**Project -Quiz**

Html

<!DOCTYPE html>

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<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Awesome Quiz App | CodingNepal</title>

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

<!-- FontAweome CDN Link for Icons -->

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.3/css/all.min.css"/>

</head>

<body>

<!-- start Quiz button -->

<div class="start\_btn"><button>Start Quiz</button></div>

<!-- Info Box -->

<div class="info\_box">

<div class="info-title"><span>Some Rules of this Quiz</span></div>

<div class="info-list">

<div class="info">1. You will have only <span>15 seconds</span> per each question.</div>

<div class="info">2. Once you select your answer, it can't be undone.</div>

<div class="info">3. You can't select any option once time goes off.</div>

<div class="info">4. You can't exit from the Quiz while you're playing.</div>

<div class="info">5. You'll get points on the basis of your correct answers.</div>

</div>

<div class="buttons">

<button class="quit">Exit Quiz</button>

<button class="restart">Continue</button>

</div>

</div>

<!-- Quiz Box -->

<div class="quiz\_box">

<header>

<div class="title">Awesome Quiz Application</div>

<div class="timer">

<div class="time\_left\_txt">Time Left</div>

<div class="timer\_sec">15</div>

</div>

<div class="time\_line"></div>

</header>

<section>

<div class="que\_text">

<!-- Here I've inserted question from JavaScript -->

</div>

<div class="option\_list">

<!-- Here I've inserted options from JavaScript -->

</div>

</section>

<!-- footer of Quiz Box -->

<footer>

<div class="total\_que">

<!-- Here I've inserted Question Count Number from JavaScript -->

</div>

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

</footer>

</div>

<!-- Result Box -->

<div class="result\_box">

<div class="icon">

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

</div>

<div class="complete\_text">You've completed the Quiz!</div>

<div class="score\_text">

<!-- Here I've inserted Score Result from JavaScript -->

</div>

<div class="buttons">

<button class="restart">Replay Quiz</button>

<button class="quit">Quit Quiz</button>

</div>

</div>

<!-- Inside this JavaScript file I've inserted Questions and Options only -->

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

<!-- Inside this JavaScript file I've coded all Quiz Codes -->

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

</body>

</html>

</html>

CSS

/\* importing google fonts \*/

@import url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700&display=swap');

\*{

margin: 0;

padding: 0;

box-sizing: border-box;

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

}

body{

background: #007bff;

}

::selection{

color: #fff;

background: #007bff;

}

.start\_btn,

.info\_box,

.quiz\_box,

.result\_box{

position: absolute;

top: 50%;

left: 50%;

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

box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2),

0 6px 20px 0 rgba(0, 0, 0, 0.19);

}

.info\_box.activeInfo,

.quiz\_box.activeQuiz,

.result\_box.activeResult{

opacity: 1;

z-index: 5;

pointer-events: auto;

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

}

.start\_btn button{

font-size: 25px;

font-weight: 500;

color: #007bff;

padding: 15px 30px;

outline: none;

border: none;

border-radius: 5px;

background: #fff;

cursor: pointer;

}

.info\_box{

width: 540px;

background: #fff;

border-radius: 5px;

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

opacity: 0;

pointer-events: none;

transition: all 0.3s ease;

}

.info\_box .info-title{

height: 60px;

width: 100%;

border-bottom: 1px solid lightgrey;

display: flex;

align-items: center;

padding: 0 30px;

border-radius: 5px 5px 0 0;

font-size: 20px;

font-weight: 600;

}

.info\_box .info-list{

padding: 15px 30px;

}

.info\_box .info-list .info{

margin: 5px 0;

font-size: 17px;

}

.info\_box .info-list .info span{

font-weight: 600;

color: #007bff;

}

.info\_box .buttons{

height: 60px;

display: flex;

align-items: center;

justify-content: flex-end;

padding: 0 30px;

border-top: 1px solid lightgrey;

}

.info\_box .buttons button{

margin: 0 5px;

height: 40px;

width: 100px;

font-size: 16px;

font-weight: 500;

cursor: pointer;

border: none;

outline: none;

border-radius: 5px;

border: 1px solid #007bff;

transition: all 0.3s ease;

