Online Test Applications

Version History:

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Purpose	Online Test Applications	
Date	December 15, 2021.	
Version	13.1	

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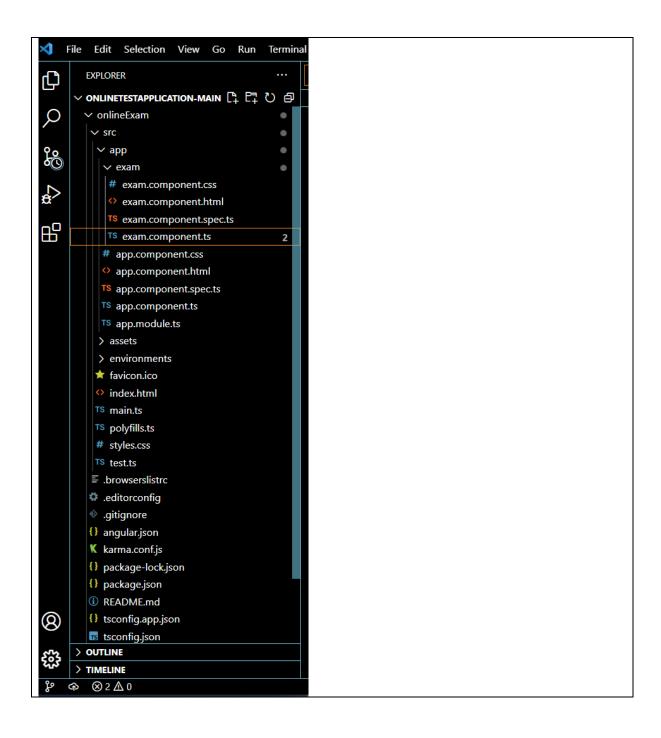
1. Project Modules:

- 1. Node js.
- 2. Visual Studios.
- 3. Angular 13.3.1
- 4. Angular .json
- 5. HTML
- 6. Css
- 7. Java Scriot
- 8. karma configuration model.
- 9. Sql Data Base
- 10. PowerShell

2. Git hub link:

Repository name:	FourthPhaseProject
GitHub link	https://github.com/skibrahimsk/FourthPhaseProject.git

[3. Project Co	older Structu	re	



```
📢 File Edit Selection View Go Run Terminal Help
                                                                                         angular.json - OnlineTestApplication-main - Visual Studio Code
ď
        EXPLORER
                                 TS exam.component.ts 2
                                                             # app.component.css
                                                                                       app.component.html
                                                                                                                  TS app.component.spec.ts 9
                                                                                                                                                 {} angular.json 1 ×
      V ONLINE... [4 F4 7 ₽
                                onlineExam > () angular, ison > () projects > () onlineExam > () architect > () build > () configurations > () production > [ ] budgets > () 0
Q

∨ onlineExam

                          +-
                                                    "builder": "@angular-devkit/build-angular:dev-server", "configurations": {
                                  68
         ∨ src
                                   69
          ∨ app
                                   70
                                                        "production": {
0
10K
                                                          "browserTarget": "onlineExam:build:production"
           > exam
           # app.component.css
$
                                                        "development": {
    "browserTarget": "onlineExam:build:development"
                                   73
74
           opp.component.h...
           TS app.compon... 9
8
           TS app.component.ts
           TS app.module.ts
                                                      "defaultConfiguration": "development"

∨ assets

                                                    extract-i18n": {
           .gitkeep
                                                     "builder": "@angular-devkit/build-angular:extract-i18n", "options": {
                                   80

∨ environments

                                   81
           TS environment.pro..
                                                        "browserTarget": "onlineExam:build"
                                   82
           TS environment.ts
          ★ favicon.ico
                                                   "test": {
    "builder": "@angular-devkit/build-angular:karma",
          index.html
         TS main.ts
                                   86
                                                     "options": {
| "main": "src/test.ts",
                                   87
         TS polyfills.ts
                                   88
         # styles.css
                                                        "polyfills": "src/polyfills.ts",
         TS test.ts
                                                       "tsConfig": "tsconfig.spec.json",
"karmaConfig": "karma.conf.js",
                                   90
         ≡ .browserslistrc
                                                        "assets": [
| "src/favicon.ico",
         .editorconfig
                                   92
         .gitignore
                                                          "src/assets"
        {} angular.json
        K karma.conf.is
                                                        "styles": [
         {} package-lock.json
                                   97
        {} package.json

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                                   99
                                                        "scripts": []
                                  100
         {} tsconfig.app.json
                                  101
        stsconfig.json
                                  102
        {} tsconfig.spec.json
                                  103
      > OUTLINE
E833
                                  104
      > TIMELINE
                                            "defaultProiect": "onlineExam"
        Ln 39, Col 45 Spaces: 2 UTF-8
```

