Source code:

**Source code:**

**Aboutus.html:**

<app-navbar></app-navbar>

<div id="heading" class="text-center font-weight-bold">Quiz</div>

<img id = "img" src="../../assets/images/line.svg" height="200" width="100%">

<div id="name" class="py-4 mb-0 px-3 ml-2 mr-2">

    <div id="head1" class="text-center text-white"><strong>Quiz</strong> Secure, Professional Web Based Quiz Easy to use,for business, training and educational assessment with instantly scored tests and quizzes saving you hours of paperwork!</div>

</div>

<div id = "con" class="container">

    <div class="bg-white rounded shadow-lg mb-5 mt-5 py-3 px-3">

        <div class="row row-cols-2 py-3">

            <div class="col">

            <img src="../../assets/images/assess.jpg" width="500" height="300">

            </div>

            <div class="col">

            <br><br><br>

            <h5 class="card-title"><strong>Take The Assessment</strong></h5>

            <p class="card-text">Spend less than 15 min answering 10 Questions about your selected Category.</p>

            </div>

            <div class="col">

            <br>

            <img src="../../assets/images/Score.jpg" width="500" height="300">

            </div>

            <div class="col">

            <br><br><br>

            <h5 class="card-title"><strong>See How You Scored</strong></h5>

            <p class="card-text">You will immediately see your overall score, which measure your current ability.</p>

            </div>

        </div>

    </div>

</div>

<app-footer></app-footer>

**Contactus.html:**

<app-navbar></app-navbar>

<!DOCTYPE html>

<html>

<head></head>

<body>

    <div class="row justify-content-center">

        <div class="col-md-4 text-left bg-white rounded shadow-lg mb-5 mt-5  py-3">

            <div><h3><strong>Contact us</strong></h3></div><br>

            <form (ngSubmit) = "onsubmit(signupform)" #signupform = "ngForm">

                <div class="form-row">

                    <div class="form-group col-12">

                        <label for="fname">Name</label>

                        <input type="text" class="form-control" id="fname" name="Ufname" ngModel required  #fname="ngModel">

                        <small \*ngIf = '!fname.valid &&  fname.touched' class="text-danger">Please Enter Your name</small>

                    </div>

                </div>

                <div class="form-group">

                    <label for="email">Email</label>

                    <input type="email" class="form-control" id="email" placeholder="john@abc.com" name="Umail" ngModel required email #email="ngModel">

                    <small \*ngIf = '!email.valid &&  email.touched' class="text-danger">Please Enter Valid Email</small>

                </div>

                <div class="form-group">

                    <label>Your Message</label>

                    <textarea class="text-left" name="text" rows="4" cols="47"></textarea>

                </div>

                <button type="submit" class="btn btn-primary float-right" [disabled] = '!signupform.valid'>Submit</button>

            </form>

        </div>

    </div>

</body>

</html>

<app-footer></app-footer>

**CreateAccount.html:**

<!DOCTYPE html>

<html>

<head></head>

<body>

    <div class="row justify-content-center">

        <div class="col-md-6 text-left bg-white rounded shadow-lg mb-5 mt-5 py-3">

            <img class="rounded mx-auto d-block mb-4" src="../../assets/images/quizlog-removebg-preview.png" width="72" height="72" >

            <h1 class="h2 mb-3 font-weight-normal text-center">Create your Quiz Account</h1><br>

            <form (ngSubmit) = "onsubmit(signupform)" #signupform = "ngForm">

                <div class="form-row">

                    <div class="form-group col-md-6">

                        <label for="fname">First Name</label>

                        <input type="text" class="form-control" id="fname" name="Ufname" ngModel required  #fname="ngModel">

                        <small \*ngIf = '!fname.valid &&  fname.touched' class="text-danger">Please Enter Your name</small>

                    </div>

                    <div class="form-group col-md-6">

                        <label for="lname">Last Name</label>

                        <input type="text" class="form-control" id="lname" name="Ulname" ngModel>

                    </div>

                </div>

                <div class="form-group">

                    <label for="email">Email</label>

                    <input type="email" class="form-control" id="email" placeholder="john@abc.com" name="Umail" ngModel required email #email="ngModel">

                    <small \*ngIf = '!email.valid &&  email.touched' class="text-danger">Please Enter Valid Email</small>

                </div>

                <div class="form-group">

                    <label for="pass">Password</label>

                    <input type="password" class="form-control" id="pass" name="Upass" ngModel required #pass="ngModel">

                    <small \*ngIf = '!pass.valid &&  pass.touched' class="text-danger">Please Enter Password</small>

                </div>

                <button type="submit" class="btn btn-primary float-right" [disabled] = '!signupform.valid'>Create Account</button>

            </form>

        </div>

    </div>

</body>

</html>

<app-footer></app-footer>

**Footer.html:**

<!DOCTYPE html>

<html>

<head></head>

<body>

    <br><br>

    <footer class="pt-3 my-md-3 pt-md-3 border-top" style="padding-left: 20px; padding-right: 20px;">

        <div class="row">

            <div class="col-12 col-md">

                <img src="./assets/images/quizlog-removebg-preview.png" width="50" height="50">

                <span class="text-muted">  &copy; 2022-All Rights Reserved.</span>

            </div>

            <span><a class="text-muted" [routerLink] = "['/contactus']">Contact us</a></span>

