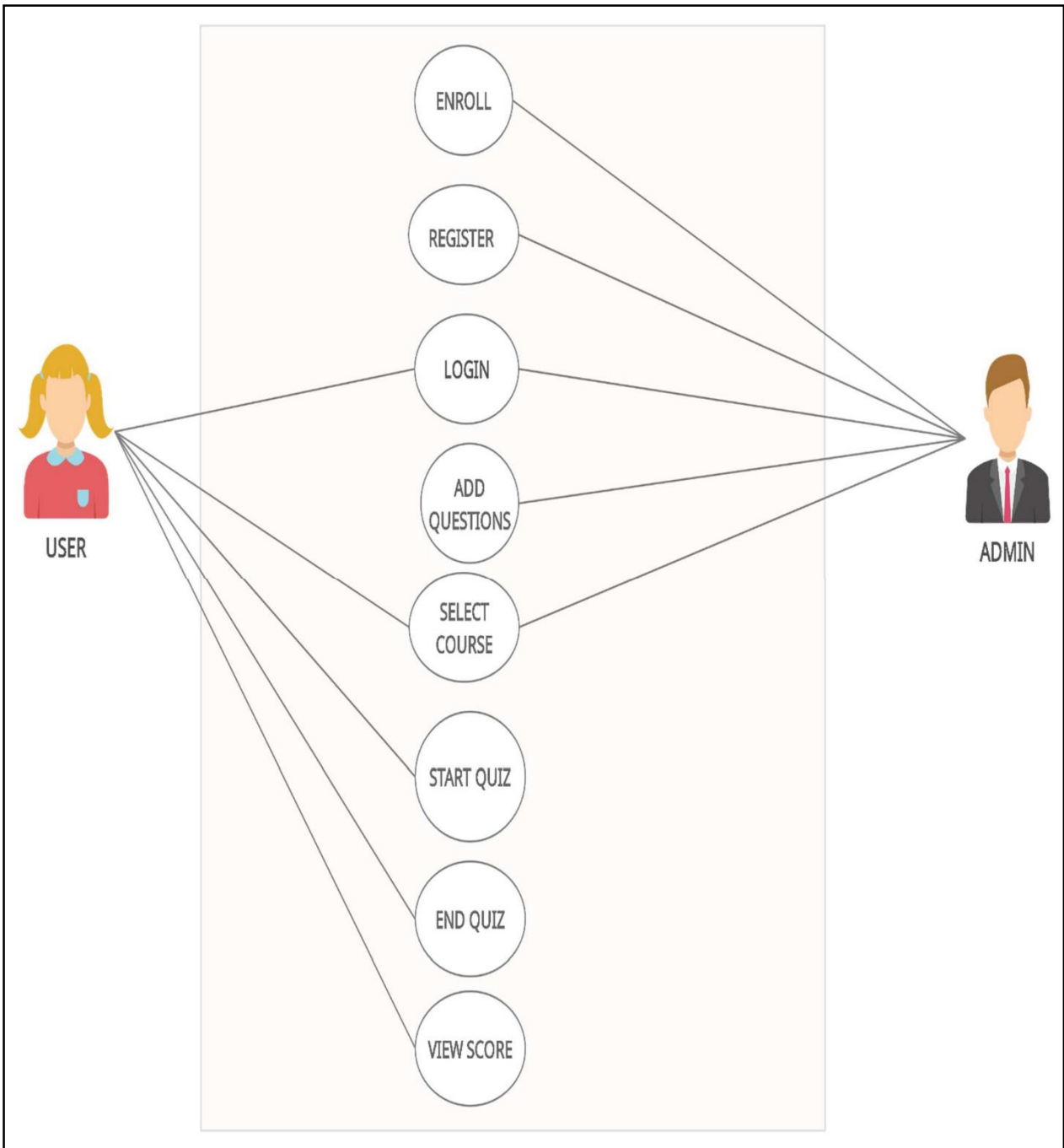


Fig 2: Use-Case

Block Diagram:

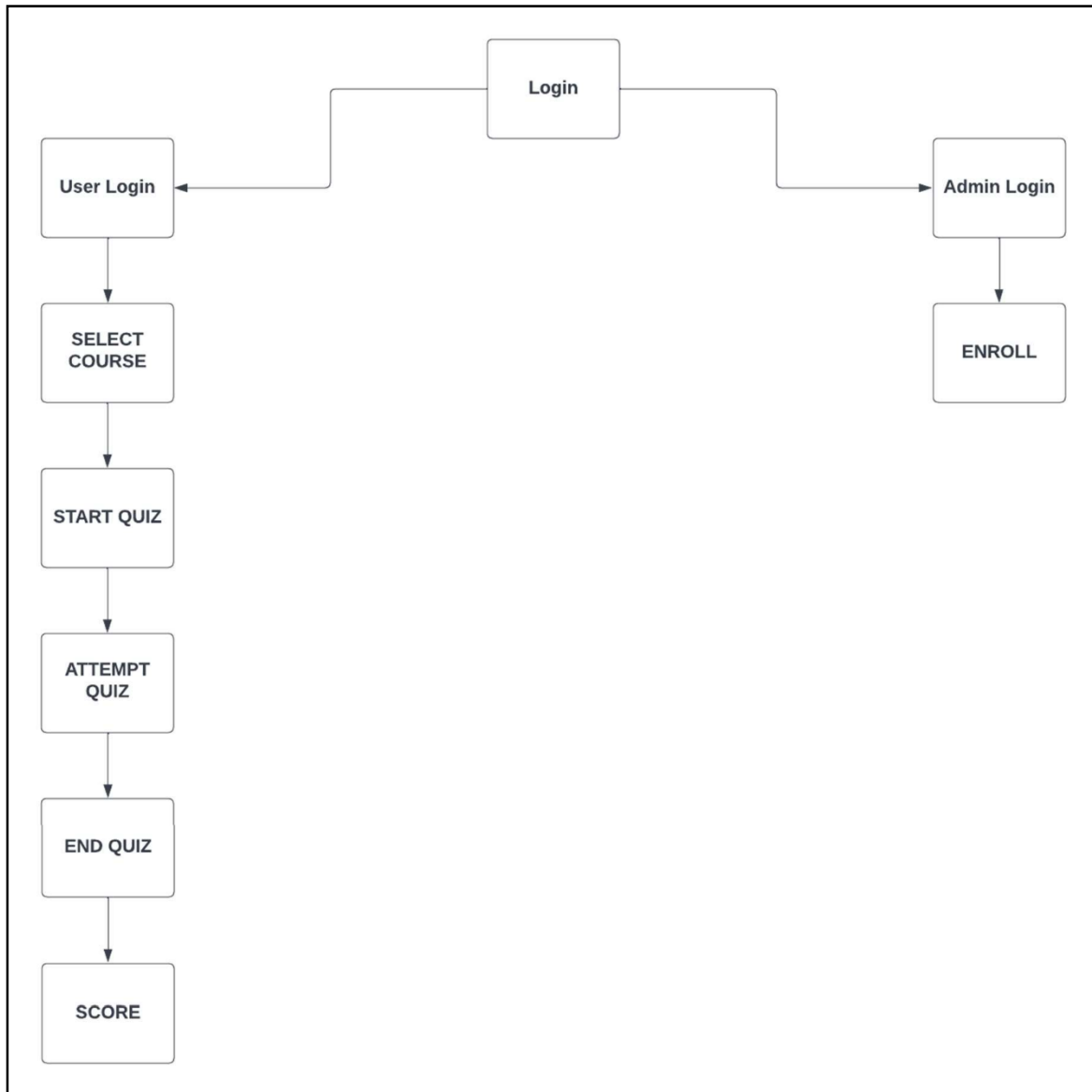


Fig 3: Block Diagram

6 Technical specification:

Development: VS Code

VS Code also known as Visual Studio Code is a source code editor made by Microsoft for Windows, Linux, MacOS. It has various features such as Debugging, Syntax highlighting, extension, intelligent code completion.

Frontend: Html, CSS, JavaScript

As a web developer, the three main languages we use to build websites are HTML, CSS, and JavaScript. JavaScript is the programming language, we use HTML to structure the site, and we use CSS to design and layout the webpage. These days, CSS has become more than just a design language, though. You can actually implement animations and smooth transitions with just CSS.

OS: Windows

Windows is a graphical operating system developed by Microsoft. It allows users to view and store files, run the software, play games, watch videos, and provides a way to connect to the internet. It was released for both home computing and professional works.

Backend: Firebase

Firebase is valued largely because it can constantly propagate and synchronize changes between local copies of information stored on users' machines with versions kept in the cloud. Firebase eliminates many of the challenges of mixing authentication, synchronization, and segregation by juggling multiple versions and ensuring the right bits are the same throughout the system.

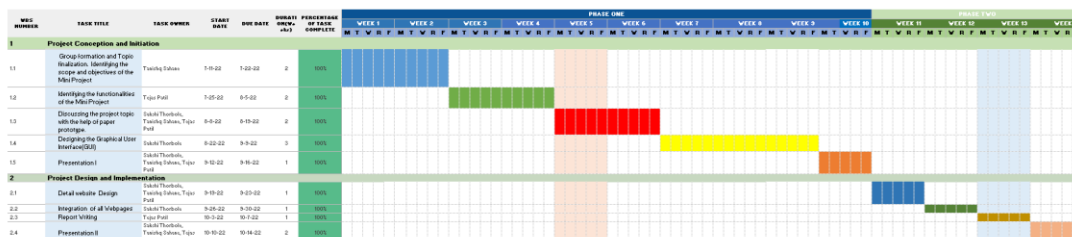
7. Project Scheduling:

GANTT CHART TEMPLATE

Smartsheet Tip → A Gantt chart's visual timeline allows you to see details about each task as well as project dependencies.

PROJECT TITLE - QUIZ APPLICATION

INSTITUTE & DEPARTMENT APJ KHAM INSTITUTE OF TECHNOLOGY (Information Technology)



8. Implementation:

Login.html –

```
<html>
<head>
  <link rel="stylesheet" href="Style.css">
  <title>Quiz Application</title>
</head>
<script>
  function val()
  {
    let sname=document.forms["f1"]["sname"].value;
    let pwd=document.f1.pwd.value;

    if(!(isNaN(sname))){

      alert("Enter only characters for name");
      document.f1.sname.focus();
      return false;
    }
    if(pwd.length<8||cpwd.length<8){
      alert("Password must be minimum 8 in length");
      document.f1.pwd.focus();
      return false;
    }
  }
</script>

<body>
<div class="wrapper">
  <div class="title">Login</div>
  <form action="cat.html" form method="POST" name="f1" class="ff">

    <div class="login">
      <label>LOGIN AS:</label>
      <select>
        <option value="User">User</option>
        <option value="Admin">Admin</option>
      </select> <br>
      <br>
    </div>

    <div class="field">
      <input type="text" name="sname" onfocus="true" required>
      <label>User Name</label>
    </div>

    <div class="field">
      <input type="password" name="pwd" onfocus="true" required>
      <label>Password</label>
    </div>
```

```

<!--<div class="content">
  <div class="pass-link"><a href="#">Forgot password?</a></div>
</div>-->

<div class="field">
  <a href="C:\Users\ABC\Desktop\Quizz Application\cat.html">
    <input type="submit" onclick="val()" value="LogIn">
  </a>
</div>

  <div class="signup-link">Don't have an account? <a href="C:\Users\ABC\Desktop\Quizz
Application\Register.html">SignUp Now</a>
</div>

</form>
</div>
</body>
</html>

```

Cat.html –

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Main Page</title>
  <link rel="stylesheet" href="cs.css">
</head>
<body class="body">
  <div class="nav">
    <a class="active" href="courses">Courses</a>
    <a href="scoreboard">ScoreBoard</a>
    <a href="team">Team</a>
    <a href="about">About</a>
    <a href="logout">Logout</a>
    <!--<input type="text" placeholder="Search Courses...">
    <i class="fa-solid fa-user"></i>
    <input type="text" class="box">-->
  </div>

  <h1 class="cam">Select Course</h1>

  <div class="card">
    <style>
      a { color: #ff5235; } /* CSS link color */
      .link:hover { color: #e91e3a;}
    </style>
    <h3 class="him"><a class="link" href="#" target="_blank">Entrepreneurship Development and
Business</a></h3>
    
  </div>

```

```

<div class="card">
  <h3 class="him"><a class="link" href="D:\pictures\Quizz Application\adsa.html"
target="_blank">Advanced Data Structure and Analysis</a></h3>
  <a href="D:\pictures\Quizz Application\adsa.html">
    
  </div>

<div class="card">
  <h3 class="him"><a class="link" href="D:\pictures\Quizz Application\cns.html"
target="_blank">Compuer Network Security</a></h3>
  <a href="D:\pictures\Quizz Application\cns.html">
    
  </div>

<div class="card">
  <h3 class="him"><a class="link" href="#" target="_blank">Software Engineering</a></h3>
  
</div>

<div class="card">
  <h3 class="him"><a class="link" href="D:\pictures\Quizz Application\ip.html"
target="_blank">Internet Programming</a></h3>
  <a href="D:\pictures\Quizz Application\ip.html">
    
  </div>

<div class="card">
  <h3 class="him"><a class="link" href="#" target="_blank">Mobile Application
Development</a></h3>
  