5

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app.component.spec.ts - OnlineTestApplication-main - Visual Studio (
🖈 File Edit Selection View Go Run Terminal Help
                                                                                                              TS app.
        EXPLORER
                                TS exam.component.ts 2
                                                           # app.component.css
                                                                                   app.component.html
D

✓ ONLINETESTAPPLICATION...

                                onlineExam > src > app > TS app.component.spec.ts > \textcircled{?} describe('AppComponent') callback > \textcircled{?}
Q

✓ onlineExam

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

✓ src

                                        describe('AppComponent', () => {
    beforeEach(async () => {
                                   4

✓ app

                                   5
           > exam
                                   6
                                            await TestBed.configureTestingModule({
           # app.component.css
                                              declarations: [
           app.component.h...
                                   8
                                                 AppComponent
           TS app.compon... 9
                                   9
B
           TS app.component.ts
                                           }).compileComponents();
                                  11
           TS app.module.ts
                                  12
          > assets
                                  13
                                          it('should create the app', () => {
          > environments
                                  14
                                            const fixture = TestBed.createComponent(AppComponent);
          ★ favicon.ico
                                            const app = fixture.componentInstance;
                                  15
          index.html
                                  16
                                            expect(app).toBeTruthy();
          TS main.ts
                                  17
          TS polyfills.ts
                                  18
                                          it(`should have as title 'onlineExam'`, () => {
                                  19
          # styles.css
                                  20
                                            const fixture = TestBed.createComponent(AppComponent);
         TS test.ts
                                  21
                                            const app = fixture.componentInstance;

≡ .browserslistrc

                                            expect(app.title).toEqual('onlineExam');
                                  22
         .editorconfig
                                  23
         gitignore
                                  24
                                          it('should render title', () => {
        {} angular.json
                                  25
                                  26
                                            const fixture = TestBed.createComponent(AppComponent);
         K karma.conf.js
                                            fixture.detectChanges();
                                  27
        {} package-lock.json
                                  28
                                            const compiled = fixture.nativeElement as HTMLElement;
(2)
        {} package.json
                                            expect(compiled.querySelector('.content span')?.textContent).toC
                                  29
      FEADME md
> OUTLINE
                                  30
                                        });
                                  31
      > TIMELINE
```

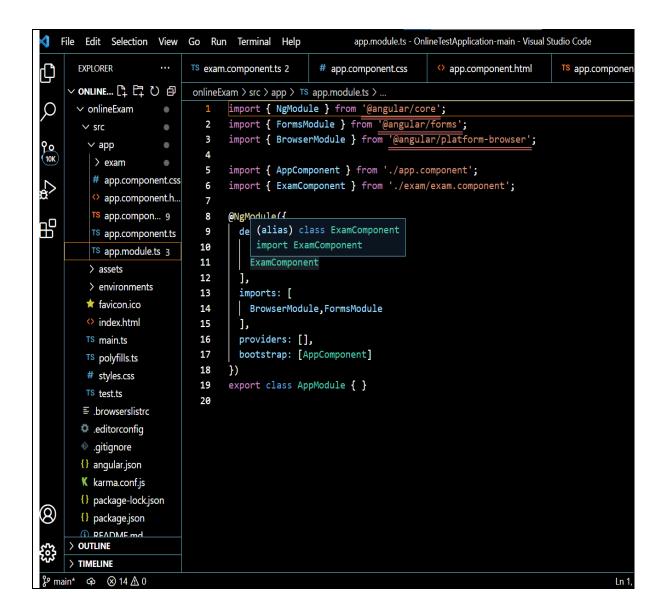
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                                                    # app.component.css
                                                                            app.component.html
                                                                                                      TS app.component.spec.ts 9
                                                                                                                                   TS app.
V ONLINE... ☐ ☐ O 🗗
                         onlineExam > src > app > TS app.component.ts > .
                                 import { Component } from '@angular/core';

✓ onlineExam

                            2
  ∨ src
                            3 ∨ @Component({

✓ app

                                   selector: 'app-root',
                            4
     > exam
                                   templateUrl: './app.component.html',
                            5
     # app.component.css
                                  styleUrls: ['./app.component.css']
     app.component.h...
    TS app.compon... 9
                            8 ∨ export class AppComponent {
                                title = 'onlineExam';
    TS app.compon... 1
                           10
    TS app.module.ts
                           11
   > assets
   > environments
   ★ favicon.ico
   index.html
   TS main.ts
   TS polyfills.ts
   # styles.css
   TS test.ts
  ■ .browserslistrc
  .editorconfig
  .gitignore
  {} angular.json
  K karma.conf.js
  package-lock.json
  {} package.json
  (f) README md
> OUTLINE
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Karma.conf.js