            <span><a class="text-muted" [routerLink] = "['/privacy']">Privacy & Terms</a></span>

            <span>

                <a><i class="bi bi-twitter"></i></a>

                <a id ="mid"><i class="bi bi-instagram"></i></a>

                <a ><i class="bi bi-facebook"></i></a>

            </span>

        </div>

    </footer>

</body>

</html>

**Home.html:**

<app-navbar></app-navbar>

<table>

    <tr>

        <th>

            <div id = "back" class="container">

                <h1 class="display-4">Ready for<br>meaningful engagement?</h1>

                <p class="lead">Find and Create exciting Quizzzzes.</p>

                <a class="btn btn-lg" [routerLink] = "['/getstart']" role="button">Get Started <i class="bi bi-arrow-right-short"></i></a>

            </div>

        </th>

        <th>

            <img src="../../assets/images/Effective-teamwork.png" width="820" height="513">

        </th>

    </tr>

</table>

<app-footer></app-footer>

**Navbar.html:**

<!DOCTYPE html>

<html>

<head></head>

<body>

    <div class="d-flex flex-column flex-md-row align-items-center p-3 px-md-4 mb-3 bg-white border-bottom shadow-sm fixed-top">

        <h5 class="my-0 mr-md-auto font-weight-normal"><a [routerLink] = "['/']"><img src="../assets/images/quizmain-removebg-preview.png" style="height: 40px;width:90px;"></a></h5>

        <nav class="my-2 my-md-0 mr-md-3">

            <a class="p-2 text-dark" [routerLink] = "['/about']">About</a>

            <span \*ngIf ='uname!=""' class = "p-2 text-dark"> |&nbsp; {{uname}}</span>

            <a \*ngIf ='uname==""' class="p-2 text-dark" onclick="document.getElementById('id01').style.display='block'" style="width:auto;">Sign in</a>

        </nav>

        <a \*ngIf ='uname!=""' class="btn btn-sm" [routerLink] = "['/']" (click) = 'onlogout()'><i class="bi bi-power"></i>&nbsp;SignOut</a>

        <a \*ngIf ='uname==""' class="btn btn-lg" [routerLink] = "['/create']">Create an account</a>

    </div>

    <div id="id01" class="modal">

        <form class="modal-content animate">

            <div class="imgcontainer">

                <span onclick="document.getElementById('id01').style.display='none'" class="close" title="Close">&times;</span>

            </div>

            <form class="form-signin" style="border: 1; text-align: center;" (ngSubmit) = "onsubmit(signinform)" #signinform = "ngForm">

                <img class="mb-4" src="../../assets/images/quizlog-removebg-preview.png" alt="" width="72" height="72">

                <h1 class="h2 mb-3 font-weight-normal">Sign in</h1>

                <label for="email" class="sr-only">Email address</label>

                <input type="email" id="email" class="form-control" placeholder="Email address" name="Umail" required autofocus ngModel email #email="ngModel">

                <small \*ngIf = '!email.valid &&  email.touched' class="text-danger float-left py-2">Please Enter Valid Email</small>

                <label for="pass" class="sr-only">Password</label>

                <input type="password" id="pass" class="form-control" placeholder="Password" name="Upass" ngModel required #pass="ngModel">

                <div id = "chk" style="text-align: right;"><a [routerLink] = "['/forget']">Forgot password?</a></div>

                <button type = "submit" class="btn btn-lg  btn-block mt-5 mb-3" [disabled] = '!signinform.valid'>Sign in</button>

                <p id = "bott">Don't have an account? <a [routerLink] = "['/create']">Create Account</a></p>

            </form>

        </form>

    </div>

    <script>

        var modal = document.getElementById('id01');

        window.onclick = function(event) {

            if (event.target == modal) {

                modal.style.display = "none";

            }

        }

    </script>

</body>

</html>

**QuizDisplay.html:**

<!DOCTYPE html>

<html>

<head></head>

<body>

    <div class="sidenav">

        <div \*ngIf ='uname!=""'>

            <div style = "padding:10px;"><strong>Name:&nbsp;</strong>{{uname}}</div>

            <br>

        </div>

        <div style = "padding:10px;"><strong>Questions:-</strong></div>

        <div>

            <table  style="margin-left:4px">

                <tr>

                    <td><a id = "navbtn1" class="btn"  role="button" (click) ="btncontent(0)">1</a></td>

                    <td><a id = "navbtn2" class="btn"  role="button" (click) ="btncontent(1)">2</a></td>

                    <td><a id = "navbtn3" class="btn"  role="button" (click) ="btncontent(2)">3</a></td>

                    <td><a id = "navbtn4" class="btn"  role="button" (click) ="btncontent(3)">4</a></td>

                    <td><a id = "navbtn5" class="btn"  role="button" (click) ="btncontent(4)">5</a></td>

                </tr>

                <tr>

                    <td><a id = "navbtn6" class="btn"  role="button" (click) ="btncontent(5)">6</a></td>

                    <td><a id = "navbtn7" class="btn"  role="button" (click) ="btncontent(6)">7</a></td>

                    <td><a id = "navbtn8" class="btn"  role="button" (click) ="btncontent(7)">8</a></td>

                    <td><a id = "navbtn9" class="btn"  role="button" (click) ="btncontent(8)">9</a></td>

                    <td><a id = "navbtn10" class="btn"  role="button" (click) ="btncontent(9)">10</a></td>

