

## SL LAB QS

SB

Saswati Bhattacharya,SMIT

Mon 12/7/2020 9:56 AM

To: AKSHAY KUMAR



4. Create an **online quiz web application** having following modules -

- Create a quiz* – each quiz will have a quiz ID, quiz name and maximum marks
- Adding a question* (MCQ only) to the *quiz* – MCQ shall have four(4) options, correct answer and mark for each question.
- Take quiz* – on clicking on the link (<http://localhost::3000/quiz>) -> the quiz should start and on submission total marks percentage obtained(*Score Card*) should be displayed.

### Note:

- Design your front-end using Angular and back-end(Take quiz) using Node/Express
- Make sure you use Services in the front-end for data sharing, the component structure is given below
- Weightage shall be given to good UI design.

*app*

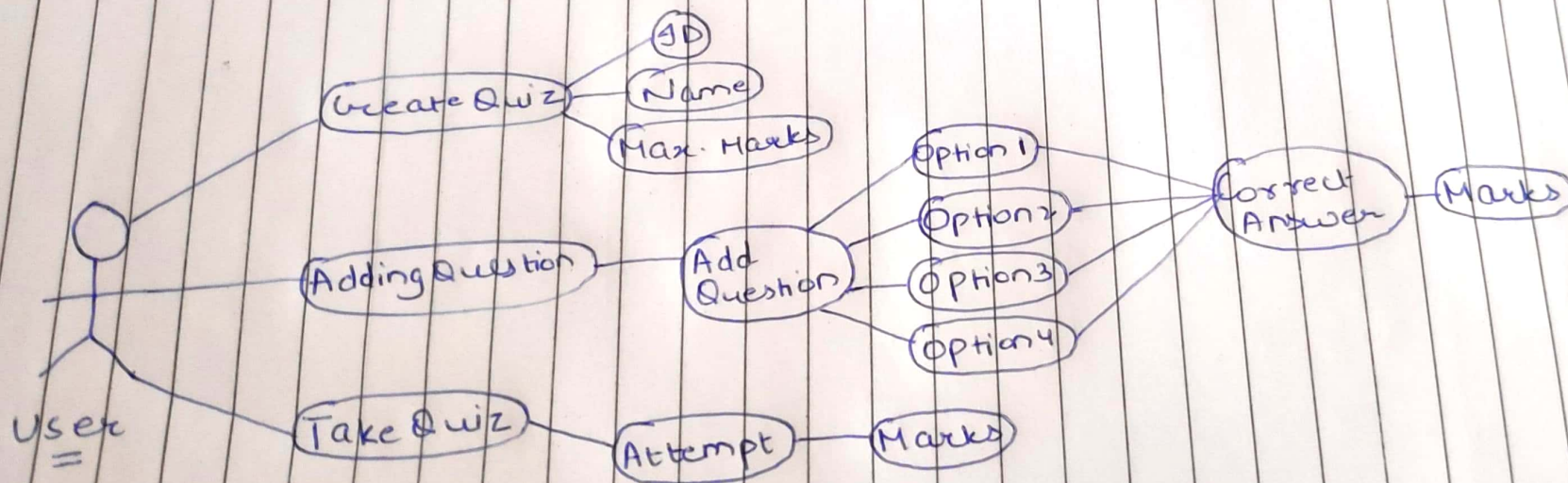
<i>header</i>	
<i>question-area</i>	<i>score-card</i>
<i>footer</i>	

NAME → AKSHAY KUMAR

SEC → B

ROLL NO → 40

Reg. No → 201800498



Use Case  
Diagram



File Edit Selection View Go Run Terminal Help

app.po.ts - Angular-Quiz-Application - Visual Studio Code

EXPLORER

> OPEN EDITORS

ANGULAR-QUIZ-APPLICAT...

> .github

> e2e

> src

TS app.e2e-spec.ts

TS app.po.ts

JS protractor.conf.js

{ tsconfig.e2e.json

> node\_modules

> src

> app

# app.compon... M

< app.compon... M

TS app.component.sp...

TS app.compon... M

TS app.module.ts

TS question-class.ts

> assets

> environments

≡ browserslist

★ favicon.ico

< index.html

🔍 karma.conf.js

TS main.ts

TS polyfills.ts

# styles.css

TS test.ts

{ tsconfig.app.json

{ tsconfig.spec.json

{ tslint.json

> OUTLINE

> TIMELINE

e2e > src > TS app.po.ts > ...

```
1 import { browser, by, element } from 'protractor';
2
3 export class AppPage {
4   navigateTo() {
5     return browser.get('/');
6   }
7
8   getParagraphText() {
9     return element(by.css('app-root h1')).getText();
10  }
11 }
12
```

master

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app.component.html - Angular-Quiz-Application - Visual Studio Code

