ONLINE TEST APPLICATION:

GIT Link: <https://github.com/musthaqmd/Simplilearn-phase-4.git>

Header.component.html:

<nav class="navbar navbar-dark bg-primary">

    <div class="container-fluid">

        <a class="navbar-brand text-bold" href="#">

      <img src="https://img.icons8.com/external-smashingstocks-flat-smashing-stocks/452/external-online-test-distance-education-smashingstocks-flat-smashing-stocks.png" width="50" height="50" alt="logo">

      Online Test Application <span class="badge badge-secondary">Quiz</span>

        </a>

    </div>

</nav>

Question.component.html:

<div class="container mt-5 mb-5">

    <div class="card">

        <div class="d-flex justify-content-between p-3">

            <div class="image">

                <img src="https://img.icons8.com/external-smashingstocks-flat-smashing-stocks/452/external-online-test-distance-education-smashingstocks-flat-smashing-stocks.png"

                    width="100" height="100" alt="logo">

            </div>

            <div class="quiz-header">

                <h4 style="font-family: cursive;"><b>Angular & TypeScript Quiz..!!</b></h4>

                <span style="font-style: italic;">Welcome {{name}}</span>

            </div>

        </div>

        <ng-container \*ngIf="!isQuizCompleted">

            <div class="d-flex justify-content-around py-3">

                <div class="score">

                    <h5> {{points}} Ponits</h5>

                </div>

                <div class="question remain">

                    <span style="font-style: italic;">Question {{currentQuestion+1}} of {{questionList.length}}</span>

                </div>

                <div class="timer">

                    <h5>{{counter}} sec <i class="fas fa-clock" style="font-size:24px;color:red;"></i> </h5>

                </div>

            </div>

            <div class="progress mb-3">

                <div class="progress-bar progress-bar-striped bg-success" role="progressbar"

                    [ngStyle]="{'width':progress+'%'}" aria-valuenow="25" aria-valuemin="0" aria-valuemax="100">

                </div>

            </div>

            <div class="question">

                <div class="card">

                    <h5 style="font-style: italic;"><b>{{questionList[currentQuestion]?.questionText}}</b></h5>

                </div>

            </div>

            <div class="options">

                <ol \*ngFor="let option of questionList[currentQuestion]?.options">

                    <li (click)="answer(currentQuestion+1,option)">

                        <div appChangeBg [isCorrect]="option.correct" class="card">

                            {{option.text}}

                        </div>

                    </li>

                </ol>

            </div>

            <div class="d-flex justify-content-between">

                <button [disabled]="currentQuestion===0" class="btn" (click)="previousQuestion()"><i

                        class="fa text-primary fa-chevron-left fa-2x" aria-hidden="true"></i></button>

                <button class="btn" (click)="resetQuiz()"><i class="fa fa-refresh text-primary fa-2x"

                        aria-hidden="true"></i></button>

                <button class="btn" (click)="nextQuestion()"><i class="fa text-primary fa-chevron-right fa-2x"

                        aria-hidden="true"></i></button>

            </div>

        </ng-container>

<ng-container \*ngIf="isQuizCompleted">

        <div class="card">

            <div class="container-fluid">

                <div class="row mt-3 mx-2">

                    <div class="col-md-2">

                        <div class="row d-flex justify-content-between">

                            <img class="img-fluid col-sm-12 mx-auto"

                                src="https://img.icons8.com/external-wanicon-flat-wanicon/452/external-badge-award-and-success-wanicon-flat-wanicon.png"

                                width="70" height="70" alt="">

                        </div>

                    </div>

                    <div class="col-md-10">

                        <div class="result text-center col-md-6 col-sm-12">

                            <h4 style="color: blue;"><b>Congratulations..!!<br>Quiz Done: <br>Your ScoreCard: </b></h4>

                            <p style="color: green;"><b>Total Question Attempted: {{questionList.length}} </b></p>

                            <p style="color: green;"><b>Total Correct Answered : {{correctAnswer}} </b></p>

                            <p style="color: green;"><b>Total InCorrect Anwered: {{inCorrectAnswer}} </b></p>

                            <p style="color: green;"><b>Your Score: {{points}} Points</b></p>

                        </div>

                    </div>

                </div>

            </div>

        </div>

        <div class="card mt-3">

            <div class="container-fluid">

                <div class="row mt-3 mx-2">

                    <div class="col-md-2">

                        <div class="row d-flex justify-content-between">

                            <img class="img-fluid col-sm-12 mx-auto"

                                src="https://cdn-icons-png.flaticon.com/512/4658/4658125.png"