                </tr>

            </table>

        </div>

        <br><br><br><br><br><br>

        <div class="text-center">

            <a class="btn btn-danger text-center" role="button" (click) = "homecnf()"><i class="bi bi-house-fill"></i> Back to Home</a>

        </div>

    </div>

    <div id="track">

        <span style="padding-right: 40px;">Answered:&nbsp;<i id = "vis" class="bi bi-square-fill"></i> </span>

        <span style="padding-right: 40px;padding-left: 40px;">Not Answered:&nbsp;<i id = "nvis" class="bi bi-square-fill"></i> </span>

        <span style="padding-right: 40px;padding-left: 40px;">Review:&nbsp;<i id = "rev" class="bi bi-square-fill"></i>  </span>

        <span style="padding-right: 40px;padding-left: 40px; ">Time Left:&nbsp;<span id="time">{{min}} Min {{timeLeft}} sec</span> </span>

    </div>

    <div class="main">

        <div id="Heading" class="media text-muted pt-3">

            <div  class="media-body pb-2 mb-0 small lh-125 border-bottom border-gray">

                <div class="d-flex justify-content-between align-items-center w-100">

                    <h6 id="qno"><strong class="text-dark"></strong></h6>

                </div>

            </div>

        </div>

        <div class="my-3 p-3 bg-white rounded shadow-lg">

            <div class="row">

                <div class="col">

                    <div class="media text-muted pt-3">

                        <div class="media-body pb-3 mb-0 small lh-125 border-bottom border-gray">

                            <div id = "quest" class="d-flex justify-content-between align-items-center w-100"></div>

                        </div>

                    </div>

                </div>

            </div>

            <div class="w-100"></div>

            <div class="media text-muted pt-3">

                <div class="media-body pb-3 mb-0 small lh-125 border-bottom border-gray">

                    <div class="d-flex justify-content-between align-items-center w-100">

                        <div class="custom-control custom-radio">

                            <input type="radio" id="op1" name="op" class="custom-control-input" >

                            <label class="custom-control-label" for="op1"><h6 id= "option1"><strong class="text-gray-dark"></strong></h6></label>

                        </div>

                    </div>

                </div>

            </div>

            <div class="media text-muted pt-3">

                <div class="media-body pb-3 mb-0 small lh-125 border-bottom border-gray">

                    <div class="d-flex justify-content-between align-items-center w-100">

                        <div class="custom-control custom-radio">

                            <input type="radio" id="op2" name="op" class="custom-control-input" >

                            <label class="custom-control-label" for="op2"><h6 id= "option2"><strong class="text-gray-dark"></strong></h6></label>

                        </div>

                    </div>

                </div>

            </div>

            <div class="media text-muted pt-3">

                <div class="media-body pb-3 mb-0 small lh-125 border-bottom border-gray">

                    <div class="d-flex justify-content-between align-items-center w-100">

                        <div class="custom-control custom-radio">

                            <input type="radio" id="op3" name="op" class="custom-control-input">

                            <label class="custom-control-label" for="op3"><h6 id= "option3"><strong class="text-gray-dark"></strong></h6></label>

                        </div>

                    </div>

                </div>

            </div>

            <div class="media text-muted pt-3">

                <div class="media-body pb-3 mb-0 small lh-125 border-bottom border-gray">

                    <div class="d-flex justify-content-between align-items-center w-100">

                        <div class="custom-control custom-radio">

                            <input type="radio" id="op4" name="op" class="custom-control-input" >

                            <label class="custom-control-label" for="op4"><h6 id= "option4"><strong class="text-gray-dark"></strong></h6></label>

                        </div>

                    </div>

                </div>

            </div>

        </div>

        <div class="text-center">

            <span style="padding-right: 40px;"><button type="button" class="btn" id = "review" (click)="review()"><i class="bi bi-eye-fill"></i> Marked for Review</button></span>

            <span style="padding-right: 40px;"><button type="button" class="btn" id= "prev" (click)="prev()"><i class="bi bi-arrow-bar-left"></i> Previous</button></span>

            <span style="padding-right: 40px;"><button type="button" class="btn" id= "next" (click)="next()">Next <i class="bi bi-arrow-bar-right"></i></button></span>

            <span style="padding-right: 40px;"><button type="button" class="btn btn-info" id= "savenext" (click)="savenext()"> Save & Next <i class="bi bi-arrow-bar-right"></i></button></span>

            <span \*ngIf="i==9"><a id= "submitquiz" class="btn btn-success" role="button" (click)="submitquiz()">Submit Quiz</a></span>

        </div>

    </div>

</body>

</html>

**Review.html:**

<app-navbar></app-navbar>

<div class="jumbotron">

    <h1 class="display-4"><strong>Score Card</strong></h1>

    <hr class="my-4">

    <p>See your score card on clicking below button.</p>

    <a class="btn btn-success" data-toggle="collapse" href="#collapseExample" role="button" aria-expanded="false" aria-controls="collapseExample">

        Review & Result

    </a>

</div>

<div class="collapse" id="collapseExample">

    <div class="card card-body">

        <div style="background-color: #85C1E9 ;padding:10px;"><h3>Your Score:&nbsp;{{point}}/100</h3></div>