```
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                                                                                                                                       karma.conf.js - OnlineTestApplication-main - Visual Studio Code
          EXPLORER
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                                                                        # app.component.css
                                                                                                       app.component.html
                                                                                                                                        TS app.component.spec.ts 9
         V ONLINE... [1 日 ひ 目
                                        onlineExam > K karma.conf.js >
 Q
                                                 // Karma configuration file, see link for more in
                              +--
                                                  // \underline{\text{https://karma-runner.github.io/1.0/config/configuration-file.html}}
           ∨ src
 0
10K
             ∨ app
                                                  module.exports = function (config) {
             > exam
                                                    config.set({
             # app.component.css
$
              o app.component.h...
                                                       frameworks: ['jasmine', '@angular-devkit/build-angular'],
             TS app.compon... 9
                                                       plugins: [
    require('karma-jasmine'),
                                           8
8
             TS app.component.ts
                                                          require('karma-jasmine'),
require('karma-jasmine-html-reporter'),
require('karma-jasmine-html-reporter'),
require('karma-coverage'),
require('@angular-devkit/build-angular/plugins/karma')
             TS app.module.ts
                                          11
12
13
14

✓ assets

             .gitkeep
             environments
             TS environment.pro..
                                                       client: {
                                          16
17
             TS environment.ts
             ★ favicon.ico
                                                            // you can add comragoration options for Jamaine mere
// the possible options are listed at <a href="https://jamine.github.io/api/edge/Configuration.html">https://jamine.github.io/api/edge/Configuration.html</a>
// for example, you can disable the random execution with "random: false"
// or set a specific seed with "seed: 4321"
                                          18
             index.html
                                          19
             TS main.ts
                                         20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
             TS polyfills.ts
             # styles.css
                                                          clearContext: false // leave Jasmine Spec Runner output visible in browser
            TS test.ts
                                                        jasmineHtmlReporter: {
           ■ .browserslistro
                                                          suppressAll: true // removes the duplicated traces
           .editorconfig
            aitianore
                                                        coverageReporter: {
    dir: require('path').join(_dirname, './coverage/onlineExam'),
          {} angular.json
           K karma.conf.js
                                                          subdir: '.
                                                         reporters: [
| { type: 'html' },
| { type: 'text-summary' }
|
           {} package-lock.json
           {} package.json

    README.md

           {} tsconfig.app.json
           stsconfig.json
                                          35
36
37
38
                                                       reporters: ['progress', 'kjhtml'],
           {} tsconfig.spec.json
          {} package-lock.json
                                                       logLevel: config.LOG_INFO,
         (i) README.md
                                                       autoWatch: true,
browsers: ['Chrome'],
                                          39
40
41
42
                                                      singleRun: false,
restartOnFileChange: true
                                          43
44
45
8
EEE
       > OUTLINE
       > TIMELINE
```

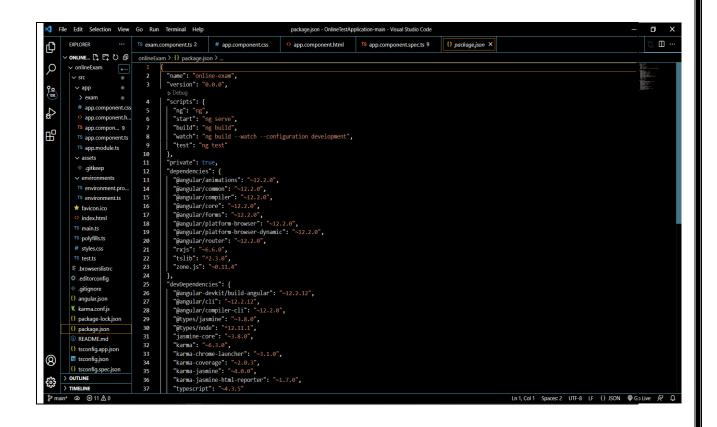
```
X File Edit Selection View Go Run Terminal Help
                                                                main.ts - OnlineTestApplication-main - Visual Studio Code
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                                                                                                                                                                     □ ·
                             TS exam.component.ts 2
                                                       # app.component.css
                                                                              app.component.html
                                                                                                       TS app.component.spec.ts 9
                                                                                                                                  TS main.ts 3 X
      V ONLINE... [ + F ↑ O f onlineExam > src > TS main.ts > ...
                                     import { enableProdMode } from '@angular/core';
                                import { platformBrowserDynamic } from '@angular/platform-browser-dynamic';
           # app.component.css
          app.component.h...
                                4 import { AppModule } from './app/app.module';
          TS app.compon... 9
                                5 import { environment } from './environments/environment';
          TS app.component.ts
          TS app.module.ts
                                     if (environment.production) {
          ∨ assets
                                8
                                      enableProdMode();
8
                                9 }
          .gitkeep
                               10

