**Source Code of Project**

1]. HTML Code

<!DOCTYPE html>

<html lang="en">

<head>

    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"

        integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

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

    <title>PRAJVAL BHALE</title>

</head>

<body>

    <h1 class="head">Online Quiz Application</h1>

    <div class="start\_quiz"><button type="submit">Start Quiz</button></div>

    <div class="info\_box">

        <div class="info\_title">

            <span>Rules of This Quiz</span>

        </div>

        <div class="list">

            <div class="info">1. All Question are not Required</div>

            <div class="info">2. Each Question Contain's 2 Mark</div>

            <div class="info">3. Each Wrong Answer will Deduct one Correct Answer</div>

            <div class="info">4. Best of Luck</div>

        </div>

        <div class="buttons">

            <button class="exit\_quiz">Exit</button>

            <button class="continue\_quiz">Continue</button>

        </div>

    </div>

    </div>

    <div class="quiz\_box">

        <section>

            <div class="que">

                <!-- <span>What Does HTML Stand's For?</span> -->

            </div>

            <div class="option\_list">

                <!-- <div class="option">

                    <span>Hiper Text Markup Language</span>

                    <div class="icon tick"><i class="fas fa-check"></i></div>

                </div>

                <div class="option">

                    <span>Hiper Text Processor</span>

                    <div class="icon cross"><i class="fas fa-times"></i></div>

                </div>

                <div class="option">

                    <span>Hiper Text Processor</span>

                    <div class="icon cross"><i class="fas fa-times"></i></div>

                </div>

                <div class="option">

                    <span>Hiper Text Processor</span>

                    <div class="icon cross"><i class="fas fa-times"></i></div>

                </div> -->

            </div>

        </section>

        <footer>

            <div class="total\_que">

                <!-- <span>

                     <p>2</p>of<p>5</p>Question

                </span> -->

            </div>

            <button class="next\_btn">Next Question</button>

        </footer>

    </div>

    <!--result-->

    <div class="result\_box">

        <div class="icon">

            <i class="fas fa-crown"></i>

        </div>

        <div class="complete\_text">You Have Completed the Quiz!</div>

        <div class="score\_text">

            <!-- <span>and Sorry you got only <p>2</p>Out of <p>5</p></span> -->

        </div>

        <div class="buttons">

            <button class="continue\_quiz">Take Again</button>

            <button class="exit\_quiz">Exit</button>

        </div>

    </div>

    <script src="js/javascr.js"></script>

    <script src="js/que.js"></script>

</body>

</html>

2]. CSS Code

.head{

    color: green;

    padding: 200px 450px;

}

body{

    background: #7bff7b;

}

.start\_quiz,

.info\_box,

.quiz\_box,

.result\_box{

    position: absolute;

    top: 50%;

    left: 50%;

    transform: translate(-50%, -50%);

}

.start\_quiz button{

    font-size: 25px;

    font-weight: 500;

    font-family: Georgia, serif;

    color:black;

    padding: 15px 30px;

    outline: none;

    border: none;

    border-radius: 5px;

    background: violet;

    cursor: pointer;

}

.info\_box{

    width: 540px;

    background: #fff;

    border-radius: 5px;

    opacity: 0;

    pointer-events: none;

    transform: translate(-50%, -50%) scale(0.9);

}

.info\_box .info\_title {

    height: 60px;

    width: 100%;

    border-bottom: 1px solid lightgray;

    display: flex;

    align-items: center;

    padding: 0 45px;

    font-size: 20px;

    font-weight: 600;

}

.info\_box.activeInfo,

.quiz\_box.activeQuiz,

.result\_box.activeResult{

    z-index: 5;

    opacity: 1;

    pointer-events: auto;

    transform: translate(-50%, -50%) scale(1);

}

.info\_box .list{

    padding: 15px 35px;

}

.info\_box .list .info{

    margin: 7px 0;

    font-size: 17px;