}

.quiz\_box{

width: 550px;

background: #fff;

border-radius: 5px;

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

opacity: 0;

pointer-events: none;

transition: all 0.3s ease;

}

.quiz\_box header{

position: relative;

z-index: 2;

height: 70px;

padding: 0 30px;

background: #fff;

border-radius: 5px 5px 0 0;

display: flex;

align-items: center;

justify-content: space-between;

box-shadow: 0px 3px 5px 1px rgba(0,0,0,0.1);

}

.quiz\_box header .title{

font-size: 20px;

font-weight: 600;

}

.quiz\_box header .timer{

color: #004085;

background: #cce5ff;

border: 1px solid #b8daff;

height: 45px;

padding: 0 8px;

border-radius: 5px;

display: flex;

align-items: center;

justify-content: space-between;

width: 145px;

}

.quiz\_box header .timer .time\_left\_txt{

font-weight: 400;

font-size: 17px;

user-select: none;

}

.quiz\_box header .timer .timer\_sec{

font-size: 18px;

font-weight: 500;

height: 30px;

width: 45px;

color: #fff;

border-radius: 5px;

line-height: 30px;

text-align: center;

background: #343a40;

border: 1px solid #343a40;

user-select: none;

}

.quiz\_box header .time\_line{

position: absolute;

bottom: 0px;

left: 0px;

height: 3px;

background: #007bff;

}

section{

padding: 25px 30px 20px 30px;

background: #fff;

}

section .que\_text{

font-size: 25px;

font-weight: 600;

}

section .option\_list{

padding: 20px 0px;

display: block;

}

section .option\_list .option{

background: aliceblue;

border: 1px solid #84c5fe;

border-radius: 5px;

padding: 8px 15px;

font-size: 17px;

margin-bottom: 15px;

cursor: pointer;

transition: all 0.3s ease;

display: flex;

align-items: center;

justify-content: space-between;

}

section .option\_list .option:last-child{

margin-bottom: 0px;

}

section .option\_list .option:hover{

color: #004085;

background: #cce5ff;

border: 1px solid #b8daff;

}

section .option\_list .option.correct{

color: #155724;

background: #d4edda;

border: 1px solid #c3e6cb;

}

section .option\_list .option.incorrect{

color: #721c24;

background: #f8d7da;

border: 1px solid #f5c6cb;

}

section .option\_list .option.disabled{

pointer-events: none;

}

section .option\_list .option .icon{

height: 26px;

width: 26px;

border: 2px solid transparent;

border-radius: 50%;

text-align: center;

font-size: 13px;

pointer-events: none;

transition: all 0.3s ease;

line-height: 24px;

}

.option\_list .option .icon.tick{

color: #23903c;

border-color: #23903c;

background: #d4edda;

}

.option\_list .option .icon.cross{

color: #a42834;

background: #f8d7da;

border-color: #a42834;

}

footer{

height: 60px;

padding: 0 30px;

display: flex;

align-items: center;

justify-content: space-between;

border-top: 1px solid lightgrey;

}

footer .total\_que span{

display: flex;

user-select: none;

}

footer .total\_que span p{

font-weight: 500;

padding: 0 5px;

}

footer .total\_que span p:first-child{

padding-left: 0px;

}

footer button{

height: 40px;

padding: 0 13px;

font-size: 18px;

font-weight: 400;

cursor: pointer;

border: none;

outline: none;

color: #fff;

border-radius: 5px;

background: #007bff;

border: 1px solid #007bff;

line-height: 10px;

opacity: 0;

pointer-events: none;

transform: scale(0.95);

transition: all 0.3s ease;

}

footer button:hover{

background: #0263ca;

}

footer button.show{

opacity: 1;

pointer-events: auto;

transform: scale(1);

}

.result\_box{

background: #fff;

border-radius: 5px;

display: flex;

padding: 25px 30px;

width: 450px;

align-items: center;

flex-direction: column;

justify-content: center;

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

opacity: 0;

pointer-events: none;

transition: all 0.3s ease;

}

.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;

}

.result\_box .score\_text span p{

padding: 0 4px;

font-weight: 600;

