

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>

</body>

</html>
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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>

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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 ? '✓' : 'X'}
                </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 :

