

Home.html :

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>KCET Learning - Interactive Quiz</title>
    <link rel="stylesheet" href="styles.css">

</head>

<body>

    <div class="container">

        <header class="header">
            <h1>KCET Learning</h1>
            <p class="tagline">Interactive Quiz Platform</p>
        </header>

        <div id="welcomeScreen" class="screen active">
            <div class="welcome-content">
                <h2>Welcome to the Quiz!</h2>
                <p>Test your knowledge with our interactive quiz.</p>
                <div class="quiz-info">
                    <div class="info-item">
                        <span class="info-label">Total Questions:</span>
                        <span class="info-value" id="totalQuestions">10</span>
                    </div>
                    <div class="info-item">
                        <span class="info-label">Time per Question:</span>
                        <span class="info-value">No Limit</span>
                    </div>
                </div>
                <button id="startBtn" class="btn btn-primary">Start Quiz</button>
            </div>
        </div>

        <div id="quizScreen" class="screen">
            <div class="quiz-header">
                <div class="progress-bar">
                    <div id="progressFill" class="progress-fill"></div>
                </div>
            </div>
        </div>
    </div>
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<div class="quiz-info-bar">
    <span class="question-counter">
        Question <span id="currentQuestion">1</span> of <span id="totalQuestionsDisplay">10</span>
    </span>
    <span class="score-display">
        Score: <span id="currentScore">0</span>
    </span>
</div>
</div>

<div class="quiz-content">
    <div class="question-container">
        <h3 id="questionText" class="question-text"></h3>
    </div>
    <div id="optionsContainer" class="options-container">
    </div>
    <div class="validation-message" id="validationMessage"></div>
</div>
<div class="quiz-navigation">
    <button id="prevBtn" class="btn btn-secondary" disabled>Previous</button>
    <button id="nextBtn" class="btn btn-primary">Next</button>
    <button id="submitBtn" class="btn btn-success" style="display: none;">Submit Quiz</button>
</div>
</div>

<div id="resultScreen" class="screen">
    <div class="result-content">
        <div class="result-icon">
            <span id="resultEmoji">🎉</span>
        </div>
        <h2>Quiz Completed!</h2>
        <div class="result-summary">
            <div class="result-item">
                <span class="result-label">Total Questions:</span>
                <span class="result-value" id="resultTotal">10</span>
            </div>
            <div class="result-item">
                <span class="result-label">Correct Answers:</span>
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<span class="result-value correct" id="resultCorrect">0</span>
</div>

<div class="result-item">
    <span class="result-label">Wrong Answers:</span>
    <span class="result-value wrong" id="resultWrong">0</span>
</div>

<div class="result-item">
    <span class="result-label">Final Score:</span>
    <span class="result-value final-score" id="resultScore">0%</span>
</div>

</div>

<div class="result-message" id="resultMessage"></div>

<div class="result-actions">
    <button id="restartBtn" class="btn btn-primary">Restart Quiz</button>
    <button id="reviewBtn" class="btn btn-secondary">Review Answers</button>
</div>

</div>

<div id="reviewScreen" class="screen">
    <h2>Review Your Answers</h2>
    <div id="reviewContainer" class="review-container">
        </div>
        <div class="review-actions">
            <button id="backToResultBtn" class="btn btn-secondary">Back to Results</button>
            <button id="restartFromReviewBtn" class="btn btn-primary">Restart Quiz</button>
        </div>
    </div>
</div>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script src="script.js"></script>

</body>
</html>
```

Home.html :