}

.result\_box .buttons{

display: flex;

margin: 20px 0;

}

.result\_box .buttons button{

margin: 0 10px;

height: 45px;

padding: 0 20px;

font-size: 18px;

font-weight: 500;

cursor: pointer;

border: none;

outline: none;

border-radius: 5px;

border: 1px solid #007bff;

transition: all 0.3s ease;

}

.buttons button.restart{

color: #fff;

background: #007bff;

}

.buttons button.restart:hover{

background: #0263ca;

}

.buttons button.quit{

color: #007bff;

background: #fff;

}

.buttons button.quit:hover{

color: #fff;

background: #007bff;

}

Javascript

//selecting all required elements

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

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

const exit\_btn = info\_box.querySelector(".buttons .quit");

const continue\_btn = info\_box.querySelector(".buttons .restart");

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

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

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

const time\_line = document.querySelector("header .time\_line");

const timeText = document.querySelector(".timer .time\_left\_txt");

const timeCount = document.querySelector(".timer .timer\_sec");

// if startQuiz button clicked

start\_btn.onclick = ()=>{

info\_box.classList.add("activeInfo"); //show info box

}

// if exitQuiz button clicked

exit\_btn.onclick = ()=>{

info\_box.classList.remove("activeInfo"); //hide info box

}

// if continueQuiz button clicked

continue\_btn.onclick = ()=>{

info\_box.classList.remove("activeInfo"); //hide info box

quiz\_box.classList.add("activeQuiz"); //show quiz box

showQuetions(0); //calling showQestions function

queCounter(1); //passing 1 parameter to queCounter

startTimer(15); //calling startTimer function

startTimerLine(0); //calling startTimerLine function

}

let timeValue = 15;

let que\_count = 0;

let que\_numb = 1;

let userScore = 0;

let counter;

let counterLine;

let widthValue = 0;

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

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

// if restartQuiz button clicked

restart\_quiz.onclick = ()=>{

quiz\_box.classList.add("activeQuiz"); //show quiz box

result\_box.classList.remove("activeResult"); //hide result box

timeValue = 15;

que\_count = 0;

que\_numb = 1;

userScore = 0;

widthValue = 0;

showQuetions(que\_count); //calling showQestions function

queCounter(que\_numb); //passing que\_numb value to queCounter

clearInterval(counter); //clear counter

clearInterval(counterLine); //clear counterLine

startTimer(timeValue); //calling startTimer function

startTimerLine(widthValue); //calling startTimerLine function

timeText.textContent = "Time Left"; //change the text of timeText to Time Left

next\_btn.classList.remove("show"); //hide the next button

}

// if quitQuiz button clicked

quit\_quiz.onclick = ()=>{

window.location.reload(); //reload the current window

}

const next\_btn = document.querySelector("footer .next\_btn");

const bottom\_ques\_counter = document.querySelector("footer .total\_que");

// if Next Que button clicked

next\_btn.onclick = ()=>{

if(que\_count < questions.length - 1){ //if question count is less than total question length

que\_count++; //increment the que\_count value

que\_numb++; //increment the que\_numb value

showQuetions(que\_count); //calling showQestions function

queCounter(que\_numb); //passing que\_numb value to queCounter

clearInterval(counter); //clear counter

clearInterval(counterLine); //clear counterLine

startTimer(timeValue); //calling startTimer function

startTimerLine(widthValue); //calling startTimerLine function

timeText.textContent = "Time Left"; //change the timeText to Time Left

next\_btn.classList.remove("show"); //hide the next button

}else{

clearInterval(counter); //clear counter

clearInterval(counterLine); //clear counterLine

showResult(); //calling showResult function

}

}

// getting questions and options from array

function showQuetions(index){

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

//creating a new span and div tag for question and option and passing the value using array index