</div>

</body>
</html>

```

Ip.html –

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Internet Programming</title>
  <link rel="stylesheet" href="ip.css">
</head>
<body class="bo">
  <div class="dropdown">
    <button class="dropbtn">Chapter 1: Introduction</button>
    <div class="dropdown-content">
      <a href="D:\pictures\Quizz Application\index.html">1. Basic of HTML</a>
      <a href="D:\pictures\Quizz Application\ipbasic.html">2. Basic of CSS</a>
      <a href="D:\pictures\Quizz Application\ipJavascript.html">3. JavaScript</a>
    </div>
  </div>
</body>

```



```

<div class="dropdown">
  <button class="dropbtn">Chapter 2: React Fundamentals </button>
  <div class="dropdown-content">
    <a href="D:\pictures\Quizz Application\ipComponents.html">1. Components</a>
    <a href="D:\pictures\Quizz Application\ipStatesprops.html">2. State And Props</a>
    <a href="D:\pictures\Quizz Application\ipForms.html">3. Forms</a>
  </div>
</div>
<div class="dropdown">
  <button class="dropbtn">Chapter 3: Advanced React </button>
  <div class="dropdown-content">
    <a href="D:\pictures\Quizz Application\ipHooks.html">1. Hooks</a>
    <a href="D:\pictures\Quizz Application\ipFlux.html">2. Flux</a>
  </div>
</div>

<div class="field">
  <input type="button" onclick="myFunction()" value="BACK">
  <script>
    function myFunction() {
      window.location.href="cat.html"
    }
  </script>
</div>

</body>
</html>

```

Index.html

```

<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <title>Quiz App</title>
  <link
href="https://fonts.googleapis.com/css2?family=Exo+2:wght@600&family=Exo:ital,wght@1,600&di
splay=swap" rel="stylesheet">
  <script src="https://kit.fontawesome.com/a076d05399.js"></script>
  <link rel="stylesheet" href="css/style.css">
</head>

<body>
  <div id="container">
    <!-- Start Section -->
    <div id="start">Start Quiz</div>

    <!-- Guide Section -->
    <div id="guide">
      <h2>Quiz Guide</h2>
      <h4>1. You Have Only 20 Seconds For Each Questions.</h4>
      <h4>2. Once You Select Your Answer. It Can't Be Changed.</h4>
    </div>
  </div>
</body>

```

```

<h4>3. You'll Get Points On The Basic Of Your Correct Answers.</h4>
<h4>4. You Can't Exit From The Quiz While You Are Playing.</h4>
<div id="button">
  <button id="exit">Exit</button>
  <button id="continue">Continue</button>
</div>
</div>

<!-- Quiz Section -->
<div id="quiz">
  <div id="quiz_header">
    <h5>Amazing Quiz App</h5>
    <div id="timer">
      <h6>Time Left</h6>
      <h6 id="time">20</h6>
    </div>
  </div>
</div>

<!-- Quiz Questions -->

<div id="question">
  <h2 id="questionNo"></h2>
  <h2 id="questionText"></h2>
</div>

<!-- Quiz Choices -->

<div id="optionList">
  <h4 class="choice_que" id="option1"></h4>
  <h4 class="choice_que" id="option2"></h4>
  <h4 class="choice_que" id="option3"></h4>
  <h4 class="choice_que" id="option4"></h4>
</div>

<!-- Answers Section-->

<div id="answersSection">
  <h3 id="total_correct">3 Of 10 Questions</h3>
  <h3 id="next_question">Next</h3>
</div>
</div>
<!-- Result Section -->
<div id="result">
  <i class="fas fa-trophy"></i>
  <h6>You Have Completed The Quiz</h6>
  <h6 id="points">You Got 4 Out Of 10</h6>
  <button id="quit">Quit Quiz</button>
  <button id="startAgain">Start Again</button>
</div>
</div>
<script src="js/questions.js"></script>
<script src="js/script.js"></script>
<!-- <script src="js/adsaRecursive.js"></script> -->

</body>
</html>

```

Questions.js

```
let MCQS = [{
  question: "What does HTML stand for?",
  choice1: "Hyperlinks and Text Markup Language",
  choice2: "Hyper Text Markup Language",
  choice3: "Hyper Text Making Language",
  choice4: "Hyper Text Mark Language",
  answer: 1
},
  {
    question: "What does CSS stand for?",
    choice1: "Colorful StyleSheet",
    choice2: "Creative Style Sheet",
    choice3: "Cascading Style Sheet",
    choice4: "Computer Style Sheet",
    answer: 2
  },
  {
    question: "Which HTML tag is used to define an internal style sheet?",
    choice1: "<script>",
    choice2: "<style>",
    choice3: "<html>",
    choice4: "<svg>",
    answer: 1
  },
  {
    question: "Which is the correct CSS syntax?",
    choice1: "body{color:black}",
    choice2: "{body{color:black}",
    choice3: "body={color:black}",
    choice4: "body:color{black}",
    answer: 0
  },
  {
    question: "How do you insert a comment in a CSS file?",
    choice1: "/*This is Comment*/",
    choice2: "//This Is Comment",
    choice3: "<!-- This Is Comment --->",
    choice4: "//This Is Comment//",
    answer: 1
  },
  {
    question: "How do you insert a comment in a HTML file?",
    choice1: "/*This is Comment*/",
    choice2: "//This Is Comment",
    choice3: "<!-- This Is Comment --->",
    choice4: "//This Is Comment//",
    answer: 2
  },
  {
    question: "Which property is used to change the background color?",
    choice1: "backgroundColor",
    choice2: "BgColor",
```

```

        choice3: "Color-Background",
        choice4: "background",
        answer: 3
    },{
        question: "How to write an IF statement in JavaScript?",
        choice1: "if i==5",
        choice2: "if(i==5)",
        choice3: "if(i==5)then",
        choice4: "if i==5 then",
        answer: 2
    },
    {
        question: "Inside which HTML element do we put the JavaScript?",
        choice1: "<js></js>",
        choice2: "<javascript></javascript>",
        choice3: "<script></script>",
        choice4: "<scripting>",
        answer: 2
    },
    {
        question: "How does a WHILE loop start?",
        choice1: "while(i <= 0)",
        choice2: "while(i <= 0 i++)",
        choice3: "while i <= 0",
        choice4: "while (i++ i <= 0)",
        answer: 0
    }
    ];

```

Script.js

```

//Start Section
let start = document.querySelector("#start");

//guide Section
let guide = document.querySelector("#guide");
let exit = document.querySelector("#exit");
let continueBtn = document.querySelector("#continue");

//Quiz Section
let quiz = document.querySelector("#quiz");
let time = document.querySelector("#time");

//question Section
let questionNo = document.querySelector("#questionNo");
let questionText = document.querySelector("#questionText");

//Multiple Choices Of Questions
let option1 = document.querySelector("#option1");
let option2 = document.querySelector("#option2");
let option3 = document.querySelector("#option3");
let option4 = document.querySelector("#option4");