                                width="70" height="70" alt="">

                        </div>

                    </div>

                    <div class="col-md-10">

                        <div class="result text-center col-md-6 col-sm-12">

                            <h4 style="color: darkblue;"><b>Your Review Chart</b></h4>

                            <p style="color: red ;"><b>Your Score: {{points}} Points</b></p>

                            <p style="color: red;"><b>Points are < 10:Work Hard:Failed</b></p>

                            <p style="color: red;"><b>Points 10To30 :WorkMore:Failed</b></p>

                            <p style="color: green;"><b>Points are 30 to 40 : Good</b></p>

                            <p style="color: green;"><b>Points are 40 to 70 : Very Good</b></p>

                            <p style="color: green;"><b>Points are 70 to 90 : Excellent</b></p>

                        </div>

                    </div>

                </div>

            </div>

        </div>

</ng-container>

    </div>

</div>

<div class="card text-center">

    <div class="card-header badge-secondary">

        <p class="card-text"><b>Owned By © 2022 Copyright: By </b><a style="color:whitesmoke;"

                href="#!">OnlineTestApplication.com</a>

    </div>

</div>

Welcome.component.html:

<div class="container">

    <div class="row">

        <div class="col-md-12 ">

            <div class="card mt-3 mb-3">

                <div class="card-header bg-light">

                    <h1 class="display-5  fw-bold " style="color:darkorchid;"> Welcome to Online Test Apllication</h1>

                </div>

                <div class="card-body">

                    <p class="col-md-8 fs-4"><b>Online Test Application system creates an application for Quiz that

                            enables

                            users to provide online tests, review them, and display the results at the same time.<br>

                            This Quiz

                            will contains total 9 questions and Each Question holds 10 points.</b>

                    </p>

                    <h1 style="color:darkviolet;">Quiz Rules:</h1>

                    <ol>

                        <li><b> Each Correct Question gives you 10 points.</b></li>

                        <li><b> Each Incorrect Question gives you -10 points.</b></li>

                        <li><b> You will have 60 seconds to answer each question.</b></li>

                        <li><b> Refreshing the Page will reset the Quiz and you have to start from starting only.</b>

                        </li>

                    </ol>

                </div>

                <div class="card-footer bg-light text-center">

                    <h1 style="font-family: cursive;"><b>All the Best...!!!</b></h1>

                </div>

            </div>

        </div>

    </div>

    <div class="name col-md-4 my-3">

        <label> <b>Enter your name to start the Quiz: </b></label>

        <input #name type="text" class="form-control" placeholder="Enter your name here...">

    </div>

    <div class="container">

        <button class="btn btn-primary btn-lg" routerLink="/question" (click)="startQuiz()">Start the Quiz..!!</button>

    </div>

</div>

<div class="card text-center">

    <div class="card-header badge-secondary">

        <p class="card-text"><b>Owned By © 2022 Copyright: By </b><a style="color:whitesmoke;"

                href="#!">OnlineTestApplication.com</a>

    </div>

</div>

Index.html:

<!doctype html>

<html lang="en">

<head>

  <meta charset="utf-8">

  <title>Phase4OnlineTestApplication</title>

  <base href="/">

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="icon" type="image/x-icon" href="favicon.ico">

  <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="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

</head>

<body>

<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js" integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js" integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl" crossorigin="anonymous"></script>

<script src="https://kit.fontawesome.com/a076d05399.js" crossorigin="anonymous"></script>

  <app-root></app-root>

</body>

</html>

App.component.html:

<app-header> </app-header>

<router-outlet> </router-outlet>

Package.json:

{

  "name": "phase4-online-test-application",

  "version": "0.0.0",

  "scripts": {

    "ng": "ng",

    "start": "ng serve",

    "build": "ng build",

    "watch": "ng build --watch --configuration development",

    "test": "ng test"

  },

  "private": true,

  "dependencies": {

    "@angular/animations": "~13.2.0",

    "@angular/common": "~13.2.0",

    "@angular/compiler": "~13.2.0",

    "@angular/core": "~13.2.0",

    "@angular/forms": "~13.2.0",

    "@angular/platform-browser": "~13.2.0",

    "@angular/platform-browser-dynamic": "~13.2.0",

    "@angular/router": "~13.2.0",

    "rxjs": "~7.5.0",

    "tslib": "^2.3.0",

    "zone.js": "~0.11.4"

  },

  "devDependencies": {

    "@angular-devkit/build-angular": "~13.2.6",

    "@angular/cli": "~13.2.6",

    "@angular/compiler-cli": "~13.2.0",

    "@types/jasmine": "~3.10.0",

    "@types/node": "^12.11.1",

    "jasmine-core": "~4.0.0",

    "karma": "~6.3.0",

    "karma-chrome-launcher": "~3.1.0",

    "karma-coverage": "~2.1.0",

    "karma-jasmine": "~4.0.0",

    "karma-jasmine-html-reporter": "~1.7.0",

    "typescript": "~4.5.2"

  }

}