**Online Test Application Code**

Quiz.html

<div id="quiz" class="container mt-5">

  <h2 class="text-center fw-bold text-uppercase">{{ quiz.name }}</h2>

  <hr />

  <div \*ngIf="mode == 'quiz' && quiz">

    <div \*ngFor="let question of filteredQuestions">

      <div class="mb-4">

        <span class="badge bg-info">

          Question {{ pager.index + 1 }} of {{ pager.count }}.

        </span>

        <span \*ngIf="config.duration" class="badge bg-info float-end">

          Time: {{ ellapsedTime }} / {{ duration }}

        </span>

      </div>

      <h3 class="fw-normal mb-4">

        {{ pager.index + 1 }}.

        <span [innerHTML]="question.name"></span>

      </h3>

      <div class="row text-left options">

        <div class="col-6" \*ngFor="let option of question.options">

          <div class="option">

            <label class="fw-normal" [attr.for]="option.id">

              <input

                id="{{ option.id }}"

                type="checkbox"

                [(ngModel)]="option.selected"

                (change)="onSelect(question, option)"

              />

              {{ option.name }}

            </label>

          </div>

        </div>

      </div>

    </div>

    <hr />

    <br />

    <div class="text-center">

      <button

        class="btn btn-outline-primary mx-2"

        \*ngIf="config.allowBack"

        (click)="goTo(0)"

      >

        First

      </button>

      <button

        class="btn btn-outline-primary mx-2"

        \*ngIf="config.allowBack"

        (click)="goTo(pager.index - 1)"

      >

        Prev

      </button>

      <button

        class="btn btn-outline-primary mx-2"

        (click)="goTo(pager.index + 1)"

      >

        Next

      </button>

      <button

        class="btn btn-outline-primary mx-2"

        \*ngIf="config.allowBack"

        (click)="goTo(pager.count - 1)"

      >

        Last

      </button>

    </div>

    <br />

  </div>

  <div class="row text-center" \*ngIf="mode == 'review'">

    <div

      class="col-4 cursor-pointer"

      \*ngFor="let question of quiz.questions; let index = index"

    >

      <div

        (click)="goTo(index)"

        class="p-3 mb-2 {{

          isAnswered(question) == 'Answered' ? 'bg-info' : 'bg-warning'

        }}"

      >

        {{ index + 1 }}. {{ isAnswered(question) }}

      </div>

    </div>

  </div>

  <div class="result" \*ngIf="mode == 'result'">

    <h2>

      Quiz Result:

      <span class="badge bg-success"

        >Your Score is: {{ quizScore }} Out of {{ quizTotalScore }}</span

      >

    </h2>

    <div \*ngFor="let question of quiz.questions; let index = index">

      <div class="result-question">

        <h5>{{ index + 1 }}. {{ question.name }}</h5>

        <div class="row">

          <div class="col-6" \*ngFor="let Option of question.options">

            <input

              id="{{ Option.id }}"

              type="checkbox"

              disabled="disabled"

              [(ngModel)]="Option.selected"

            />

            {{ Option.name }}

          </div>

        </div>

        <div

          class="p-1 m-2 alert {{

            isCorrect(question) == 'correct' ? 'alert-success' : 'alert-danger'

          }}"

        >

          Your answer is {{ isCorrect(question) }}.

        </div>

      </div>

    </div>

    <h4 class="alert alert-info text-center">You may close this window now.</h4>

  </div>

  <hr />

  <div \*ngIf="mode != 'result'">

    <button class="btn btn-warning mx-2" (click)="mode = 'quiz'">Quiz</button>

    <button class="btn btn-info mx-2" (click)="mode = 'review'">Review</button>

    <button class="btn btn-primary mx-2" (click)="onSubmit()">

      Submit Quiz

    </button>

  </div>

</div>

Quiz-List.html

<div class="container mt-5">

  <div class="row">

    <div \*ngFor="let tempQuiz of quizes" class="col-md-4">

      <div class="card">

        <img

          src="{{ tempQuiz.imageUrl }}"

          class="card-img-top"

          alt="Quiz Image"

        />

        <div class="card-body text-center">

          <h5 class="card-title">

            {{ tempQuiz.name }}

          </h5>

          <hr />

          <p class="card-text">

            {{ tempQuiz.description }}

          </p>

          <a

            routerLink="/quiz/{{ tempQuiz.name }}"

            class="btn btn-outline-primary"

            >Give {{ tempQuiz.name }} Quiz</a

          >

        </div>

      </div>

    </div>

  </div>

</div>

App-Component.html

<nav class="navbar navbar-expand-lg navbar-dark bg-dark">

  <a class="navbar-brand ml-2 fw-bolder" routerLink="/quiz">Online Quiz</a>

  <a class="navbar-brand ml-2 fw-bolder" routerLink="/login">Login</a>

  <app-login></app-login>

  <button

    class="navbar-toggler"

    type="button"

    data-toggle="collapse"

    data-target="#navbarNav"

    aria-controls="navbarNav"

    aria-expanded="false"

    aria-label="Toggle navigation"

  >

    <span class="navbar-toggler-icon"></span>

  </button>

  <div class="collapse navbar-collapse" id="navbarNav">

    <ul class="navbar-nav ms-auto">

      <li class="nav-item">

        <a

          class="nav-link btn-outline-primary btn-sm text-light fw-bolder"

          routerLink="/quiz"

          >Home</a

        >

      </li>

    </ul>

  </div>

</nav>

<div class="container">

  <router-outlet></router-outlet>

</div>

<footer class="bg-dark text-center text-lg-start mt-5">

  <!-- Copyright -->

  <div class="text-center p-3 text-light fw-bold">

    © 2022 Copyright:

    <a class="text-light fw-bold" routerLink="/quiz">Online Quiz Application</a>

  </div>

  <!-- Copyright -->

</footer>

Index.html

<!doctype html>

<html lang="en">

<head>

  <meta charset="utf-8">

  <title>OnlineTestApplication</title>

  <base href="/">

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

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

</head>

<body>

  <app-root></app-root>

</body>

</html>