}

.info\_box .buttons{

    height: 60px;

    display: flex;

    align-items: center;

    justify-content: flex-end;

    padding: 0 35px;

    border-top: 1px solid lightgray;

}

.info\_box .buttons button{

    margin: 0 5px;

    height: 40px;

    width: 100px;

    border: 1px solid transparent;

    cursor: pointer;

    border-radius: 5px;

    color: #fff;

    font-size: 16px;

    font-weight: 500;

    transition: all 0.3s ease;

}

.buttons button.continue\_quiz{

    outline: none;

    color: #fff;

    background: violet;

}

.buttons button.continue\_quiz:hover{

   background: #7bff7b;

}

.buttons button.exit\_quiz{

    color: #007bff;

}

.buttons button.exit\_quiz:hover{

    background: #7bff7b;

}

.quiz\_box{

    width: 550px;

    background: #fff;

    border-radius: 5px;

    margin: 0 35px;

    opacity: 0;

    pointer-events: none;

    transform: translate(-50%, -50%) scale(0.9);

}

.quiz\_box section{

    padding: 25px 30px 20px 30px;

    background: #fff;

}

.quiz\_box section .que{

    font-size: 25px;

    font-weight: 600;

}

.quiz\_box section .option\_list{

    padding: 20px 0;

    display: block;

}

section .option\_list .option{

    background: aliceblue;

    border: 1px solid #84c5fe;

    border-radius: 5px;

    padding: 8px 15px;

    margin-bottom: 15px;

    display: flex;

    align-items: center;

    justify-content: space-between;

    cursor: pointer;

    transition: all 0.3s ease;

}

section .option\_list .option:hover{

    color: #004085;

    background: #cce5ff;

    border-color: #b8daff;

}

.option\_list .option:last-child{

    margin-bottom: 0px;

}

.option\_list .option .icon{

    height: 26px;

    width: 26px;

    border: 2px solid transparent;

    border-radius: 50%;

    text-align: center;

    font-size: 13px;

    line-height: 24px;

    pointer-events: none;

}

.option\_list .option .icon.tick{

    color: #155724;

    border-color: #d4edda;

    background: #155724;

}

.option\_list .option.correct{

    color: #155724;

    border-color: #d4edda;

    background: #c3e6cb;

}

.option\_list .option.incorrect{

    color: #721c24;

    border-color: #f8d7da;

    background: #f5c6cb;

}

.option\_list .option .icon.cross{

    color: #a42834;

    border-color: #f8d7da;

    background: #a42834;

}

.option\_list .option.disabled{

    pointer-events: none;

}

.quiz\_box footer{

    height: 60px;

    width: 100%;

    padding: 0 30px;

    display: flex;

    align-items: center;

    justify-content: space-between;

}

.quiz\_box footer .total\_que span{

    display: flex;

    user-select: none;

}

footer .total\_que span p{

    font-weight: 500;

    padding: 0 5px;

}

.total\_que span p:first-child{

    padding-left: 0px;

}

footer .next\_btn{

    display: none;

    height: 40px;

    padding: 0 14px;

    font-size: 18px;

    font-weight: 400;

    border: none;

    outline: none;

    color: #fff;

    background: #007bff;

    border-radius: 5px;

    border: 1px solid #007bff;

    cursor: pointer;

    transition: all 0.3s ease;

}

footer .next\_btn:hover{

    background: #0263ca;

}

.result\_box{

    background: #fff;

    width: 450px;

    padding: 25px 30px;

    border-radius: 5px;

    display: flex;

    text-align: center;

    align-items: center;

    flex-direction: column;

    justify-content: space-between;

    opacity: 0;

    pointer-events: none;

    transform: translate(-50%, -50%) scale(0.9);

}

.result\_box .icon{

    font-size: 100px;

    color: #007bff;

    margin-bottom: 10px;

}

.result\_box .complete\_text{

    font-size: 20px;

    font-weight: 500;

