<!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">

    <link rel="stylesheet" href="style1.css">

    <title>Quiz App using JavaScript</title>

</head>

<body>

    <div class="alert">Alert</div>

    <div class="btn startBtn">Start</div>

    <div class="container">

        <h1>Are You A Real Marvel Fan?</h1>

        <div class="question"></div>

        <div class="choices"></div>

        <button class="btn nextBtn">Next</button>

        <div class="scoreCard"></div>

        <div class="timer"></div>

    </div>

    <script src="script1.js"></script>

</body>

</html>

Style

\* {

    margin: 0;

    padding: 0;

    box-sizing: border-box;

    font-family: Verdana, Geneva, Tahoma, sans-serif;

}

body {

    width: 100%;

    height: 100vh;

    background-image: url('marvel-cinematic-universe-jm-1920x1080.jpg');

    background-size: cover;

    background-repeat: no-repeat;

    background-position: center;

    color: #fff;

    display: grid;

    place-items: center;

}

.container {

    width: 80%;

    max-width: 850px;

    padding: 30px;

    text-align: center;

    display: none;

}

.container h1 {

    font-size: 36px;

    margin-bottom: 40px;

    text-decoration: underline;

    text-underline-offset: 8px;

}

.container .question {

    font-size: 26px;

    margin-top: 20px;

}

.container .choices {

    margin-top: 20px;

}

.choice {

    font-size: 20px;

    background-color: #eee;

    color: #000;

    margin: 10px auto;

    padding: 10px;

    border-radius: 5px;

    text-align: left;

    width: 60%;

    cursor: pointer;

    opacity: 0;

    transform: translateY(50%);

    animation: fade-in 0.5s ease forwards;

}

.choice:hover{

    background-color: #ddd;

}

.choice.selected{

    background-color: #007bff;

    color: #fff;

}

.btn{

    width: 60%;

    font-size: 20px;

    font-weight: 600;

    padding: 12px 20px;

    margin: 20px auto 0 auto;

    background-color: #006400;

    color: #fff;

    border: none;

    border-radius: 5px;

    cursor: pointer;

}

.btn:hover{

    background-color: #08780c;

}

.scoreCard{

    font-size: 24px;

    margin-top: 20px;

}

.alert{

    background-color: #5d9b63;

    border-radius: 5px;

    width: 100%;

    padding: 12px;

    position: absolute;

    top: 0;

    display: none;

}

        .startBtn {

            width: 15%;

            padding-block: 20px;

            text-align: center;

            margin-top: -30px;

        }

.timer{

    position: absolute;

    top: 20px;

    right: 20px;

    width: 72px;

    height: 72px;

    border-radius: 50%;

    background-color: #08203e;

    border: 2px solid #f00;

    font-size: 24px;

    font-weight: 600;

    padding: 12px;

    display: flex;

    justify-content: center;

    align-items: center;

    animation: pulse 1s ease-in-out infinite;

}

/\* Adding Animation to Timer \*/

@keyframes pulse{

    0%{

        transform: scale(1);

    }

    50%{

        transform: scale(1.2);

    }

    100%{

        transform: scale(1);

    }

}

/\* Adding Animation to choices \*/

@keyframes fade-in{

    0%{

        opacity: 0;

        transform: translateY(50%);

    }

    100%{

        opacity: 1;

        transform: translateY(0);

    }

}

@media screen and (max-width:900px){

    .container {

        width: 100%;

        margin-top: 50px;

    }

    .container h1{

        font-size: 24px;

    }

    .container .question{

        font-size: 22px;

    }

    .timer{

        width: 50px;

        height: 50px;

        font-size: 20px;

    }

    .startBtn{

        width: 50%;

    }

}

const container = document.querySelector('.container');

const questionBox = document.querySelector('.question');

const choicesBox = document.querySelector('.choices');

const nextBtn = document.querySelector('.nextBtn');

const scoreCard = document.querySelector('.scoreCard');

const alert = document.querySelector('.alert');

const startBtn = document.querySelector('.startBtn');

const timer = document.querySelector('.timer');

const quiz = [

        {

            question: "Q. Who is known as the 'God of Thunder' in the Marvel Universe?",

            choices: ["Iron Man", "Captain America", "Thor", "Hulk"],

            answer: "Thor"

        },

        {

            question: "Q. What is the real name of the superhero 'Black Widow'?",

            choices: ["Natasha Romanoff", "Wanda Maximoff", "Carol Danvers", "Jessica Jones"],

            answer: "Natasha Romanoff"

        },

        {

            question: "Q. Which Marvel character possesses the ability to change his size at will?",

            choices: ["Ant-Man", "Spider-Man", "Doctor Strange", "Black Panther"],

            answer: "Ant-Man"

        },

        {

            question: "Q. What is the name of Tony Stark's AI assistant in his Iron Man suit?",

            choices: ["J.A.R.V.I.S.", "C.O.L.O.S.S.U.S.", "S.H.I.E.L.D.", "H.A.L. 9000"],

            answer: "J.A.R.V.I.S."