```

```

//correct and next Button
let total_correct = document.querySelector("#total_correct");
let next_question = document.querySelector("#next_question");

//Result Section
let result = document.querySelector("#result");
let points = document.querySelector("#points");
let quit = document.querySelector("#quit");
let startAgain = document.querySelector("#startAgain");

//Get All 'H4' From Quiz Section (MCQS)
let choice_que = document.querySelectorAll(".choice_que");

let index = 0;
let timer = 20;
let interval = 0;

//total points
let correct = 0;

//store Answer Value
let UserAns = undefined;

//what happen when 'Start' Button Will Click
start.addEventListener("click", () => {
    start.style.display = "none";
    guide.style.display = "block";
});

//what happen when 'Exit' Button Will Click
exit.addEventListener("click", () => {
    start.style.display = "block";
    guide.style.display = "none";
});

//Creating Timer For Quiz Timer Section

let countDown = () => {
    if (timer === 0) {
        clearInterval(interval);
        next_question.click();
    } else {
        timer--;
        time.innerText = timer;
    }
}

//setInterval(countDown,1000);

let loadData = () => {
    questionNo.innerText = index + 1 + ". ";
    questionText.innerText = MCQS[index].question;
    option1.innerText = MCQS[index].choice1;
    option2.innerText = MCQS[index].choice2;
    option3.innerText = MCQS[index].choice3;
}

```

```

    option4.innerText = MCQS[index].choice4;

    // timer start
    timer = 20;
  }

  loadData();

  //what happen when 'Continue' Button Will Click
  continueBtn.addEventListener("click", () => {
    quiz.style.display = "block";
    guide.style.display = "none";

    interval = setInterval(countDown, 1000);
    loadData();

    // remove All Active Classes When Continue Button Will Click

    choice_que.forEach(removeActive => {
      removeActive.classList.remove("active");
    })

    total_correct.innerHTML = `${correct = 0} Out Of ${MCQS.length} Questions`;
  });

  choice_que.forEach((choices, choiceNo) => {
    choices.addEventListener("click", () => {
      choices.classList.add("active");
      //check answer
      if (choiceNo === MCQS[index].answer) {
        correct++;
      } else {
        correct += 0;
      }
      //stop Counter
      clearInterval(interval);

      //disable All Options When User Select An Option
      for (i = 0; i <= 3; i++) {
        choice_que[i].classList.add("disabled");
      }
    })
  });

  ///what happen when 'Next' Button Will Click
  next_question.addEventListener("click", () => {
    // if index is less then MCQS.length
    if (index !== MCQS.length - 1) {
      index++;
      choice_que.forEach(removeActive => {
        removeActive.classList.remove("active");
      })

      //question
      loadData();
    }
  });

```

```

        //result
        total_correct.style.display = "block";
        total_correct.innerHTML = `${correct} Out Of ${MCQS.length} Questions`;
        clearInterval(interval);
        interval = setInterval(countDown, 1000);
    } else {
        index = 0;

        //when Quiz Question Complete Display Result Section
        clearInterval(interval);
        quiz.style.display = "none";
        points.innerHTML = `You Got ${correct} Out Of ${MCQS.length}`;
        result.style.display = "block";
    }
    for (i = 0; i <= 3; i++) {
        choice_que[i].classList.remove("disabled");
    }
})

//what happen when 'Quit' Button Will Click
quit.addEventListener("click", () => {
    start.style.display = "block";
    result.style.display = "none";
});

//Start Again When 'Start Again' Button Will Clicked
startAgain.addEventListener("click", () => {
    guide.style.display = "block";
    result.style.display = "none";
});

```

Ip.css

```

.dropbtn {
    background-color: whitesmoke;
    color: #ff5235;
    padding: 16px;
    font-size: 16px;
    border: none;
    cursor: pointer;
    padding: 30px 60px 30px;
}
.dropdown {
    /* position: relative; */
    display: inline-block;
    padding-left: 20px;
    padding-top: 50px;
}
.dropdown-content {
    display: none;
    position: relative;
    background-color: rgb(158, 195, 236);
    min-width: 120px;
}

```

```

        box-shadow: 0px 8px 16px 0px rgba(0,0,0,0.2);
        z-index: 1;
        /* padding: 30px 700px 30px; */
        /* right: 0; */
    }
    .dropdown-content a {
        color: whitesmoke;
        padding: 10px 10px;
        text-decoration: none;
        display: block;
        text-align: left;
        padding-left: 1px;
    }
    .dropdown-content a:hover {
        background-color: black;
    }
    .dropdown:hover .dropdown-content {
        display: block;
    }
    .field {
        position: absolute;
        right: 50px;
        bottom: 70px;
    }

```

Style.css

```

* {
    padding: 0;
    margin: 0;
    font-family: 'Exo', sans-serif;
    box-sizing: border-box;
}

body {
    display: grid;
    place-items: center;
    height: 100vh;
    background: #d4e0ee;
}

#container {
    height: auto;
    width: auto;
}

/*Start Section*/
#start {
    height: 70px;
    width: 250px;
    text-align: center;
    padding: 20px 0;
    background: #e7f1fa;
    color: #000;
    font-size: 23px;
    font-weight: 700;
}