}

.result\_box .score\_text span{

    display: flex;

    margin: 10px 0;

    font-size: 18px;

    font-weight: 500;

}

.score\_text span p{

    font-weight: 600;

    padding: 0 4px;

}

.result\_box .buttons{

    display: flex;

    margin: 20px 0;

}

.result\_box .buttons button{

    margin: 0 10px;

    height: 40px;

    padding: 0 20px;

    border: none;

    outline: none;

    font-size: 18px;

    font-weight: 500;

    border-radius: 5px;

    border: none;

    cursor: pointer;

    transition: all 0.3s ease;

}

3]. CSS Code

2). All validation js folder:

const start\_quiz = document.querySelector(".start\_quiz button");

const info\_box = document.querySelector(".info\_box");

const exit\_btn = document.querySelector(".buttons .exit\_quiz");

const continue\_btn = document.querySelector(".buttons .continue\_quiz");

const quiz\_box = document.querySelector(".quiz\_box");

const option\_list = document.querySelector(".option\_list");

//IF WE CLICK ON START BUTTON

start\_quiz.onclick = () => {

    info\_box.classList.add("activeInfo") //<-- this showes information box

}

//IF WE CLICK ON EXIT BUTTON

exit\_btn.onclick = () => {

    info\_box.classList.remove("activeInfo") //<-- this will hide the info box

}

//IF WE CLICK ON START BUTTON

continue\_btn.onclick = () => {

    info\_box.classList.remove("activeInfo") //<-- this will hide the info box

    quiz\_box.classList.add("activeQuiz") //<-- this will show the quiz box

    showQue(0);

    BottomQueCount(1);

}

let que\_count = 0;

let que\_no = 1;

let score = 0;

const next\_btn = quiz\_box.querySelector(".next\_btn");

const result\_box = document.querySelector(".result\_box");

const continue\_quiz = result\_box.querySelector(".buttons .continue\_quiz");

const exit\_quiz = result\_box.querySelector(".buttons .exit\_quiz");

continue\_quiz.onclick = () => {

    quiz\_box.classList.add("activeQuiz") //<-- this will hide the info box

    result\_box.classList.remove("activeResult") //<-- this will show the quiz box

    let que\_count = 0;

    let que\_no = 1;

    let score = 0;

    showQue(que\_count);

    BottomQueCount(que\_no);

    next\_btn.style.display = "none";

}

exit\_quiz.onclick = () => {

    window.location.reload();

}

next\_btn.onclick = () => {

    if (que\_count < questions.length - 1) {

        que\_count++;

        que\_no++;

        showQue(que\_count);

        BottomQueCount(que\_no);

        next\_btn.style.display = "none";

    } else {

        console.log("Question Completed");

        resultBox();

    }

}

//show questions

function showQue(index) {

    const que\_text = document.querySelector(".que");

    let que\_tag = '<span>' + questions[index].numb + "]. " + questions[index].question + '</span>';

    let option\_tag = '<div class="option"><span>' + questions[index].option[0] + '</span></div>'

        + '<div class="option"><span>' + questions[index].option[1] + '</span></div>'

        + '<div class="option"><span>' + questions[index].option[2] + '</span></div>'

        + '<div class="option"><span>' + questions[index].option[3] + '</span></div>';

    que\_text.innerHTML = que\_tag;

    option\_list.innerHTML = option\_tag;

    const options = option\_list.querySelectorAll(".option");

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

        options[i].setAttribute("onclick", "optionSelected(this)")

    }

}

let tickicon = '<div class="icon tick"><i class="fas fa-check"></i></div>';

let crossicon = '<div class="icon cross"><i class="fas fa-times"></i></div>';

let banicon = '<div class="icon ban"><i class="fas fa-ban"></i></div>';