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

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

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

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

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

que\_text.innerHTML = que\_tag; //adding new span tag inside que\_tag

option\_list.innerHTML = option\_tag; //adding new div tag inside option\_tag

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

// set onclick attribute to all available options

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

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

}

}

// creating the new div tags which for icons

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

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

//if user clicked on option

function optionSelected(answer){

clearInterval(counter); //clear counter

clearInterval(counterLine); //clear counterLine

let userAns = answer.textContent; //getting user selected option

let correcAns = questions[que\_count].answer; //getting correct answer from array

const allOptions = option\_list.children.length; //getting all option items

if(userAns == correcAns){ //if user selected option is equal to array's correct answer

userScore += 1; //upgrading score value with 1

answer.classList.add("correct"); //adding green color to correct selected option

answer.insertAdjacentHTML("beforeend", tickIconTag); //adding tick icon to correct selected option

console.log("Correct Answer");

console.log("Your correct answers = " + userScore);

}else{

answer.classList.add("incorrect"); //adding red color to correct selected option

answer.insertAdjacentHTML("beforeend", crossIconTag); //adding cross icon to correct selected option

console.log("Wrong Answer");

for(i=0; i < allOptions; i++){

if(option\_list.children[i].textContent == correcAns){ //if there is an option which is matched to an array answer

option\_list.children[i].setAttribute("class", "option correct"); //adding green color to matched option

option\_list.children[i].insertAdjacentHTML("beforeend", tickIconTag); //adding tick icon to matched option

console.log("Auto selected correct answer.");

}

}

}

for(i=0; i < allOptions; i++){

option\_list.children[i].classList.add("disabled"); //once user select an option then disabled all options

}

next\_btn.classList.add("show"); //show the next button if user selected any option

}

function showResult(){

info\_box.classList.remove("activeInfo"); //hide info box

quiz\_box.classList.remove("activeQuiz"); //hide quiz box

result\_box.classList.add("activeResult"); //show result box

const scoreText = result\_box.querySelector(".score\_text");

if (userScore > 3){ // if user scored more than 3

//creating a new span tag and passing the user score number and total question number

let scoreTag = '<span>and congrats! , You got <p>'+ userScore +'</p> out of <p>'+ questions.length +'</p></span>';

scoreText.innerHTML = scoreTag; //adding new span tag inside score\_Text

}

else if(userScore > 1){ // if user scored more than 1

let scoreTag = '<span>and nice , You got <p>'+ userScore +'</p> out of <p>'+ questions.length +'</p></span>';

scoreText.innerHTML = scoreTag;

}

else{ // if user scored less than 1

let scoreTag = '<span>and sorry , You got only <p>'+ userScore +'</p> out of <p>'+ questions.length +'</p></span>';

scoreText.innerHTML = scoreTag;

}

}

function startTimer(time){

counter = setInterval(timer, 1000);

function timer(){

timeCount.textContent = time; //changing the value of timeCount with time value

time--; //decrement the time value

if(time < 9){ //if timer is less than 9

let addZero = timeCount.textContent;

timeCount.textContent = "0" + addZero; //add a 0 before time value

}

if(time < 0){ //if timer is less than 0

clearInterval(counter); //clear counter

timeText.textContent = "Time Off"; //change the time text to time off

const allOptions = option\_list.children.length; //getting all option items

let correcAns = questions[que\_count].answer; //getting correct answer from array

for(i=0; i < allOptions; i++){

if(option\_list.children[i].textContent == correcAns){ //if there is an option which is matched to an array answer

option\_list.children[i].setAttribute("class", "option correct"); //adding green color to matched option

option\_list.children[i].insertAdjacentHTML("beforeend", tickIconTag); //adding tick icon to matched option

console.log("Time Off: Auto selected correct answer.");

}

}

for(i=0; i < allOptions; i++){

option\_list.children[i].classList.add("disabled"); //once user select an option then disabled all options

}

next\_btn.classList.add("show"); //show the next button if user selected any option

}

}

}

function startTimerLine(time){

counterLine = setInterval(timer, 29);

function timer(){

time += 1; //upgrading time value with 1

time\_line.style.width = time + "px"; //increasing width of time\_line with px by time value

if(time > 549){ //if time value is greater than 549

clearInterval(counterLine); //clear counterLine

}

}

}

function queCounter(index){

//creating a new span tag and passing the question number and total question

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

bottom\_ques\_counter.innerHTML = totalQueCounTag; //adding new span tag inside bottom\_ques\_counter

}