```



```
border-radius: 30px 10px;
border: 1px solid #b0c4d8;
cursor: pointer;
/* display: none;*/
}

#start: hover {
background: #ff5235;
color: #e7f1fa;
}

/*guide Section*/
#guide,
#quiz {
height: auto;
width: 580px;
padding: 20px;
background: #e7f1fa;
border-radius: 30px 10px;
border: 1px solid #b0c4d8;
display: none;
}

#guide h2 {
font-size: 60px;
color: #ff5235;
}

#guide h4 {
height: 50px;
width: 100%;
display: flex;
align-items: center;
font-size: 20px;
}

#guide #button {
height: 50px;
width: 100%;
display: flex;
justify-content: flex-end;
}

#guide #button button {
height: 50px;
width: 120px;
margin: 10px 25px;
border: none;
outline: none;
color: #e7f1fa;
background: #ff5235;
border: 1px solid #b0c4d8;
border-radius: 20px 5px;
font-size: 18px;
cursor: pointer;
}
```

```
#guide #button button:last-child {  
    margin: 10px 0;  
}
```

```
#guide #button button:hover {  
    background: #e91e3a;  
}
```

```
#quiz {  
    /* display: block; */  
    height: 480px;  
    position: relative;  
}
```

```
#quiz #quiz_header {  
    height: 60px;  
    width: 100%;  
    background: #fafafc;  
    position: absolute;  
    top: 0;  
    left: 0;  
    display: flex;  
    align-items: center;  
    flex-direction: row;  
    border-radius: 30px 0;  
}
```

```
#quiz #quiz_header h5 {  
    font-size: 28px;  
    margin: 0 20px;  
    color: #ff5235;  
}
```

```
#quiz #quiz_header #timer {  
    height: 50px;  
    width: 200px;  
    background: #ff5235;  
    color: #e7f1fa;  
    border: 1px solid #b0c4d8;  
    font-size: 18px;  
    border-radius: 20px 5px;  
    display: flex;  
    flex-direction: row;  
    position: absolute;  
    right: 10px;  
}
```

```
#quiz #quiz_header #timer h6 {  
    font-size: 22px;  
    display: grid;  
    place-items: center;  
    color: #fff;  
    margin: 0 10px;  
}
```

```
#quiz #quiz_header #timer #time {  
  height: 44px;  
  width: 50px;  
  background: #fff;  
  color: #f69d9e;  
  border: 1px solid #b0c4d8;  
  border-radius: 15px 7px;  
  margin: 2px 0 0 27px;  
}
```

```
/*Quiz Questions*/
```

```
#quiz #question {  
  position: absolute;  
  top: 90px;  
  display: flex;  
  flex-direction: row;  
}
```

```
#quiz #question h2 {  
  font-size: 27px;  
}
```

```
#quiz #question h2:first-child {  
  margin: 0 10px 0 5px;  
}
```

```
/*Quiz Options*/
```

```
#quiz #optionList {  
  height: 400px;  
  width: 100%;  
  position: absolute;  
  top: 160px;  
}
```

```
#quiz #optionList h4 {  
  height: 50px;  
  width: 535px;  
  background: #ff5235;  
  line-height: 50px;  
  margin: 5px 0;  
  border-radius: 7px;  
  padding: 0 20px;  
  font-size: 20px;  
  color: #fff;  
  overflow: hidden;  
  border: 1px solid #b0c4d8;  
  cursor: pointer;  
}
```

```
#quiz #optionList h4:hover {  
  background: #e91e3a;  
}
```

```
#quiz #optionList .active {
  background: #e91e3a;
}

#quiz #optionList .disabled {
  pointer-events: none;
}

/*Answers Section*/

#quiz #answersSection {
  height: 60px;
  width: 100%;
  background: #fafafc;
  position: absolute;
  bottom: 0;
  left: 0;
  display: flex;
  align-items: center;
  flex-direction: row;
  border-radius: 30px 0;
}

#quiz #answersSection h3 {
  margin: 0px 30px;
  display: none;
}

#quiz #answersSection h3:last-child {
  height: 40px;
  width: 100px;
  display: grid;
  place-items: center;
  background: #ff5235;
  position: absolute;
  right: 0;
  color: #fff;
  border: 1px solid #b0c4d8;
  font-size: 18px;
  border-radius: 20px 5px;
  cursor: pointer;
  margin: 0 20px;
}

#quiz #answersSection h3:hover {
  background: #e91e3a;
}

#quiz #answersSection h3:first-child:hover {
  background: none;
}

/*Result Section*/
#container #result {
  height: 500px;
```

```
width: 450px;
padding: 20px;
background: #e7f1fa;
border-radius: 30px 10px;
border: 1px solid #b0c4d8;
overflow: hidden;
position: relative;
display: none;
}

#container #result i {
  font-size: 180px;
  color: #ff5235;
  position: absolute;
  top: 30px;
  left: 120px;
}

#container #result h6 {
  height: 40px;
  width: 87%;
  font-size: 25px;
  position: absolute;
  text-align: center;
  top: 235px;
}

#container #result #points {
  font-size: 30px;
  top: 275px;
}

#container #result button {
  height: 60px;
  width: 260px;
  border: none;
  outline: none;
  background: #ff5235;
  color: #e7f1fa;
  position: absolute;
  left: 105px;
  top: 335px;
  border: 1px solid #b0c4d8;
  border-radius: 20px 5px;
  font-size: 18px;
  cursor: pointer;
}

#container #result button:last-child {
  top: 405px;
}

#container #result button:hover {
  background: #e91e3a;
}
```

9. Result and Discussion:

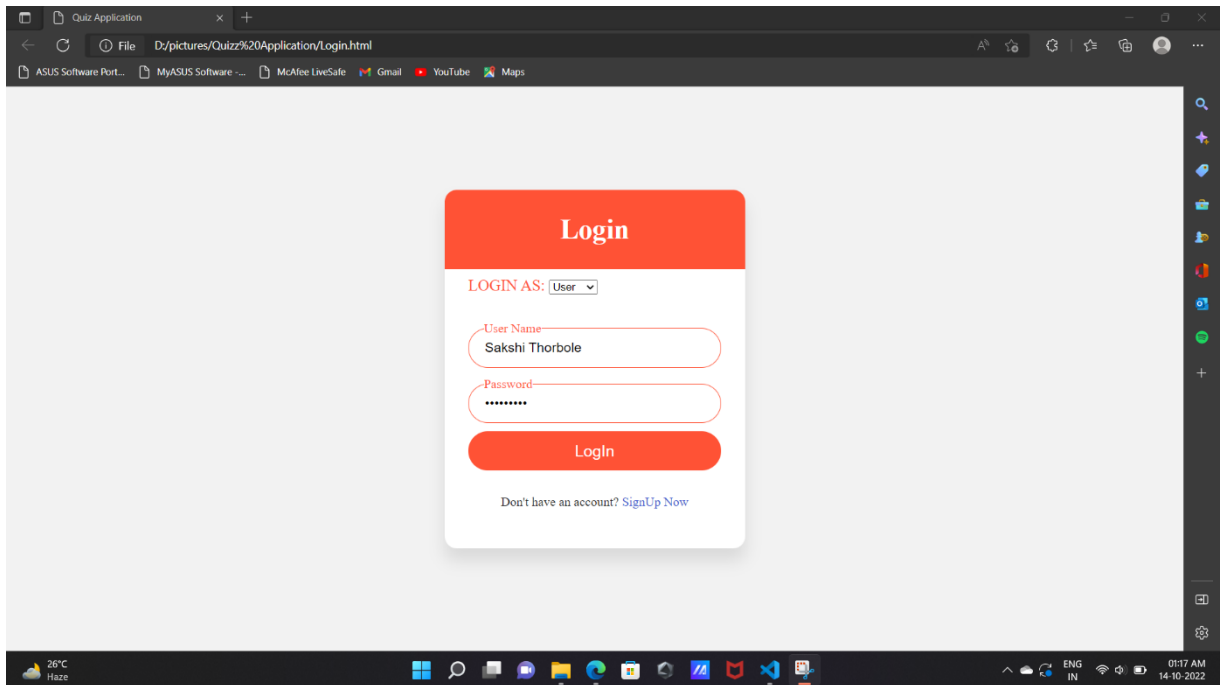


FIG 1: If username and password matches with the database, then user can login successfully.

