**project.component.html**

<app-welcome \*ngIf="welcome"></app-welcome>

<div class="center" \*ngIf="!getscore && !welcome">

<br><br>

<br><app-singleq \*ngFor="let singleq of quizlist,let i=index" [length]="quizlist.length" [singleq]="singleq" [index]="index">

</app-singleq>

</div>

<app-score \*ngIf="getscore && !welcome"></app-score>

**project.component.ts**

import { HttpClient } from '@angular/common/http';

import { Component, OnInit ,Input} from '@angular/core';

@Component({

selector: 'app-project',

templateUrl: './project.component.html',

styleUrls: ['./project.component.css']

})

export class ProjectComponent implements OnInit {

quizlist=[]

getscore=false

welcome=true

constructor(private http:HttpClient) { }

ngOnInit(): void {

this.getquestions()

}

getquestions(){

this.quizlist=[]

this.http.get(

'http://localhost:4000/Quiz'

)

.subscribe((qlist)=>{

// this.mainemplist.push(emplist)

for(const key in qlist){

this.quizlist.push({...qlist[key],id:key})

}

// console.log(this.quizlist.length)

console.log(this.quizlist)

})

}

ondisscore(){

this.getquestions()

}

}

**project.component.css**

@import url('https://fonts.googleapis.com/css2?family=Montserrat&display=swap');

\*{

margin: 0;

padding: 0;

box-sizing: border-box;

}

body{

background-color: #333;

}

.container{

border-color: blue;

border-radius: 10px;

padding: 20px;

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

max-width: 700px;

}

.container > p{

font-size: 32px;

}

.question{

color: black;

width: 75%;

}

.options{

color: black;

position: relative;

padding-left: 40px;

}

#options label{

display: block;

margin-bottom: 15px;

font-size: 14px;

cursor: pointer;

}

.options input{

opacity: 0;

}

.checkmark {

position: absolute;

top: -1px;

left: 0;

height: 25px;

width: 25px;

background-color:white;

border: 1px solid #ddd;

border-radius: 50%;

}

.options input:checked ~ .checkmark:after {

display: block;

}

.options .checkmark:after{

content: "";

width: 10px;

height: 10px;

display: block;

background: white;

position: absolute;

top: 50%;

left: 50%;

border-radius: 50%;

transform: translate(-50%,-50%) scale(0);

transition: 300ms ease-in-out 0s;

}

.options input[type="radio"]:checked ~ .checkmark{

background: #21bf73;

transition: 300ms ease-in-out 0s;

}

.options input[type="radio"]:checked ~ .checkmark:after{

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

}

.btn-primary{

background-color: #555;

color: #ddd;

border: 1px solid #ddd;

}

.btn-primary:hover{

background-color: #21bf73;

border: 1px solid #21bf73;

}

.btn-success{

padding: 5px 25px;

background-color: #21bf73;

}

@media(max-width:576px){

.question{

width: 100%;

word-spacing: 2px;

}

}

@import url('https://fonts.googleapis.com/icon?family=Material+Icons');

.center {

display: flex;

justify-content: center;

}

.blue-color {

color:blue;

}

.green-color {

color:green;

}

.teal-color {

color:teal;

}

.yellow-color {

color:yellow;

}

.red-color {

color:red;

}

**score.component.html**

<div class="center">

<div class="row">

<div class="col">

<h3 class="green-color"align-self: center>Test completed successfullly!!!</h3>

<h4>Your Total Score : {{score}}/{{totallist.length}}</h4><br><br>

</div>

</div>

</div>

<div class="container" \*ngFor="let x of totallist,let i=index" >

<div class="row">

<div class="col">

<div class="blue-color">

{{i+1}} {{x.question}}<br><br>

</div>

</div>

</div>

<div class="row">

<div class="col">

<p \*ngFor="let y of x.options,let i=index">

{{i+1}} {{y}}

</p>

<p \*ngIf="x.selected==0" class="teal-color">

Your answer : Not selected <span class="material-icons red-color">X</span></p><br>

<p \*ngIf="x.selected>0" class="teal-color">

Your answer : {{x.selected}}

<span \*ngIf="x.selected==x.answer" class="material-icons green-color">check </span>