//this work for selected answer is write or wrong

function optionSelected(answer) {

    let userAns = answer.textContent;

    let correctAns = questions[que\_count].answer;

    let remainOption = option\_list.children.length;

    if (userAns == correctAns) {

        score += 1;

        console.log(score);

        answer.classList.add("correct");

        console.log("Answer is Correct");

        answer.insertAdjacentHTML("beforeend", tickicon);

    } else {

        answer.classList.add("incorrect");

        console.log("Wrong Answer");

        answer.insertAdjacentHTML("beforeend", crossicon);

        //this work if answer is incorrect then correct answer will show

        for (let i = 0; i < remainOption; i++) {

            if (option\_list.children[i].textContent == correctAns) {

                option\_list.children[i].setAttribute("class", "option correct")

                option\_list.children[i].insertAdjacentHTML("beforeend", tickicon);

            }

        }

    }

    //this work for once option selected remaining options will disabled

    for (let i = 0; i < remainOption; i++) {

        option\_list.children[i].classList.add("disabled");

    }

    next\_btn.style.display = "block";

}

//this work for to show us result

function resultBox() {

    info\_box.classList.remove("activeInfo") //<-- this will hide the info box

    quiz\_box.classList.remove("activeQuiz") //<-- this will hide the quiz box

    result\_box.classList.add("activeResult") //<-- this will show the result box

    const Scoreis = result\_box.querySelector(".score\_text"); //<-- this will store and display score

    if (score > 3) {

        let scoreTag = '<span>and Congracts you got <p>' + score + '</p>Out of <p>' + questions.length + '</p></span>';

        Scoreis.innerHTML = scoreTag;

    } else

        if (score > 1) {

            let scoreTag = '<span>and Nice you got <p>' + score + '</p>Out of <p>' + questions.length + '</p></span>';

            Scoreis.innerHTML = scoreTag;

        } else {

            let scoreTag = '<span>and Sorry you got only <p>' + score + '</p>Out of <p>' + questions.length + '</p></span>';

            Scoreis.innerHTML = scoreTag;

        }

}

//this will show bottom question count

function BottomQueCount(index) {

    const bottom\_que\_count = quiz\_box.querySelector(".total\_que");

    let totalQueCountTag = '<span><p>' + index + '</p>of<p>' + questions.length + '</p>Question</span>'; // + index + '</p>Out of <p>' +  + '</p>Questions</span>';

    bottom\_que\_count.innerHTML = totalQueCountTag;

}

1). Question js folder:

let questions =

[

    {

        numb : 1,

        question : "What Does HTML Stand's For?",

        answer : "Hiper Text Markup Language",

        option:

        [

            "Hiper Text Markup Language",

            "Hiper Text Processor",

            "Hiper Text Processor",

            "Hiper Text Processor"

        ]

    },

    {

        numb : 2,

        question : "What Does CSS Stand's For?",

        answer : "Cascade Style Sheet",

        option:

        [

            "Cascade Style Sheet",

            "Cursor Style Sheet",

            "Style Sheet Cascade",

            "Hiper Text Processor"

        ]

    },

    {

        numb : 3,

        question : "What Does SQL Stand's For?",

        answer : "Structured Query Language",

        option:

        [

            "Standard Query Language",

            "Cursor Style Sheet",

            "Style Sheet Cascade",

            "Structured Query Language"

        ]

    },

    {

        numb : 4,

        question : "What Does UPSC Stand's For?",

        answer : "Union Public Service Commision",

        option:

        [

            "Central Union Public Service Commision",

            "Uttar Pradesh Public Commision",

            "Style Sheet Cascade",

            "Union Public Service Commision"

        ]

    },

    {

        numb : 5,

        question : "What Does MPSC Stand's For?",

        answer : "Maharashtra Public Service Commision",

        option:

        [

            "Madhya Pradesh Service Commision",

            "Madrass Public Service Commision",

            "Maharashtra Public Service Commision",

            "Hiper Text Processor"

        ]

    }

]