        <table class="table">

            <thead>

                <tr>

                    <th scope="col">#</th>

                    <th scope="col">Questions</th>

                    <th scope="col">Correct Answer</th>

                    <th scope="col">Your Answer</th>

                </tr>

            </thead>

            <tbody>

                <tr \*ngFor = 'let item of filecontent'>

                    <th scope="row">{{item.qid}}</th>

                    <td>{{item.qtext}}</td>

                    <td>{{item.ans}}</td>

                    <td [ngClass]="{greenClass: item.col, redClass: !item.col}">{{item.uans}}</td>

                </tr>

            </tbody>

        </table>

    </div>

</div>

<app-footer></app-footer>

**App.module.ts:**

import { NgModule } from '@angular/core';

import { BrowserModule } from '@angular/platform-browser';

import {FormsModule} from '@angular/forms'

import { AppRoutingModule } from './app-routing.module';

import { AppComponent } from './app.component';

import { ErrorComponent } from './error/error.component';

import { HomeComponent } from './home/home.component';

import { NavbarComponent } from './navbar/navbar.component';

import { FooterComponent } from './footer/footer.component';

import { CreateaccountComponent } from './createaccount/createaccount.component';

import { GetstartedComponent } from './getstarted/getstarted.component';

import { QuizhomeComponent } from './quizhome/quizhome.component';

import { QuizdisplayComponent } from './quizdisplay/quizdisplay.component';

import { BrowserAnimationsModule } from '@angular/platform-browser/animations';

import { QuizcontentsService } from './services/quizcontents.service';

import { ReactiveFormsModule } from '@angular/forms';

import { ReviewComponent } from './review/review.component';

import { PrivacyComponent } from './privacy/privacy.component';

import { ForgetpassComponent } from './forgetpass/forgetpass.component';

import { ContactusComponent } from './contactus/contactus.component';

import { AboutComponent } from './about/about.component';

@NgModule({

  declarations: [

    AppComponent,

    ErrorComponent,

    HomeComponent,

    NavbarComponent,

    FooterComponent,

    CreateaccountComponent,

    GetstartedComponent,

    QuizhomeComponent,

    QuizdisplayComponent,

    ReviewComponent,

    PrivacyComponent,

    ForgetpassComponent,

    ContactusComponent,

    AboutComponent,

  ],

  imports: [

    BrowserModule,

    AppRoutingModule,

    BrowserAnimationsModule,

    FormsModule,

    ReactiveFormsModule

  ],

  providers: [QuizcontentsService],

  bootstrap: [AppComponent]

})

export class AppModule { }

**App.component.ts:**

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

@Component({

  selector: 'app-root',

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

  styleUrls: ['./app.component.css']

})

export class AppComponent {

  title = 'ota';

}

App-routing.module.ts:

import { NgModule } from '@angular/core';

import { RouterModule, Routes } from '@angular/router';

import { ErrorComponent } from "./error/error.component";

import { HomeComponent } from "./home/home.component";

import { CreateaccountComponent } from "./createaccount/createaccount.component";

import { GetstartedComponent } from "./getstarted/getstarted.component";

import { QuizhomeComponent } from "./quizhome/quizhome.component";

import { QuizdisplayComponent } from "./quizdisplay/quizdisplay.component";

import { ReviewComponent } from './review/review.component';

import { ForgetpassComponent } from './forgetpass/forgetpass.component';

import { ContactusComponent } from './contactus/contactus.component';

import { PrivacyComponent } from './privacy/privacy.component';

import { AboutComponent } from './about/about.component';

const routes: Routes = [

  { path:'',component:HomeComponent},

  { path:'create',component:CreateaccountComponent},

  { path:'about',component:AboutComponent},

  { path:'forget',component:ForgetpassComponent},

  { path:'getstart',component:GetstartedComponent},

  { path:'quizhome',component:QuizhomeComponent},

  { path:'contactus',component:ContactusComponent},

  { path:'privacy',component:PrivacyComponent},

  { path:'quizdisplay',component:QuizdisplayComponent},

  { path:'review',component:ReviewComponent},

  { path:'\*\*',component:ErrorComponent},

];

@NgModule({

  imports: [RouterModule.forRoot(routes)],

  exports: [RouterModule]

})

export class AppRoutingModule { }

app.component.spec.ts:

import { TestBed } from '@angular/core/testing';

import { RouterTestingModule } from '@angular/router/testing';

import { AppComponent } from './app.component';

describe('AppComponent', () => {

  beforeEach(async () => {

    await TestBed.configureTestingModule({

      imports: [

        RouterTestingModule

      ],

      declarations: [

        AppComponent

      ],

    }).compileComponents();

  });

  it('should create the app', () => {

    const fixture = TestBed.createComponent(AppComponent);

    const app = fixture.componentInstance;

    expect(app).toBeTruthy();

  });

  it(`should have as title 'ota'`, () => {

    const fixture = TestBed.createComponent(AppComponent);

    const app = fixture.componentInstance;

    expect(app.title).toEqual('ota');

  });

  it('should render title', () => {

    const fixture = TestBed.createComponent(AppComponent);

    fixture.detectChanges();

    const compiled = fixture.nativeElement as HTMLElement;

    expect(compiled.querySelector('.content span')?.textContent).toContain('ota app is running!');

  });

});

Quizcontents.services.spec.ts:

import { TestBed } from '@angular/core/testing';

import { QuizcontentsService } from './quizcontents.service';

describe('QuizcontentsService', () => {

  let service: QuizcontentsService;

  beforeEach(() => {

    TestBed.configureTestingModule({});

    service = TestBed.inject(QuizcontentsService);

