**Quiz Application Source Code**

**login.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">

<link rel="stylesheet" href="login.css">

  <link href="https://fonts.googleapis.com/css?family=Ubuntu" rel="stylesheet">

  <link rel="stylesheet" href="path/to/font-awesome/css/font-awesome.min.css">

  <script src="login.js"></script>

  <title>Sign in</title>

</head>

<body>

    <header>

        <h1>Online Test</h1>

    </header>

    <div class="main">

        <p class="sign" align="center">Sign in</p>

        <form action="home.html" class="form1" onsubmit="login()">

          <input class="un " type="text" align="center" placeholder="Username" name="uname"><span id="namelocation" style="color:red"></span>

          <input class="pass" type="password" align="center" placeholder="Password" name="upassword"><span id="passwordlocation" style="color:red"></span>

          <input type="submit" value="Sign in" class="submit" align="center">

          <p class="forgot" align="center"><a href="#">Forgot Password?</p>

        </div>

</div>

</body>

</html>

**login.css**

body {

    background-color: #00DBDE;

    background-image: linear-gradient(90deg, #00DBDE 0%, #FC00FF 100%);

}

.main {

    background-color: #FFFFFF;

    width: 400px;

    height: 400px;

    margin: 7em auto;

    border-radius: 1.5em;

    box-shadow: 0px 11px 35px 2px rgba(0, 0, 0, 0.14);

}

.sign {

    padding-top: 40px;

    font-family: 'Ubuntu', sans-serif;

    font-weight: bold;

    font-size: 23px;

    color: black;

}

.un {

width: 76%;

color: rgb(38, 50, 56);

font-weight: 700;

font-size: 14px;

letter-spacing: 1px;

background: rgba(136, 126, 126, 0.04);

padding: 10px 20px;

border: none;

border-radius: 20px;

outline: none;

box-sizing: border-box;

border: 2px solid rgba(0, 0, 0, 0.02);

margin-bottom: 50px;

margin-left: 46px;

text-align: center;

margin-bottom: 27px;

font-family: 'Ubuntu', sans-serif;

}

form.form1 {

    padding-top: 40px;

}

.pass {

        width: 76%;

color: rgb(38, 50, 56);

font-weight: 700;

font-size: 14px;

letter-spacing: 1px;

background: rgba(136, 126, 126, 0.04);

padding: 10px 20px;

border: none;

border-radius: 20px;

outline: none;

box-sizing: border-box;

border: 2px solid rgba(0, 0, 0, 0.02);

margin-bottom: 50px;

margin-left: 46px;

text-align: center;

margin-bottom: 27px;

font-family: 'Ubuntu', sans-serif;

}

.un:focus, .pass:focus {

    border: 2px solid rgba(0, 0, 0, 0.18) !important;

}

.submit {

  cursor: pointer;

    border-radius: 5em;

    background-color: #00DBDE;

    background-image: linear-gradient(90deg, #00DBDE 0%, #FC00FF 100%);

    border: 0;

    padding-left: 40px;

    padding-right: 40px;

    padding-bottom: 10px;

    padding-top: 10px;

    font-family: 'Ubuntu', sans-serif;

    margin-left: 35%;

    font-size: 15px;

    font-weight: 900;

    box-shadow: 0 0 20px 1px rgba(0, 0, 0, 0.04);

}

.forgot {

    text-shadow: 0px 0px 3px rgba(117, 117, 117, 0.12);

    color: #E1BEE7;

    padding-top: 15px;

}

a {

    text-shadow: 0px 0px 3px rgba(117, 117, 117, 0.12);

    color: #E1BEE7;

    text-decoration: none

}

@media (max-width: 600px) {

    .main {

        border-radius: 0px;

    }

}

    header h1{

        text-align: center;

        background-color: #00DBDE;

    background-image: linear-gradient(90deg, #00DBDE 0%, #FC00FF 100%);

    }

**login.js**

function login()

    {

        var uname = document.form1.getElementsByName("uname").value;

        var pwd = document.form1.getElementsByName("upassword").value;

        var filter = /^([a-zA-Z0-9\_\.\-])+\@(([a-zA-Z0-9\-])+\.)+([a-zA-Z0-9]{2,4})+$/;

        if(uname =='')

        {

            alert("please enter user name.");

        }

        else if(pwd=='')

        {

            alert("enter the password");

        }

        else if(!filter.test(uname))

        {

            alert("Enter valid email id.");

        }

        else if(pwd.length < 6 || pwd.length > 6)

        {

            alert("Password min and max length is 6.");