```
$(document).ready(function() {  
    const quizQuestions = [  
        {  
            question: "What does HTML stand for?",  
            options: [  
                "Hyper Text Markup Language",  
                "High Tech Modern Language",  
                "Home Tool Markup Language",  
                "Hyperlinks and Text Markup Language"  
            ],  
            correct: 0  
        },  
        {  
            question: "Which CSS property is used to change the text color of an element?",  
            options: [  
                "text-color",  
                "font-color",  
                "color",  
                "text-style"  
            ],  
            correct: 2  
        },  
        {  
            question: "What does CSS stand for?",  
            options: [  
                "Colorful Style Sheets",  
                "Cascading Style Sheets",  
                "Computer Style Sheets",  
                "Creative Style Sheets"  
            ],  
            correct: 1  
        },  
        {  
            question: "Which method is used to select an element by ID in jQuery?",  
            options: [  
                $(".id")  
            ]  
        }  
    ]  
});
```

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    "$('#id')",
    "$('id')",
    "$.id()"

],
correct: 1
},
{
question: "What is the correct HTML element for inserting a line break?",  

options: [
    "break",
    "lb",
    "br",
    "newline"

],
correct: 2
},
{
question: "Which symbol is used for comments in JavaScript?",  

options: [
    "!-- --",
    "/* */",
    "//",
    "Both // and /* */"

],
correct: 3
},
{
question: "Which jQuery method is used to hide selected elements?",  

options: [
    "hidden()",  

    "hide()",  

    "display()",  

    "invisible()"

],
correct: 1
},
{
question: "What is the correct syntax for referring to an external CSS file?",
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        options: [
            "style src='style.css'",
            "stylesheet>style.css</stylesheet",
            "link rel='stylesheet' href='style.css'",
            "css>style.css</css"
        ],
        correct: 2
    },
    {
        question: "Which HTML attribute is used to define inline styles?",
        options: [
            "class",
            "style",
            "styles",
            "font"
        ],
        correct: 1
    },
    {
        question: "What does DOM stand for?",
        options: [
            "Document Object Model",
            "Display Object Management",
            "Digital Orientation Model",
            "Document Oriented Mechanism"
        ],
        correct: 0
    }
];
let currentQuestionIndex = 0;
let score = 0;
let userAnswers = [];
let totalQuestions = quizQuestions.length;

function initQuiz() {
    currentQuestionIndex = 0;
    score = 0;
    userAnswers = [];
}

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        $('#totalQuestions').text(totalQuestions);
        $('#totalQuestionsDisplay').text(totalQuestions);
    }

    function loadQuestion(index) {
        const question = quizQuestions[index];
        $('.question-container, .options-container').fadeOut(300, function() {
            $('#questionText').text(question.question);
            $('#optionsContainer').empty();
            question.options.forEach(function(option, i) {
                const optionHTML = `
                    <div class="option" data-index="${i}">
                        <input type="radio" id="option${i}" name="answer" value="${i}">
                        <label for="option${i}">${option}</label>
                    </div>
                `;
                $('#optionsContainer').append(optionHTML);
            });
            if (userAnswers[index] !== undefined) {
                $('input[value="${userAnswers[index]}"]').prop('checked', true);
                $('.option[data-index="${userAnswers[index]}"]').addClass('selected');
            }
            $('.question-container, .options-container').fadeIn(300);
            $('#currentQuestion').text(index + 1);
            $('#validationMessage').removeClass('show error');
        });
    }

    function validateAnswer() {
        const selectedAnswer = $('input[name="answer"]:checked');
        if (selectedAnswer.length === 0) {
            $('#validationMessage')
                .text('Please select an answer before proceeding!')
                .addClass('show error');
            return false;
        }
        return true;
    }

    $('#nextBtn').on('click', function() {
        if (!validateAnswer()) {

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        return;
    }

const selectedAnswer = parseInt($('input[name="answer"]:checked').val());
userAnswers[currentQuestionIndex] = selectedAnswer;
if (selectedAnswer === quizQuestions[currentQuestionIndex].correct) {
    score++;
    $('#currentScore').text(score).parent().fadeOut(100).fadeIn(100);
}

$('#prevBtn').on('click', function() {
    if (currentQuestionIndex > 0) {
        const selectedAnswer = $('input[name="answer"]:checked').val();
        if (selectedAnswer !== undefined) {
            userAnswers[currentQuestionIndex] = parseInt(selectedAnswer);
        }
        currentQuestionIndex--;
        loadQuestion(currentQuestionIndex);
        updateProgress();
        updateNavigationButtons();
        $('#nextBtn').show();
        $('#submitBtn').hide();
    }
});

function updateNavigationButtons() {
    if (currentQuestionIndex === 0) {
        $('#prevBtn').prop('disabled', true);
    } else {
        $('#prevBtn').prop('disabled', false);
    }
    if (currentQuestionIndex === totalQuestions - 1) {
        $('#nextBtn').hide();
        $('#submitBtn').show();
    } else {
        $('#nextBtn').show();
        $('#submitBtn').hide();
    }
}

$('#restartBtn, #restartFromReviewBtn').on('click', function() {
    initQuiz();
}

```

```

$('.screen').fadeOut(500, function() {
    $(this).removeClass('active');
});

setTimeout(function() {
    $('#welcomeScreen').fadeIn(500).addClass('active');
}, 500);

$('#prevBtn').prop('disabled', true);
$('#nextBtn').show();
$('#submitBtn').hide();
$('#currentScore').text('0');

});

function showReview() {
    $('#reviewContainer').empty();
    quizQuestions.forEach(function(question, index) {
        const userAnswer = userAnswers[index];
        const correctAnswer = question.correct;
        const isCorrect = userAnswer === correctAnswer;
        const reviewHTML = `

            <div class="review-item">
                <div class="review-question">
                    <strong>Question ${index + 1}:</strong> ${question.question}
                </div>
                <div class="review-answer user-answer ${isCorrect ? 'correct-user' : ''}">
                    <span class="answer-label">Your Answer:</span>
                    ${question.options[userAnswer]} ${isCorrect ? '✓' : '✗'}
                </div>
                ${!isCorrect ? `
                    <div class="review-answer correct-answer">
                        <span class="answer-label">Correct Answer:</span>
                        ${question.options[correctAnswer]} ✓
                    </div>
                ` : ''}
            </div>
        `;
        $('#reviewContainer').append(reviewHTML);
    });
}

$('.review-item').each(function(index) {

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        $(this).hide().delay(index * 100).fadeIn(300);

    });

initQuiz();

$('.btn').hover(
    function() {
        if (!$(this).prop('disabled')) {
            $(this).css('transform', 'translateY(-2px)');
        }
    },
    $(document).on('keydown', function(e) {
        // Only enable keyboard navigation on quiz screen
        if ($('#quizScreen').hasClass('active')) {
            // Arrow keys to select options (1-4)
            if (e.keyCode >= 49 && e.keyCode <= 52) {
                const optionIndex = e.keyCode - 49;
                const option = `$.option[data-index="${optionIndex}"]`;
                if (option.length) {
                    option.click();
                }
            }
            else if (e.keyCode === 13) {
                if ($('#submitBtn').is(':visible')) {
                    $('#submitBtn').click();
                } else if (!$('#nextBtn').prop('disabled')) {
                    $('#nextBtn').click();
                }
            }
            else if (e.keyCode === 8 && !$('#prevBtn').prop('disabled')) {
                e.preventDefault();
                $('#prevBtn').click();
            }
        }
    });
    console.log('Quiz Application Initialized');
    console.log('Total Questions:', totalQuestions);
    console.log('jQuery Version:', $.fn.jquery);
});

```

Output :