  });

  it('should be created', () => {

    expect(service).toBeTruthy();

  });

});

Quizcontent.service.ts:

import { Injectable } from '@angular/core';

import { Quizformat } from '../quizdisplay/quizformat';

@Injectable({

  providedIn: 'root'

})

export class QuizcontentsService {

    path:string ="";

    user\_option = ["","","","","","","","","",""];

    cans = [];

    currentu ="";

    constructor() {}

    mymethod(data:string){

        this.path = data;

    }

    User\_option\_update(ind:number,data:string){

        this.user\_option[ind] = data;

    }

    UserPass:any[]=[

        {

            "Ufname":"Prashant",

            "Ulname":"Singh",

            "Umail":"pras@gmail.com",

            "Upass":"dont123"

        },

        {

            "Ufname":"Rishu",

            "Ulname":"Singh",

            "Umail":"rishu@gmail.com",

            "Upass":"need123"

        }

    ]

    gk\_content:Quizformat[] = [

        {

            qid:"1",

            qtext:"Fathometer is used to measure",

            op1:"Earthquakes",

            op2:"Rainfall",

            op3:"Ocean depth",

            op4:"Sound intensity",

            ans:"Ocean depth"

        },

        {

            qid:"2",

            qtext:"With which of the following was satyajit Ray associated",

            op1:"Commercial art",

            op2:"Classical Music",

            op3:"Classical Dance",

            op4:"Direction of films",

            ans:"Direction of films"

        },

        {

            qid:"3",

            qtext:"Who proposed the Preamble before the Drafting Committee of the Constitution",

            op1:"Jawaharlal Nehru",

            op2:"B.R.Ambedkar",

            op3:"B.N.Rau",

            op4:"Mahatma Gandhi",

            ans:"Jawaharlal Nehru"

        },

        {

            qid:"4",

            qtext:"'Bagh', a village in Gwalior is famous for",

            op1:"Sculptures",

            op2:"Architecture",

            op3:"Cave Painting",

            op4:"All of the above",

            ans:"Cave Painting"

        },

        {

            qid:"5",

            qtext:"Which places is said to be the cathedral city of india?",

            op1:"Benaras",

            op2:"Kancheepuram",

            op3:"Madurai",

            op4:"Bhubaneswar",

            ans:"Bhubaneswar"

        },

        {

            qid:"6",

            qtext:"D.D.T. was invented by",

            op1:"Paul Muller",

            op2:"John Dalton",

            op3:"Rudolf",

            op4:"None of these",

            ans:"Paul Muller"

        },

        {

            qid:"7",

            qtext:"The human heart is",

            op1:"Neurogenic heart",

            op2:"Myogenic heart",

            op3:"Pulsating heart",

            op4:"Ampullary heart",

            ans:"Myogenic heart"

        },

        {

            qid:"8",

            qtext:"The blue colour of the clear sky is due to",

            op1:"Diffraction of light",

            op2:"Dispersion of light",

            op3:"Reflection of light",

            op4:"Refraction of light",

            ans:"Dispersion of light"

        },

        {

            qid:"9",

            qtext:"World’s highest railway bridge will be constructed on which river?",

            op1:"Ganga",

            op2:"Chenab",

            op3:"Yamuna",

            op4:"Kaveri",

            ans:"Chenab"

        },

        {

            qid:"10",

            qtext:"Who is the author of the book 'Freedom Behind Bars '",

            op1:"Kiran Bedi",

            op2:"Jawaharlal Nehru",

            op3:"Nelson Mandela",

            op4:"Sheikh Abdullah",

            ans:"Kiran Bedi"

        }

    ]

    tech\_content:Quizformat[] = [

        {

            qid:"1",

            qtext:"Microsoft has opened its new IDC facility in which city?",

            op1:"Faridabad",

            op2:"Mumbai",

            op3:"Surat",

            op4:"Noida",

            ans:"Noida"

        },

        {

            qid:"2",

            qtext:"Tech major Microsoft has launched its new India Development Center (IDC) facility in which state?",

            op1:"Gujarat",

            op2:"Uttar Pradesh",

            op3:"   Kerala",

            op4:"Karnataka",

            ans:"Uttar Pradesh"

        },

        {

            qid:"3",

            qtext:"Who has launched its new Taj Mahal inspired Engineering Hub in NCR?",

            op1:"Snapdeal",

            op2:"Microsoft",

            op3:"Amazon",

            op4:"Flipkart",

            ans:"Microsoft"

        },

        {

            qid:"4",

            qtext:"Which telecom company has become the first one in India to demonstrate the operation of the 5G network?",

            op1:"Reliance Jio",

            op2:"Airtel",

            op3:"Vi",

            op4:"BSNL",

            ans:"Airtel"

        },

        {

            qid:"5",

            qtext:"Which Institution has signed MoU with MoRTH for strengthening R&D activities?",

            op1:"IIT Roorkee",

            op2:"IIT Delhi",

            op3:"IIT Madras",

            op4:"IIT Kharagpur",

            ans:"IIT Roorkee"

        },

        {

            qid:"6",

            qtext:"The NSDC has partnered with which university to provide the Digital Skills Training in India?",

            op1:"Massachusetts Institute of Technology",

            op2:"Harvard University",

            op3:"Stanford University",

            op4:"California State University",

            ans:"California State University"