        }

    }

**home.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>Dashboard</title>

    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

    <link rel="preconnect" href="https://fonts.googleapis.com">

    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

    <link href="https://fonts.googleapis.com/css2?family=Bitter:wght@500&display=swap" rel="stylesheet">

    <link rel="stylesheet" type="text/css" href="home.css">

    <script type="text/javascript" src="home.js"></script>

</head>

<body class="container">

    <div>

        <h1>Welcome to Innovation Quiz</h1>

    </div>

    <input type="submit" id="StartQuiz" value="StartQuiz" class="btn btn-light" onclick="display()" >

    <div id="myData"></div>

</body>

</html>

**home.css**

body{

    background-color: #00DBDE;

    background-image: linear-gradient(90deg, #00DBDE 0%, #FC00FF 100%);

    font-size: 20px;

    font-weight: bolder;

    font-family: 'DM Sans', sans-serif;

}

header{

    text-align: center;

    position: relative;

    top: 40px;

}

.butn{

    position: relative;

    top: 60px;

    left: 100%;

}

#fin{

    margin-left: 1150px;

    margin-bottom: 10px;

}

.quesDiv{

    position: relative;

    top: 90px;

}

p:hover{

    background-color: whitesmoke;

}

h1{

    text-align: center;

    font-weight: 700;

}

.btn{

    margin-left: 45%;

}

.container{

    background-color: #F3EBF6;

}

#score{

    margin-top: 200px;

}

**home.js**

function display(){

  var button = document.getElementById('StartQuiz')

  button.style.display = 'none'

  fetch('questions.json')

  .then(function (response) {

    return response.json();

  })

  .then(function (data) {

    appendData(data);

  })

  .catch(function (err) {

    console.log(err);

  });

}

  function appendData(data) {

    var mainContainer = document.getElementById("myData");

    var div =''

    for (var i = 0; i < data.length; i++) {

      div +=

      `

      <label>${data[i].id}. ${data[i].question}</label>

      <p><input type="radio" name="${data[i].id}"  value = "${data[i].a}"> a. ${data[i].a}</p>

      <p><input type="radio" name="${data[i].id}"  value = "${data[i].b}"> b. ${data[i].b}</p>

      <p><input type="radio" name="${data[i].id}"  value = "${data[i].c}"> c. ${data[i].c}</p>

      <p><input type="radio" name="${data[i].id}"  value = "${data[i].d}"> d. ${data[i].d}</p>

      `

    }

    div += `<div>

    <input type="submit" value="Finish" id="fin" class="btn btn-light" onclick="validate()">

</div>

`

mainContainer.innerHTML = div;

  }

  function validate(){

    var mainContainer = document.getElementById("myData");

    var score = 0;

    fetch('answers.json')

  .then(function (response) {

    return response.json();

  })

  .then(function (ans) {

    for(let i=0; i < ans.length; i++){

      var selected = document.getElementsByName(ans[i].id)

      for(let j = 0; j < selected.length; j++) {

        if(selected[j].checked){

          if(selected[j].value === ans[i].answer){

            score++;

        }

      }

    }

  }

    mainContainer.innerHTML = `<h1 id="score">Your result : ${score}</h1>`

  })

  }

**questions.json**

[

        {

            "id":"1",

            "question":"Who invented the BALLPOINT PEN?",

            "a":"Biro Brothers",

            "b":"Waterman Brothers",

            "c":"Bicc Brothers",

            "d":"Write Brothers"

        },

        {

            "id":"2",

            "question":"In which decade was the first solid state integrated circuit demonstrated?",

            "a":"1950s",

            "b":"1960s",

            "c":"1970s",

            "d":"1980s"

        },

        {

            "id":"3",

            "question":"What J. B. Dunlop invented?",

            "a":"Pneumatic rubber tire",

            "b":"Automobile wheel rim",

            "c":"Rubber boot",

            "d":"Model airplanes"

        },

        {

            "id":"4",

            "question":"Which scientist discovered the radioactive element radium?",

            "a":"Isaac Newton",

            "b":"Albert Einstein",

            "c":"Benjamin Franklin",

            "d":"Marie Curie"

        },

        {

            "id":"5",

            "question":"When was barb wire patented?",

            "a":"1874",

            "b":"1840",

            "c":"1895",

            "d":"1900"

        },

        {

            "id":"6",

            "question":"What is the name of the CalTech seismologist who invented the scale used to measure the magnitude of earthquakes?",

            "a":"Charles Richter",

            "b":"Hiram Walker",

            "c":"Giuseppe Mercalli",

            "d":"Joshua Rumble"

        },

        {

            "id":"7",

            "question":"What Galileo invented?",

            "a":"Barometer",

            "b":"Pendulum clock",

            "c":"Microscope",

            "d":"Thermometer"