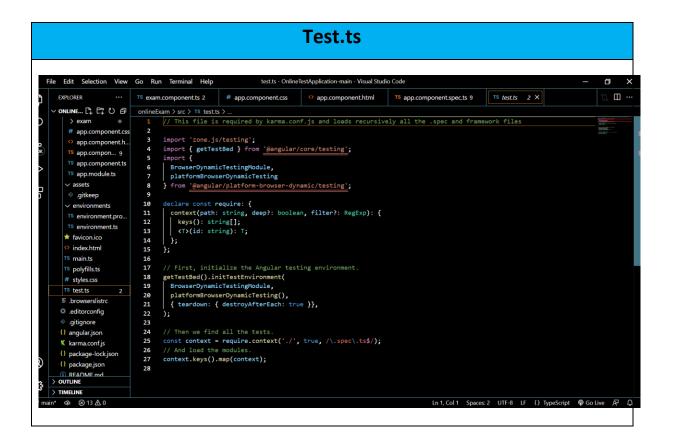
∨ environments

                                     platformBrowserDynamic().bootstrapModule(AppModule)
                               11
          TS environment.pro...
                                    .catch(err => console.error(err));
                               12
          TS environment.ts
                               13
         ★ favicon.ico
         index.html
         TS main.ts
         TS polyfills.ts
         # styles.css
         TS test.ts
        ■ .browserslistrc
        .editorconfig
        .gitignore
        {} angular.json
        K karma.conf.js
        {} package-lock.json
        {} package.json
        (i) README md
      > OUTLINE
```

Package:

Package





tsconfig.json { "extends": "./tsconfig.json", "compilerOptions": { "outDir": "./out-tsc/app", "types": [] }, "files": ["src/main.ts", "src/polyfills.ts"], "include": ["src/**/*.d.ts"] }

tsconfig.json

```
"compileOnSave": false,
"compilerOptions": {
  "baseUrl": "./",
 "outDir": "./dist/out-tsc",
 "forceConsistentCasingInFileNames": true,
 "strict": true,
 "noImplicitReturns": true,
 "noFallthroughCasesInSwitch": true,
 "sourceMap": true,
 "declaration": false,
  "downlevelIteration": true,
 "experimentalDecorators": true,
 "moduleResolution": "node",
 "importHelpers": true,
  "target": "es2017",
 "module": "es2020",
  "lib": [
   "es2018",
    "dom"
 ]
},
"angularCompilerOptions": {
  "enableI18nLegacyMessageIdFormat": false,
 "strictInjectionParameters": true,
 "strictInputAccessModifiers": true,
  "strictTemplates": true
```

```
Tsconfig/spec

/* To learn more about this file see: https://angular.io/config/tsconfig. */
{
    "extends": "./tsconfig.json",
    "compilerOptions": {
        "outDir": "./out-tsc/spec",
        "types": [
            "jasmine"
        ]
    },
    "files": [
        "src/test.ts",
        "src/polyfills.ts"
    ],
    "include": [
        "src/**/*.spec.ts",
        "src/**/*.d.ts"
    ]
}
```