        },

        {

            qid:"7",

            qtext:"Which company has completed the acquisition of smart wearable company Fitbit?",

            op1:"Hike",

            op2:"Flipkart",

            op3:"Facebook",

            op4:"Google",

            ans:"Google"

        },

        {

            qid:"8",

            qtext:"Which company became the first independent power producer to fully commission the first three wind auctions held by the SECI?",

            op1:"My Home Power private Limited",

            op2:"Shyam Indus Power Solutions Limited",

            op3:"Reliance Power Trading Limited",

            op4:"Sembcorp Energy India Limited",

            ans:"Sembcorp Energy India Limited"

        },

        {

            qid:"9",

            qtext:"Which among the following department launched pan India 1000 SARS-CoV-2 RNA genome sequencing programme in collaboration with the national laboratories and clinical organization?",

            op1:"Department of Chemicals and Petrochemicals",

            op2:"Department for Science and Technology",

            op3:"Department of Health and Family Welfare",

            op4:"Department of Biotechnology",

            ans:"Department of Biotechnology"

        },

        {

            qid:"10",

            qtext:"India and European Union (EU) exchanged Note Verbale to renew its Agreement on Scientific and Technological Cooperation for how many years?",

            op1:"4",

            op2:"6",

            op3:"5",

            op4:"9",

            ans:"5"

        }

    ]

    appti\_content:Quizformat[] = [

        {

            qid:"1",

            qtext:"A train 125 m long passes a man, running at 5 km/hr in the same direction in which the train is going, in 10 seconds. The speed of the train is:",

            op1:"45 km/hr",

            op2:"50 km/hr",

            op3:"54 km/hr",

            op4:"55 km/hr",

            ans:"50 km/hr"

        },

        {

            qid:"2",

            qtext:"An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 1 hours, it must travel at a speed of:",

            op1:"300 kmph",

            op2:"360 kmph",

            op3:"600 kmph",

            op4:"720 kmph",

            ans:"720 kmph"

        },

        {

            qid:"3",

            qtext:"The angle of elevation of a ladder leaning against a wall is 60Â° and the foot of the ladder is 4.6 m away from the wall. The length of the ladder is:",

            op1:"2.3 m",

            op2:"4.6 m",

            op3:"7.8 m",

            op4:"9.2 m",

            ans:"9.2 m"

        },

        {

            qid:"4",

            qtext:"A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day?",

            op1:"12 days",

            op2:"15 days",

            op3:"16 days",

            op4:"18 days",

            ans:"15 days"

        },

        {

            qid:"5",

            qtext:"A sum of money at simple interest amounts to Rs. 815 in 3 years and to Rs. 854 in 4 years. The sum is:",

            op1:"Rs. 650",

            op2:"Rs. 690",

            op3:"Rs. 698",

            op4:"Rs. 700",

            ans:"Rs. 698",

        },

        {

            qid:"6",

            qtext:"The difference between simple and compound interests compounded annually on a certain sum of money for 2 years at 4% per annum is Re. 1. The sum (in Rs.) is:",

            op1:"625",

            op2:"630",

            op3:"640",

            op4:"650",

            ans:"625"

        },

        {

            qid:"7",

            qtext:"The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:",

            op1:"15",

            op2:"16",

            op3:"18",

            op4:"25",

            ans:"16"

        },

        {

            qid:"8",

            qtext:"A, B, C subscribe Rs. 50,000 for a business. A subscribes Rs. 4000 more than B and B Rs. 5000 more than C. Out of a total profit of Rs. 35,000, A receives:",

            op1:"Rs. 8400",

            op2:"Rs. 11,900",

            op3:"Rs. 13,600",

            op4:"Rs. 14,700",

            ans:"Rs. 14,700"

        },

        {

            qid:"9",

            qtext:"Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:",

            op1:"39, 30",

            op2:"41, 32",

            op3:"42, 33",

            op4:"43, 34",

            ans:"42, 33"

        },

        {

            qid:"10",

            qtext:"The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?",

            op1:"4 years",

            op2:"8 years",

            op3:"10 years",

            op4:"None of these",

            ans:"4 years",

        }

    ]

}

Review.component.ts:

//import { CompileShallowModuleMetadata } from '@angular/compiler';

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

import { Quizformat } from '../quizdisplay/quizformat';

import { QuizcontentsService } from '../quizcontents.service';

@Component({

  selector: 'app-review',

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

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

})

export class ReviewComponent implements OnInit {

    point:number = 0;

    userans:any[];

    cans:string[];

    filecontent:any [];

    constructor(private \_content:QuizcontentsService) { }

    ngOnInit(): void {

        if(this.\_content.path=="GK"){

            this.filecontent = this.\_content.gk\_content;

        }

        else if(this.\_content.path=="Technology"){

            this.filecontent = this.\_content.tech\_content;

        }

        else{

            this.filecontent = this.\_content.appti\_content;

        }

        this.userans = this.\_content.user\_option;

        this.cans = this.\_content.cans;

        for(var i=0;i<10;++i){

            if(this.userans[i].length==0){

                this.filecontent[i]["uans"] = "Not Attempted";

            }

            else{

                this.filecontent[i]["uans"] = this.userans[i];