<span \*ngIf="x.selected!=x.answer" class="material-icons red-color">X</span>

</p>

<p class="teal-color">

Correct answer {{x.answer}}<br><br></p>

</div>

</div>

</div>

**score.component.ts**

import { HttpClient } from '@angular/common/http';

import { Component, OnInit } from '@angular/core';

import { ProjectComponent } from '../project.component';

@Component({

selector: 'app-score',

templateUrl: './score.component.html',

styleUrls: ['./score.component.css']

})

export class ScoreComponent implements OnInit {

totallist=[]

score=0

evaluation=[]

constructor(private http:HttpClient,private project:ProjectComponent) { }

ngOnInit(): void {

this.load()

}

load(){

this.http.get(

'http://localhost:4000/Quiz'

)

.subscribe((qlist)=>{

for(const key in qlist){

this.totallist.push({...qlist[key],id:key})

}

console.log(this.totallist[1].question)

console.log("Score...........")

this.calculatingscores()

this.defaultsetvalues()

})

}

defaultsetvalues(){

for(const x in this.totallist){

const y=parseInt(x)+1

const body={

selected:0

}

this.http.patch(

'http://localhost:4000/Quiz/'+y,body

)

.subscribe()

}

}

calculatingscores(){

console.log("Calculating..")

console.log(this.totallist)

for(const x in this.totallist){

if(this.totallist[x].answer==this.totallist[x].selected){

this.score++

this.evaluation.push(1)

console.log(this.score)

}

else{

this.evaluation.push(0)

}

console.log(this.evaluation)

}

}

}

**score.component.css**

@import url('https://fonts.googleapis.com/icon?family=Material+Icons');

.center {

display: flex;

justify-content: center;

}

.blue-color {

color:blue;

}

.green-color {

color:green;

}

.teal-color {

color:teal;

}

.yellow-color {

color:yellow;

}

.red-color {

color:red;

}

**singleq.component.html**

<div class="center mt-sm-5 my-1 m-5" \*ngIf="!singleq.ishidden">

<div class="question ml-sm-5 pl-sm-5 pt-2 m-5" >

<div class="py-2 h5"><b>{{singleq.question}}</b></div>

<div class="ml-md-3 ml-sm-3 pl-md-5 pt-sm-0 pt-3" id="options">

<label class="options" \*ngFor="let o of singleq.options,let i = index">{{o}}

<input type="radio" name="{{singleq.id}}" value="i+1" (click)="onclickradio(i+1)" required>

<span class="checkmark"></span>

</label>

<div class="d-flex align-items-center pt-3" \*ngIf="singleq.id<length-1 && nextbutton">

<div class="ml-auto mr-sm-5">

<button type="submit" class="btn btn-success" (click)="onsubmit()">Next</button>

</div>

</div>

</div>

</div>

<div class="d-flex align-items-center pt-3" \*ngIf="singleq.id==length-1 && submitbutton" >

<div class="ml-auto mr-sm-5">

<br> <button class="btn btn-success" (click)="onsubmit()">Submit</button>

</div>

</div>

</div>

**singleq.component.ts**

import { HttpClient } from '@angular/common/http';

import { Component, OnInit ,Input} from '@angular/core';

import { ProjectComponent } from '../project.component';

@Component({

selector: 'app-singleq',

templateUrl: './singleq.component.html',

styleUrls: ['./singleq.component.css']

})

export class SingleqComponent implements OnInit {

@Input()

singleq

@Input()

index

@Input()

length

radiovalue: number;

score=[]

nextbutton=true

submitbutton=true;

constructor(private http:HttpClient,private project:ProjectComponent) { }

ngOnInit(): void {

console.log(this.singleq.ishidden)

}

onclickradio(radiovalue:number)

{

console.log(radiovalue)

const x:number=parseInt(this.singleq.id)+1

const body={

selected:radiovalue

}

this.http.patch(

'http://localhost:4000/Quiz/'+x,body

)

.subscribe()

}

onsubmit(){

this.changehiddenpresent()

this.changehiddennext()