```
<meta charset="utf-8">
  <title>OnlineExam</title>
  <base href="/">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  k rel="icon" type="image/x-icon" href="favicon.ico">
  k rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.cs
s" integrity="sha384-
zCbKRCUGaJDkqS1kPbPd7TveP5iyJE0EjAuZQTgFLD2ylzuqKfdKlfG/eSrtxUkn"
crossorigin="anonymous">
  </head>
  <body>
    <app-root></app-root></body>
  </body>
  </html>
```

Exam.component

```
import { Component, OnInit } from '@angular/core';
import { NgForm } from '@angular/forms';
@Component({
  selector: 'app-exam',
 templateUrl: './exam.component.html',
  styleUrls: ['./exam.component.css']
})
export class ExamComponent implements OnInit {
  correctAns:number=0;
 incorrectAns:number=0;
  submitted:boolean=false;
  flag:boolean=false;
 Attempt:string[]=[];
  constructor() { }
 ngOnInit(): void {
  questions=[
    {"question":"1000+1=
        _","op":["10001","1001","1000","100001"],"ans":"1001","attempt":null
```

```
{"question":"1000-500 = }
      _","op":["500","501","502","503"],"ans":"500","attempt":null},
  {"question":"5+5 =
      _","op":["10","55","25","50"],"ans":"10","attempt":null},
  {"question":"10 + 90 =
       _","op":["1090","19","90","100"],"ans":"100","attempt":null},
  {"question":"30+ 70 =
      _","op":["100","101","10","10"],"ans":"100","attempt":null},
  {"question":"1000-1=
       _","op":["999","1001","1000","100001"],"ans":"999","attempt":null},
  {"question":"1000/1=
      _","op":["100","1001","1000","101"],"ans":"1000","attempt":null},
  {"question":"1000*1=
      _","op":["100","1001","1000","10001"],"ans":"1000","attempt":null},
  {"question":"100+1=
      _","op":["101","1001","1000","100001"],"ans":"101","attempt":null},
  {"question":"10+1=
      _","op":["11","1001","1000","101"],"ans":"11","attempt":null}
  1
checkAnswer(selected:NgForm){
  console.log(selected.value);
  for(let x=0;x<10;x++){
  let ans1=this.questions[x].ans;
  this.questions[x].attempt=selected.value[x+1];
  if(selected.value[x+1]==ans1){
    this.correctAns++;
 else{
   this.incorrectAns++;
this.flag=true;
}
Review(){
  this.submitted=true;
```

Exam.component

```
import { ComponentFixture, TestBed } from '@angular/core/testing';
import { ExamComponent } from './exam.component';
describe('ExamComponent', () => {
 let component: ExamComponent;
 let fixture: ComponentFixture<ExamComponent>;
 beforeEach(async () => {
    await TestBed.configureTestingModule({
      declarations: [ ExamComponent ]
    .compileComponents();
 });
 beforeEach(() => {
    fixture = TestBed.createComponent(ExamComponent);
    component = fixture.componentInstance;
    fixture.detectChanges();
  });
 it('should create', () => {
    expect(component).toBeTruthy();
  });
});
```

Exam Component.html

```
<input type="radio" name="{{i+1}}" value="{{o}}" ngModel>{{o}}
      </div><br>
   </div>
   <input type="submit" class="btn btn-success" value="submit">
</form>
<br>
   <div class="card text-center" *ngIf="flag">
      <div class="card-header">
       EXAM RESULT
      </div>
      <div class="card-body">
       <h5 class="card-title">Correct ANSWER={{correctAns}}</h5>
       <h5 class="card-title">Incorrect ANSWER={{incorrectAns}}</h5>
       <input type="button" value="Review" (click)="Review()" class="btn</pre>
btn-primary" ><br><br>
      </div>
    </div>
<br><br><br><
<div *ngIf="submitted">
   <h6>Review the correct Answer of all the question and your attemps!</h6>
   <thead class="thead-dark">
         <!-- <th scope="col"># -->
          Question
          CorrectAns
          Attempted
         </thead>
       <!-- <div *ngFor="let n of questions;">
            {{n.ans}}
               {{n.attempt}}
            </div> -->
         {{n.question}}
            {{n.ans}}
            {{n.attempt}}
```

```
</div>
</div>
```

4. Sprint Work.

- 1. Sprint:1:
- Created Project Folder .
- Added to Visual Studio.
- Created Entity.
- 5. Sprint:2:
- Created index.html.
- Created main file.
- Created HTML files.
- 6. Sprint:3:
- Created property files.
- Created OnlineTestApplication angular.json.
- Pushed the code to the repository.

ThankYou.