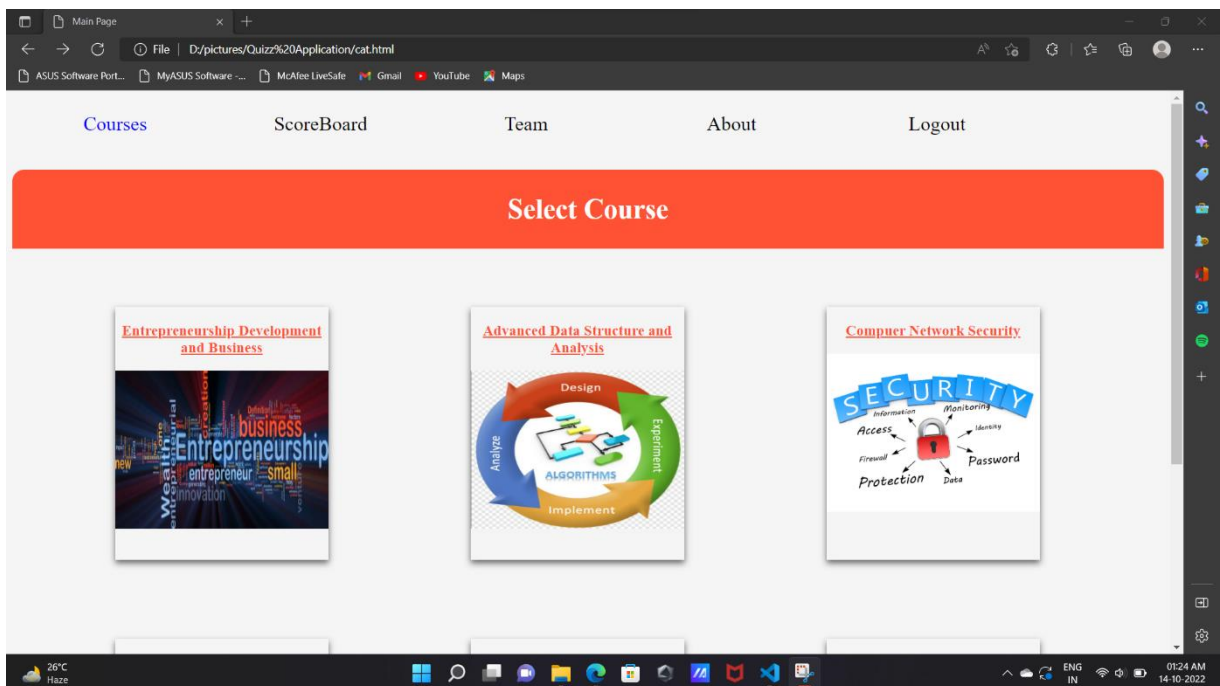


FIG 2: User can select the desired course.

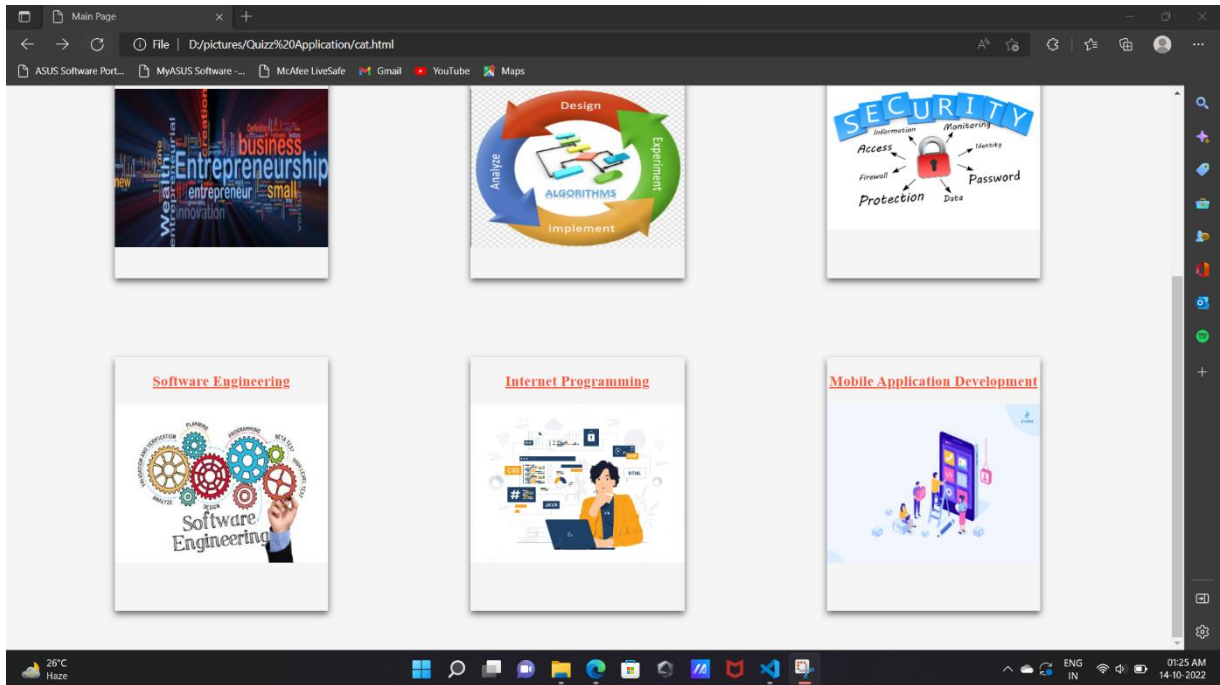


FIG 3: User can select the desired course.