}

changehiddenpresent(){

console.log("from hidden present")

const x:number=parseInt(this.singleq.id)+1

const body={

ishidden:true

}

this.http.patch(

'http://localhost:4000/Quiz/'+x,body

)

.subscribe()

}

changehiddennext(){

console.log("from hidden")

const x:number=parseInt(this.singleq.id)+2

const y:number=1

if(x<=this.length){

const body={

ishidden:false

}

this.http.patch(

'http://localhost:4000/Quiz/'+x,body

)

.subscribe(()=>{

this.project.getquestions()

})

}

else{

this.nextbutton=false

this.submitbutton=false

this.project.getscore=true

const body={

ishidden:false

}

this.http.patch(

'http://localhost:4000/Quiz/'+y,body

)

.subscribe()

}

}

ondisscore(){

console.log("Scoring.....")

}

}

**singleq.component.css**

@import url('https://fonts.googleapis.com/css2?family=Montserrat&display=swap');

\*{

margin: 0;

padding: 0;

box-sizing: border-box;

}

body{

background-color: #333;

}

.container{

border-color: blue;

border-radius: 10px;

padding: 20px;

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

max-width: 700px;

display: flex;

justify-content: center;

}

.container > p{

font-size: 32px;

}

.question{

color: black;

width: 75%;

}

.options{

color: black;

position: relative;

padding-left: 40px;

}

#options label{

display: block;

margin-bottom: 15px;

font-size: 14px;

cursor: pointer;

}

.options input{

opacity: 0;

}

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top: -1px;

left: 0;

height: 25px;

width: 25px;

background-color:white;

border: 1px solid #ddd;

border-radius: 50%;

}

.options input:checked ~ .checkmark:after {

display: block;

}

.options .checkmark:after{

content: "";

width: 10px;

height: 10px;

display: block;

background: white;

position: absolute;

top: 50%;

left: 50%;

border-radius: 50%;

transform: translate(-50%,-50%) scale(0);

transition: 300ms ease-in-out 0s;

}

.options input[type="radio"]:checked ~ .checkmark{

background: #21bf73;

transition: 300ms ease-in-out 0s;

}

.options input[type="radio"]:checked ~ .checkmark:after{

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

}

.btn-primary{

background-color: #555;

color: #ddd;

border: 1px solid #ddd;

}

.btn-primary:hover{

background-color: #21bf73;

border: 1px solid #21bf73;

}

.btn-success{

padding: 5px 25px;

background-color: #21bf73;

}

@media(max-width:576px){

.question{

width: 100%;

word-spacing: 2px;

}

}

.center {

display: flex;

justify-content: center;

}

**welcome.component.ts**

import { Component, OnInit } from '@angular/core';

import { ProjectComponent } from '../project.component';

@Component({

selector: 'app-welcome',

templateUrl: './welcome.component.html',

styleUrls: ['./welcome.component.css']

})

export class WelcomeComponent implements OnInit {

constructor(private project:ProjectComponent) { }

ngOnInit(): void {

}

onstart(){

this.project.welcome=false

}

}

**welcome.component.html**

<div class="center">

<div class="row">

<div class="col">

<br><br> <h1 class="green-color"align-self: center>Online Test Application </h1>

</div>

</div>

</div>

<div class="center">

<div class="row">

<div class="col">

<br><br><br><br><br><button class="button"(click)="onstart()">Click to Start Quiz</button>

</div>

</div>

</div>

<div>

<footer class="blue-color"><b>Developed By<br>Seelam Sindhuja<br>Emp id:10840</b></footer>

</div>

**welcome.component.css**

@import url('https://fonts.googleapis.com/icon?family=Material+Icons');

.center {

display: flex;

justify-content: center;

}

.blue-color {

color:blue;

}

.green-color {

color:green;

}

.teal-color {

color:teal;

}

.yellow-color {

color:yellow;

}

.red-color {

color:red;

}

.button {

background-color: #4CAF50; /\* Green \*/

border: none;

color: white;

padding: 15px 32px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

border-radius: 12px;

/\* border-radius: 10%; \*/

}

footer{

position: absolute;

right: 0;

bottom: 0;

}