        },

       {

            question: "Q. What is the real name of the mutant superhero 'Wolverine'?",

            choices: ["Bruce Banner", "Peter Parker", "Logan", "Scott Summers"],

             answer: "Logan"

       },

       {

        question: "Q. Which Marvel character is known as the 'Merc with a Mouth'?",

        choices: ["Captain America", "Deadpool", "Black Panther", "Green Goblin"],

        answer: "Deadpool"

     },

       {

        question: "Q. What is the name of the mystical artifact that Doctor Strange uses to manipulate time?",

        choices: ["The Tesseract", "The Eye of Agamotto", "The Cosmic Cube", "The Infinity Gauntlet"],

        answer: "The Eye of Agamotto"

       },

       {

        question: "Q. Which superhero is also a brilliant scientist and inventor known for creating advanced suits of armor?",

        choices: ["Hawkeye", "Spider-Man", "Iron Man", "Black Widow"],

        answer: "Iron Man"

     },

       {

        question: "Q. What is the name of the alien race that invaded Earth in the first 'Avengers' film?",

        choices: ["The Kree", "The Skrulls", "The Chitauri", "The Shi'ar"],

        answer: "The Chitauri"

       },

       {

        question: "Q. Which Marvel superhero is the king of the African nation of Wakanda?",

        choices: ["Black Bolt", "Falcon", "Black Panther", "Blade"],

        answer: "Black Panther"

       },

];

let currentQuestionIndex = 0;

let score = 0;

let quizOver = false;

let timeLeft = 15;

let timerID = null;

const showQuestions = () => {

    const questionDetails = quiz[currentQuestionIndex];

    questionBox.textContent = questionDetails.question;

    choicesBox.textContent = "";

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

        const currentChoice = questionDetails.choices[i];

        const choiceDiv = document.createElement('div');

        choiceDiv.textContent = currentChoice;

        choiceDiv.classList.add('choice');

        choicesBox.appendChild(choiceDiv);

        choiceDiv.addEventListener('click', () => {

            if (choiceDiv.classList.contains('selected')) {

                choiceDiv.classList.remove('selected');

            }

            else {

                choiceDiv.classList.add('selected');

            }

        });

    }

    if(currentQuestionIndex < quiz.length){

        startTimer();

    }

}

const checkAnswer = () => {

    const selectedChoice = document.querySelector('.choice.selected');

    if (selectedChoice.textContent === quiz[currentQuestionIndex].answer) {

        // alert("Correct Answer!");

        displayAlert("Correct Answer!");

        score++;

    }

    else {

        // alert("Wrong answer");

        displayAlert(`Wrong Answer! ${quiz[currentQuestionIndex].answer} is the Correct Answer`);

    }

    timeLeft = 15;

    currentQuestionIndex++;

    if (currentQuestionIndex < quiz.length) {

        showQuestions();

    }

    else {

        stopTimer();

        showScore();

    }

}

const showScore = () => {

    questionBox.textContent = "";

    choicesBox.textContent = "";

    scoreCard.textContent = `You Scored ${score} out of ${quiz.length}!`;

    displayAlert("You have completed this quiz!");

    nextBtn.textContent = "Play Again";

    quizOver = true;

    timer.style.display = "none";

}

const displayAlert = (msg) => {

    alert.style.display = "block";

    alert.textContent = msg;

    setTimeout(()=>{

        alert.style.display = "none";

    }, 2000);

}

const startTimer = () => {

    clearInterval(timerID);

    timer.textContent = timeLeft;

    const countDown = ()=>{

        timeLeft--;

        timer.textContent = timeLeft;

        if(timeLeft === 0){

            const confirmUser = confirm("Time Up!!! Do you want to play the quiz again");

            if(confirmUser){

                timeLeft = 15;

                startQuiz();

            }

            else{

                startBtn.style.display = "block";

                container.style.display = "none";

                return;

            }

        }

    }

    timerID = setInterval(countDown, 1000);

}

const stopTimer = () =>{

    clearInterval(timerID);

}

const shuffleQuestions = () =>{

    for(let i=quiz.length-1; i>0; i--){

        const j = Math.floor(Math.random() \* (i+1));

        [quiz[i], quiz[j]] = [quiz[j], quiz[i]];

    }

    currentQuestionIndex = 0;

    showQuestions();

}

const startQuiz = () =>{

    timeLeft = 15;

    timer.style.display = "flex";

    shuffleQuestions();

}

startBtn.addEventListener('click', ()=>{

    startBtn.style.display = "none";

    container.style.display = "block";

    startQuiz();

});

nextBtn.addEventListener('click', () => {

    const selectedChoice = document.querySelector('.choice.selected');

    if (!selectedChoice && nextBtn.textContent === "Next") {

        // alert("Select your answer");

        displayAlert("Select your answer");

        return;

    }

    if (quizOver) {

        nextBtn.textContent = "Next";

        scoreCard.textContent = "";

        currentQuestionIndex = 0;

        quizOver = false;

        score = 0;

        startQuiz();

    }

    else {

        checkAnswer();

    }

});