            }

            if(this.userans[i]==this.cans[i]){

                this.filecontent[i]["col"] = true;

            }

            else{

                this.filecontent[i]["col"] = false;

            }

        }

        this.score();

    }

    score(){

        for(var i=0;i<10;++i){

            if(this.userans[i]==this.cans[i]){

                this.point+=10;

            }

        }

    }

}

Quizhome.component.ts:

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

import { Router } from '@angular/router';

import { QuizcontentsService } from '../quizcontents.service';

@Component({

  selector: 'app-quizhome',

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

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

})

export class QuizhomeComponent implements OnInit  {

    qname:string;

    constructor(private \_quizservice:QuizcontentsService,private router:Router){}

    ngOnInit(){

    this.qname = this.\_quizservice.path;

    }

    homecnf(){

        var ask = window.confirm("You will be redirected to Home Page.");

        if (ask) {

            this.router.navigate(['/']);

        }

    }

}

Quizdisplay.component.ts:

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

import { FormControl, FormGroup } from '@angular/forms';

import { Router } from '@angular/router';

import { QuizcontentsService } from '../quizcontents.service';

import { Quizformat } from './quizformat';

import { timer } from 'rxjs';

@Component({

  selector: 'app-quizdisplay',

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

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

})

export class QuizdisplayComponent implements OnInit{

    userans  = new Array();

    filecontent:Quizformat[];

    path:string;

    i:number = 0;

    uname:string;

    timeLeft: number = 60;

    min:number = 14;

    interval;

    subscribeTimer: any;

    constructor(private \_content:QuizcontentsService, private router:Router ) { }

    ngOnInit(){

        this.uname = this.\_content.currentu;

        this.path = this.\_content.path;

        if(this.path=="GK"){

            this.filecontent = this.\_content.gk\_content;

            for(var i=0;i<10;++i){

                this.\_content.cans.push(this.filecontent[i].ans);

            }

        }

        else if(this.path=="Technology"){

            this.filecontent = this.\_content.tech\_content;

            for(var i=0;i<10;++i){

                this.\_content.cans.push(this.filecontent[i].ans);

            }

        }else{

            this.filecontent = this.\_content.appti\_content;

            for(var i=0;i<10;++i){

                this.\_content.cans.push(this.filecontent[i].ans);

            }

        }

        this.content();

        this.startTimer();

    }

    next(){

        this.uncheck();

        if (this.i == 9) {

            (<HTMLInputElement> document.getElementById('savenext')).disabled = true;

            (<HTMLInputElement> document.getElementById('next')).disabled = true;

            (<HTMLInputElement> document.getElementById('prev')).disabled = false;

        } else {

            (<HTMLInputElement> document.getElementById('prev')).disabled = false;

            ++this.i;

            this.content();

        }

    }

    prev(){

        this.uncheck();

        if (this.i == 0){

            (<HTMLInputElement> document.getElementById('prev')).disabled = true;

            (<HTMLInputElement> document.getElementById('next')).disabled = false;

        }else{

            (<HTMLInputElement> document.getElementById('next')).disabled = false;

            (<HTMLInputElement> document.getElementById('savenext')).disabled = false;

            --this.i;

            this.content();

        }

    }

    content(){

        document.getElementById("qno").innerHTML = "&nbsp; Screen:" + this.filecontent[this.i].qid;

        document.getElementById("quest").innerHTML = "Q." + this.filecontent[this.i].qid+ " " +this.filecontent[this.i].qtext;

        document.getElementById("option1").innerHTML = this.filecontent[this.i].op1;

        document.getElementById("option2").innerHTML = this.filecontent[this.i].op2;

        document.getElementById("option3").innerHTML = this.filecontent[this.i].op3;

        document.getElementById("option4").innerHTML = this.filecontent[this.i].op4;

    }

    btncontent(num:number){

        this.i = num;

        this.content();

    }

    oberserableTimer(){

        const source = timer(1000, 2000);

        const abc = source.subscribe(val => {

          console.log(val, '-');

          this.subscribeTimer = this.timeLeft - val;

        });

    }

    startTimer(){

        this.interval = setInterval(() => {

            if(this.timeLeft > 0) {

            this.timeLeft--;

            } else {

            this.timeLeft = 60;

            this.min--;

            }

            if(this.min<2){

            (<HTMLInputElement>document.getElementById("time")).style.backgroundColor = "#EC7063";

            }

            if(this.min==0 && this.timeLeft==0){

                var option = new Array();

                var list = new Array();

                option = [this.filecontent[this.i].op1,

                this.filecontent[this.i].op2,

                this.filecontent[this.i].op3,

                this.filecontent[this.i].op4]

                for(var i=1;i<=4;++i){

                    var inputValue = (<HTMLInputElement>document.getElementById("op" + i.toString())).checked;

                    list.push(inputValue);

                }

                for(var i=0;i<4;++i){

                    if(list[i]==true){

                    this.\_content.User\_option\_update(eval(this.filecontent[this.i].qid)-1,option[i])

                    }

                }

                alert("Time up ! You will be Redirected to Result & Review Page..")

                this.router.navigate(['/review']);

            }

        },1000)

    }

    savenext(){

        var option = new Array();

        option = [this.filecontent[this.i].op1,

        this.filecontent[this.i].op2,

        this.filecontent[this.i].op3,

        this.filecontent[this.i].op4]

        var list = new Array();

        for(var i=1;i<=4;++i){

          var inputValue = (<HTMLInputElement>document.getElementById("op" + i.toString())).checked;

          list.push(inputValue);