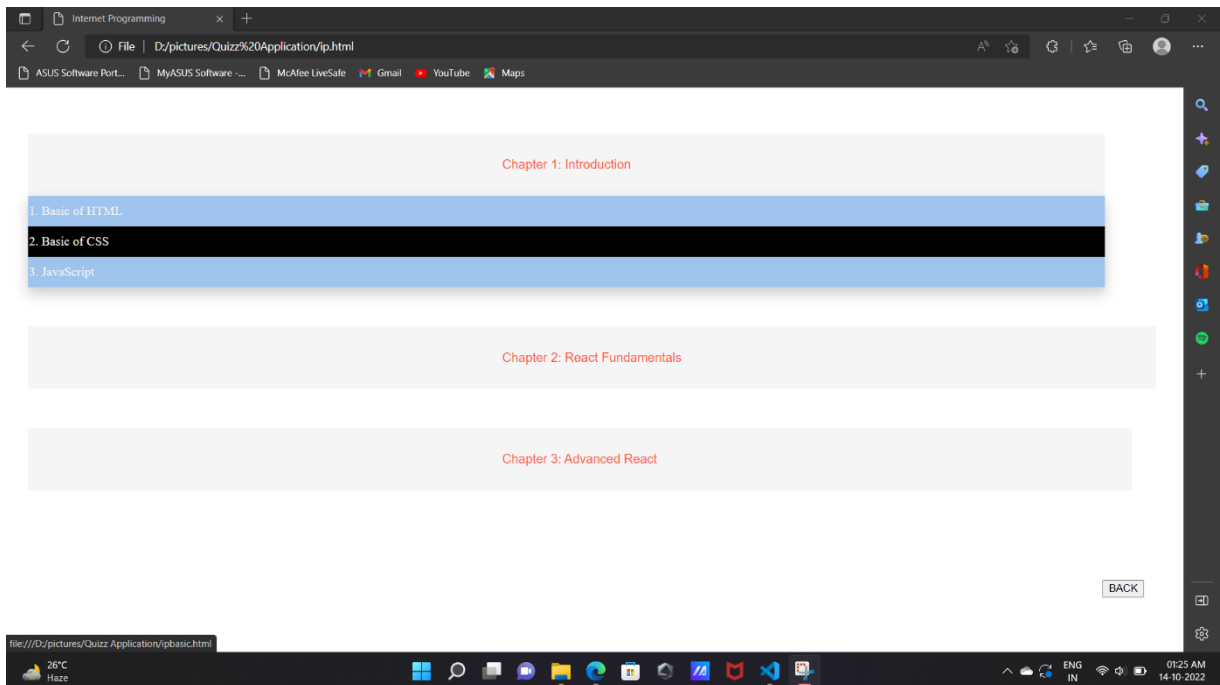


Fig 4: After selecting the course, user can select a sub-topic.

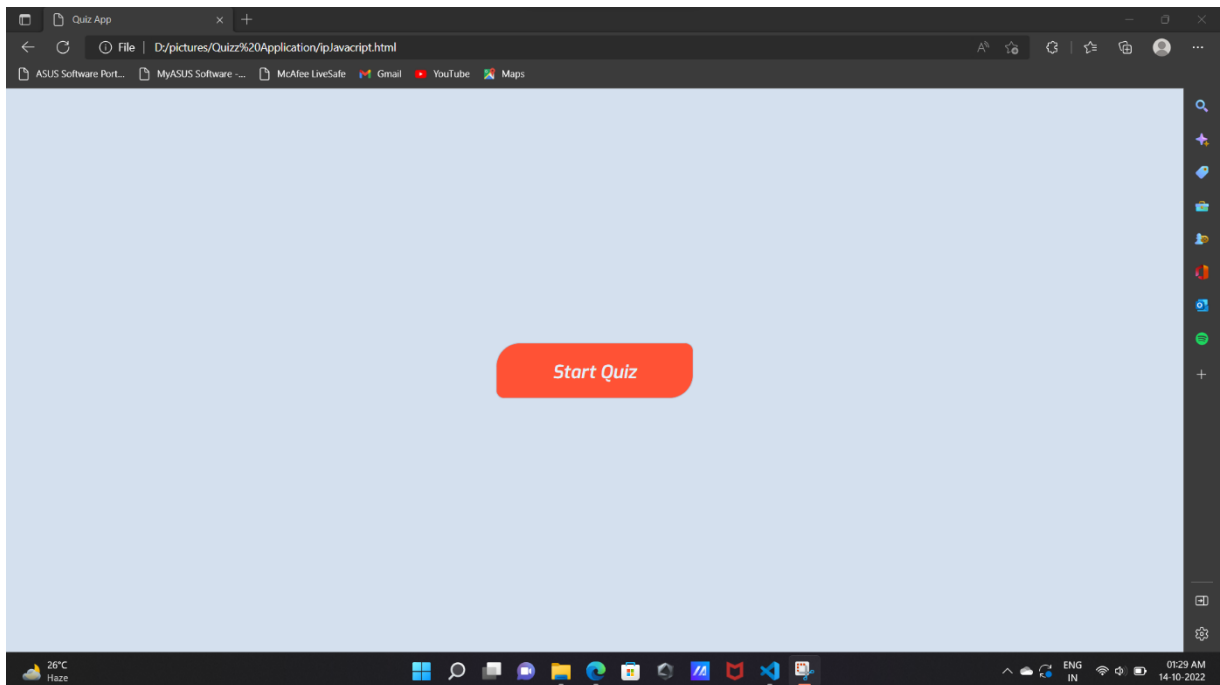


Fig 5: User can start the quiz.

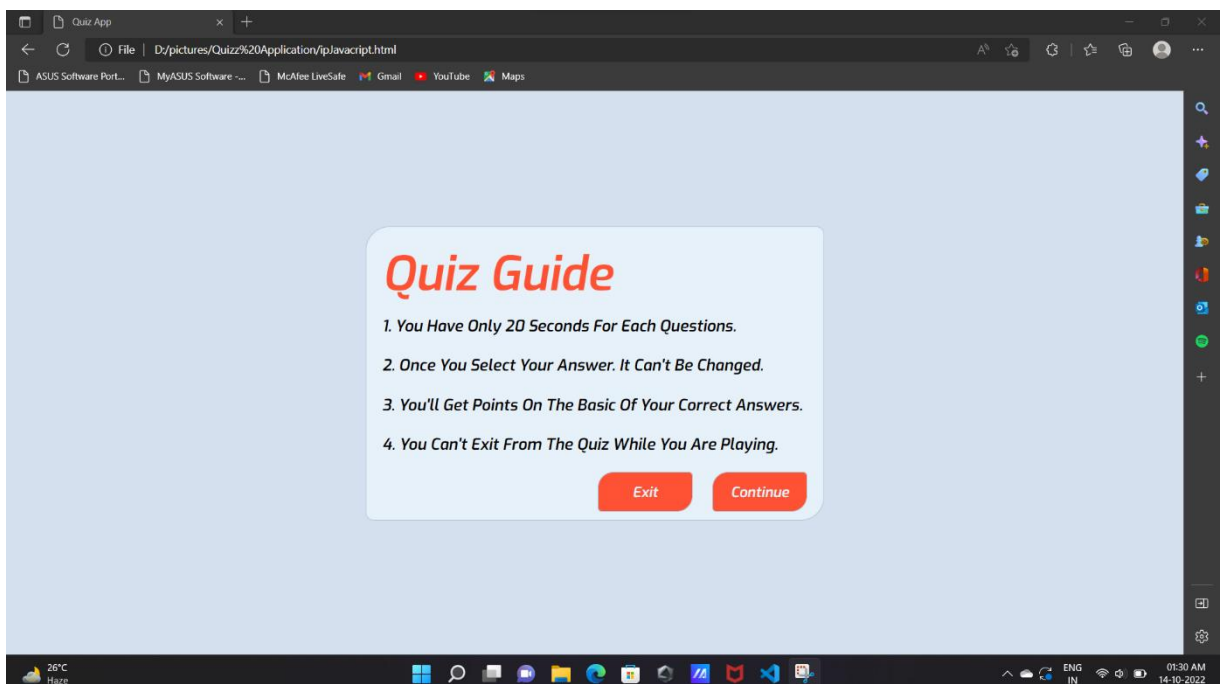


Fig 6: Before attempting the quiz, make sure you read the instructions.