        },

        {

            "id":"8",

            "question":"What James Watt invented?",

            "a":"Diving bell",

            "b":"Steam boat",

            "c":"Hot air balloon",

            "d":"Rotary steam engine"

        },

        {

            "id":"9",

            "question":"Who invented Jet Engine?",

            "a":"Sir Frank Whittle",

            "b":"Gottlieb Daimler",

            "c":"Roger Bacon",

            "d":"Lewis E. Waterman"

        },

        {

            "id":"10",

            "question":"What invention caused many deaths while testing it?",

            "a":"Dynamite",

            "b":"Ladders",

            "c":"Race cars",

            "d":"Parachute"

        },

        {

            "id":"11",

            "question":"Who invented Gunpowder?",

            "a":"Ferdinand Von Zeppelin",

            "b":"Sir Frank Whittle",

            "c":"Roger Bacon",

            "d":"Leo H Baekeland"

        },

        {

            "id":"12",

            "question":"What Benjamin Franklin invented?",

            "a":"Bifocal spectacles",

            "b":"Radio",

            "c":"Barometer",

            "d":"Hygrometer"

        },

        {

            "id":"13",

            "question":"Who was the first American female to patent her invention, a method of weaving straw with silk?",

            "a":"Marjorie Joyner",

            "b":"Margaret Knight",

            "c":"Amanda Jones",

            "d":"Mary Kies"

        },

        {

            "id":"14",

            "question":"Who invented Gramophone?",

            "a":"Michael Faraday",

            "b":"Fahrenheit",

            "c":"Sir Alexander Graham Bell",

            "d":"Thomas Alva Edison"

        },

        {

            "id":"15",

            "question":"Who invented Internal Combustion Engine?",

            "a":"Roger Bacon",

            "b":"Karl Benz",

            "c":"Dr. Alan M. Turing",

            "d":"Otto"

        },

        {

            "id":"16",

            "question":"What furniture item was invented by California furniture designer Charles Prior Hall in 1968?",

            "a":"Sofa bed",

            "b":"Captain's chair",

            "c":"Waterbed",

            "d":"Hammock"

        },

        {

            "id":"17",

            "question":"What 'game' was first produced by the Southern Novelty Company in Baltimore, Maryland in 1892?",

            "a":"Frisbee",

            "b":"Monopoly",

            "c":"Ouija board",

            "d":"Ping Pong"

        },

        {

            "id":"18",

            "question":"Who invented the Spinning Jenny?",

            "a":"Thornton Hargreaves",

            "b":"Peter Hargreaves",

            "c":"James Hargreaves",

            "d":"Simon Hargreaves"

        },

        {

            "id":"19",

            "question":"Which insurance salesman invented the fountain pen in 1884?",

            "a":"Lewis Edson Waterman",

            "b":"Sir William Grove",

            "c":"Charles Kettering",

            "d":"George Fountain"

        },

        {

            "id":"20",

            "question":"What charge card, developed in 1950, was the first to be accepted nationally in the US?",

            "a":"Visa",

            "b":"Discover",

            "c":"MasterCharge",

            "d":"Diner's Club"

        }

]

**answers.json**

[

        {

            "id":"1",

            "answer":"Biro Brothers"

        },

        {

            "id":"2",

            "answer":"1950s"

        },

        {

            "id":"3",

            "answer":"Pneumatic rubber tire"

        },

        {

            "id":"4",

            "answer":"Marie Curie"

        },

        {

            "id":"5",

            "answer":"1874"

        },

        {

            "id":"6",

            "answer":"Charles Richter"

        },

        {

            "id":"7",

            "answer":"Thermometer"

        },

        {

            "id":"8",

            "answer":"Rotary steam engine"

        },

        {

            "id":"9",

            "answer":"Sir Frank Whittle"

        },

        {

            "id":"10",

            "answer":"Parachute"

        },

        {

            "id":"11",

            "answer":"Roger Bacon"

        },

        {

            "id":"12",

            "answer":"Bifocal spectacles"

        },

        {

            "id":"13",

            "answer":"Mary Kies"

        },

        {

            "id":"14",

            "answer":"Thomas Alva Edison"

        },

        {

            "id":"15",

            "answer":"Otto"

        },

        {

            "id":"16",

            "answer":"Waterbed"

        },

        {

            "id":"17",

            "answer":"Ouija board"

        },

        {

            "id":"18",

            "answer":"James Hargreaves"

        },

        {

            "id":"19",

            "answer":"Lewis Edson Waterman"

        },

        {

            "id":"20",

            "answer":"Diner's Club"

        }

]