        }

        for(var i=0;i<4;++i){

            if(list[i]==true){

            this.\_content.User\_option\_update(eval(this.filecontent[this.i].qid)-1,option[i])

            }

        }

        if(this.i == 9){

            (<HTMLInputElement>document.getElementById("navbtn10")).style.backgroundColor = "#5bc0de";

            (<HTMLInputElement> document.getElementById('savenext')).disabled = true;

            (<HTMLInputElement> document.getElementById('next')).disabled = true;

            (<HTMLInputElement> document.getElementById('prev')).disabled = false;

        }else{

            (<HTMLInputElement> document.getElementById('prev')).disabled = false;

            ++this.i;

            this.content();

        }

        this.uncheck();

        (<HTMLInputElement>document.getElementById("navbtn" + this.i.toString())).style.backgroundColor = "#5bc0de";

    }

    uncheck(){

        for(var i=1;i<=4;++i){

          var rbutton = (<HTMLInputElement>document.getElementById("op" + i.toString()));

          rbutton.checked = false;

        }

    }

    submitquiz(){

        var option = new Array();

        var list = new Array();

        option = [this.filecontent[this.i].op1,

        this.filecontent[this.i].op2,

        this.filecontent[this.i].op3,

        this.filecontent[this.i].op4]

        for(var i=1;i<=4;++i){

            var inputValue = (<HTMLInputElement>document.getElementById("op" + i.toString())).checked;

            list.push(inputValue);

        }

        for(var i=0;i<4;++i){

            if(list[i]==true){

            this.\_content.User\_option\_update(eval(this.filecontent[this.i].qid)-1,option[i])

            }

        }

        var ask = window.confirm("Are you sure want to Submit Quiz?");

        if (ask){

            this.router.navigate(['/review']);

        }

    }

    homecnf(){

        var ask = window.confirm("Ongoing Quiz will be Cancelled & You will be redirected to Home Page.");

        if (ask){

            this.router.navigate(['/']);

        }

    }

    review(){

        ++this.i;

        (<HTMLInputElement>document.getElementById(`navbtn${this.i.toString()}`)).style.backgroundColor = "#F39C12";

    }

}

[Home.component.ts](http://Home.component.ts):

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

@Component({

  selector: 'app-home',

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

  styleUrls: ['./home.component.css']

})

export class HomeComponent implements OnInit {

  constructor() { }

  ngOnInit(): void {

  }

}

[Home.component.spec.ts](http://Home.component.spec.ts):

import { ComponentFixture, TestBed } from '@angular/core/testing';

import { HomeComponent } from './home.component';

describe('HomeComponent', () => {

  let component: HomeComponent;

  let fixture: ComponentFixture<HomeComponent>;

  beforeEach(async () => {

    await TestBed.configureTestingModule({

      declarations: [ HomeComponent ]

    })

    .compileComponents();

    fixture = TestBed.createComponent(HomeComponent);

    component = fixture.componentInstance;

    fixture.detectChanges();

  });

  it('should create', () => {

    expect(component).toBeTruthy();

  });

});

Getstarted.component.ts:

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

import { QuizcontentsService } from '../quizcontents.service';

@Component({

  selector: 'app-getstarted',

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

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

})

export class GetstartedComponent implements OnInit {

constructor(private \_getstart:QuizcontentsService){}

ngOnInit(){

}

sentpath(path:string)

{

  this.\_getstart.mymethod(path);

}

}

Createaccount.component.ts:

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

import { NgForm } from '@angular/forms';

import { Router } from '@angular/router';

import { QuizcontentsService } from '../quizcontents.service';

@Component({

  selector: 'app-createaccount',

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

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

})

export class CreateaccountComponent {

  constructor(private \_service:QuizcontentsService,private router:Router){}

  onsubmit(form:NgForm)

  {

    this.\_service.UserPass.push(form.value);

    alert("Account Created Successfully!");

    this.router.navigate(['/']);

  }

}

Contactus.component.ts:

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

import { NgForm } from '@angular/forms';

import { Router } from '@angular/router';

import { QuizcontentsService } from '../quizcontents.service';

@Component({

  selector: 'app-contactus',

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

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

})

export class ContactusComponent implements OnInit {

  constructor(private \_service:QuizcontentsService,private router:Router) { }

  ngOnInit(): void {

  }

  onsubmit(form:NgForm)

  {

    alert("Form Submitted!");

    this.router.navigate(['/']);

  }

}

About.component.ts:

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

@Component({

  selector: 'app-about',

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

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

})

export class AboutComponent implements OnInit {

  constructor() { }

  ngOnInit(): void {

  }

}

About.component.spec.ts:

import { ComponentFixture, TestBed } from '@angular/core/testing';

import { AboutComponent } from './about.component';

describe('AboutComponent', () => {

  let component: AboutComponent;

  let fixture: ComponentFixture<AboutComponent>;

  beforeEach(async () => {

    await TestBed.configureTestingModule({

      declarations: [ AboutComponent ]

    })

    .compileComponents();

    fixture = TestBed.createComponent(AboutComponent);

    component = fixture.componentInstance;

    fixture.detectChanges();

  });

  it('should create', () => {

    expect(component).toBeTruthy();

  });

});