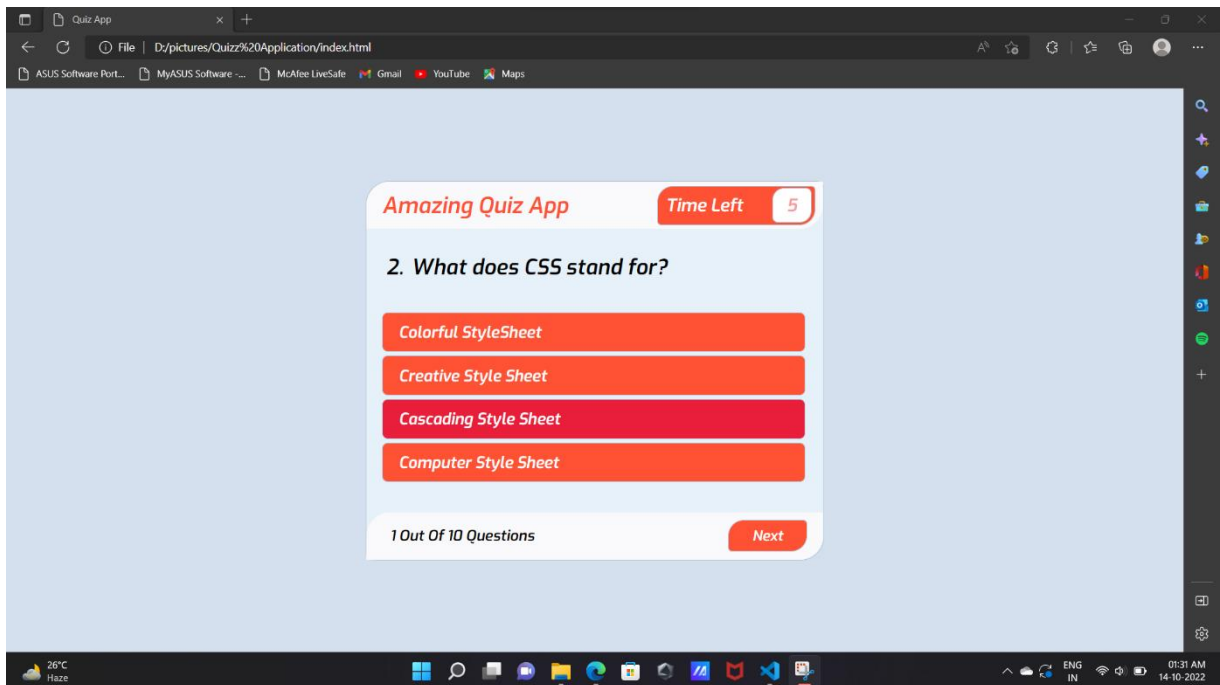


Fig 7: User can now attempt the quiz.

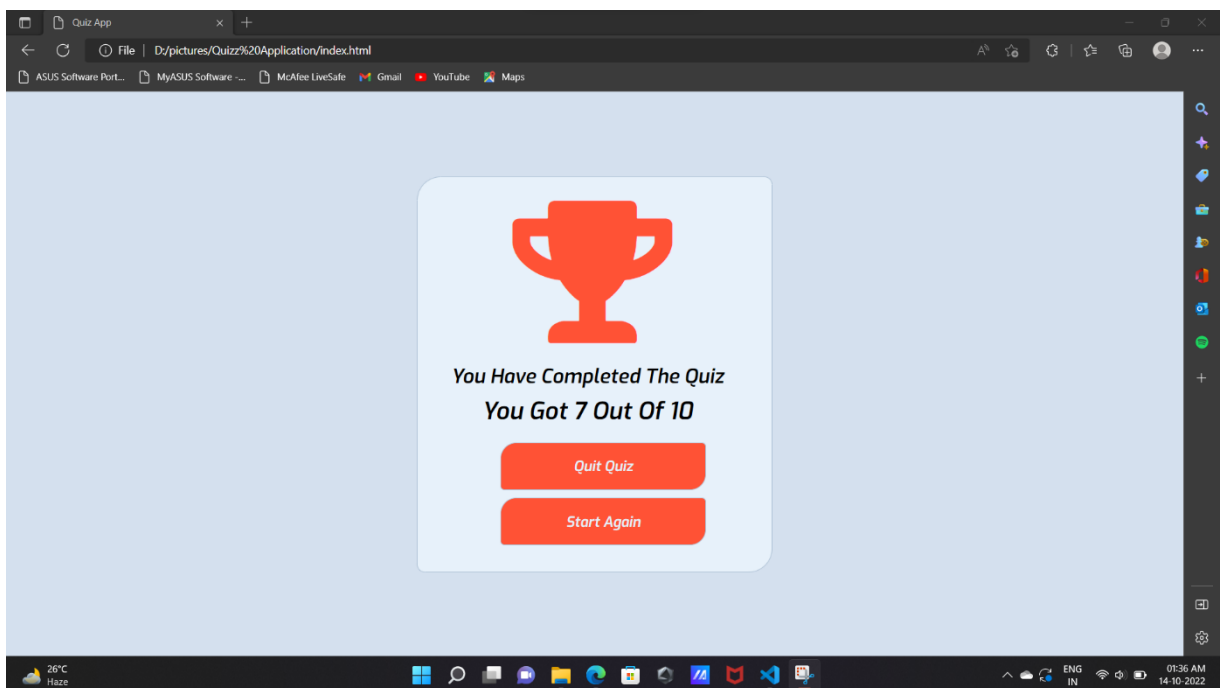


Fig 8: Score is displayed immediately, after attempting the quiz.

10. Conclusion and Future Scope:

Quiz Application project is only for MCQ test but in the future we have plan to extend it to support subjective type of questions with more functionality. The Scope of this project is very broad in terms of gaining knowledge and sharing knowledge among world. Quiz Application can be used anywhere any time as it is a web-based application. This application will be used in educational institutions as well as in corporate world. We will add administrative part on it which able the system to delete test, add user, delete user and so on graphically view the web. To conclude, this is a simple Quiz Application where some part will be store in SQL Server database and the user will able to attempt the quiz. The marks of the user will be calculated according to questions they attempt and will be displayed by the system.

11. References:

- https://www.researchgate.net/publication/303896969_Quizzy_Quiz_Application_development_using_Android_Plartform
- <http://www.warse.org/IJETER/static/pdf/Issue/icacsse2016sp56.pdf>
- https://www.academia.edu/34579184/Quiz_Contest_A_Quiz_Application_A_PROJECT_REPORT_Submitted_by_NAME