EXPLORER

- ANGULAR-QUIZ-APPLICAT...
- .github
- e2e
  - src
    - TS app.e2e-spec.ts
    - TS app.po.ts
    - JS protractor.conf.js
    - tsconfig.e2e.json
  - node\_modules
  - src
    - app
      - # app.compon... M
      - app.compon... M
      - TS app.component.sp... M
      - TS app.compon... M
      - TS app.module.ts
      - TS question-class.ts
    - assets
    - environments
    - browserslist
    - favicon.ico
    - index.html
    - karma.conf.js
    - main.ts
    - polyfills.ts
    - styles.css
    - test.ts
    - tsconfig.app.json
    - tsconfig.spec.json
    - tslint.json
  - OUTLINE
  - TIMELINE

src > app > app.component.html > div.container > h3

```
108 <span style="color: red;" [hidden]="!(a?.invalid)">*

21 Spaces: 2 UTF-8 GBK UTF-16



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```

File Edit Selection View Go Run Terminal Help app.component.html - Angular-Quiz-Application - Visual Studio Code

EXPLORER

- ANGULAR-QUIZ-APPLICAT...
- .github
- e2e
  - src
    - TS app.e2e-spec.ts
    - TS app.po.ts
- protractor.conf.js
- tsconfig.e2e.json
- node\_modules
- src
  - app
    - # app.compon... M
    - app.compon... M
    - TS app.component.sp... M
    - TS app.compon... M
    - TS app.module.ts
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  - assets
  - environments
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  - main.ts
  - polyfills.ts
  - styles.css
  - test.ts
  - tsconfig.app.json
  - tsconfig.spec.json
  - tslint.json
- OUTLINE
- TIMELINE

src > app > < app.component.html > div.container > h3

```
147 <div class="form-group">
148   <label for="b">Option d.</label>
149   <span style="color: red;" [hidden]="!(d?.invalid)">*</span>
150   <input type="text" class="form-control" name="d" placeholder="Enter fourth Option" [(ngModel)]="questionObj.d" [ngClass]="{
151     'is-invalid': d?.invalid && (d?.dirty || d?.touched),
152     'is-valid': d?.valid && (d?.dirty || d?.touched)
153   }" #d="ngModel" required>
154   <div class="invalid-feedback" *ngIf="d.errors && (d.dirty || d.touched)">
155     <p *ngIf="d.errors.required">Option is required</p>
156   </div>
157 </div>
158 </div>
159 </div>
160
161 <div class="form-group row">
162   <label class="col-md-12 label-font">Choose Correct Answer Option
163   <span style="color: red;" [hidden]="!(answer?.invalid)">*</span>
164   </label>
165   <div class="col-md-12">
166     <div class="form-check form-check-inline mr-2">
167       <input class="form-check-input" type="radio" name="answer" value="a" [(ngModel)]="questionObj.answer" #answer="ngModel" required>
168       <label class="form-check-label">a.</label>
169     </div>
170     <div class="form-check form-check-inline mr-2">
171       <input class="form-check-input" type="radio" name="answer" value="b" [(ngModel)]="questionObj.answer" #answer="ngModel" required>
172       <label class="form-check-label">b.</label>
173     </div>
174     <div class="form-check form-check-inline mr-2">
175       <input class="form-check-input" type="radio" name="answer" value="c" [(ngModel)]="questionObj.answer" #answer="ngModel" required>
176       <label class="form-check-label">c.</label>
177     </div>
178     <div class="form-check form-check-inline mr-2">
179       <input class="form-check-input" type="radio" name="answer" value="d" [(ngModel)]="questionObj.answer" #answer="ngModel" required>
180       <label class="form-check-label">d.</label>
181     </div>
182   </div>
183 </div>
```

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app.component.html - Angular-Quiz-Application - Visual Studio Code

EXPLORER

- ANGULAR-QUIZ-APPLICAT...
- .github
- e2e
  - src
    - TS app.e2e-spec.ts
    - TS app.po.ts
  - JS protractor.conf.js
  - tsconfig.e2e.json
- node\_modules
- src
  - app
    - # app.compon... M
    - app.compon... M
    - TS app.component.sp...
    - TS app.compon... M
    - TS app.module.ts
    - TS question-class.ts
  - assets
  - environments
  - browserslist
  - favicon.ico
  - index.html
  - karma.conf.js
  - main.ts
  - polyfills.ts
  - styles.css
  - test.ts
  - tsconfig.app.json
  - tsconfig.spec.json
  - tslint.json

OUTLINE

TIMELINE

master

src > app > < app.component.html > div.container > h3

```
183 |         </div>
184 |     </form>
185 |     <span>
186 |         <button type="button" class="btn btn-primary" (click)="submitAddQuestion()" [disabled]="questionForm.invalid" [class.cursor-restriction]="
187 |         | style="margin-right: 17px;">ADD Question</button>
188 |     </span>
189 |     <button type="button" class="btn btn-default" (click)="addQuestionModal.hide()">Close</button>
190 | </div>
191 | </div>
192 | <!-- /.modal-content -->
193 | </div>
194 | <!-- /.modal-dialog -->
195 | </div>
196 | <!-- /.modal -->
197 | <div bsModal #answerModal="bs-modal" class="modal fade" [config]="{backdrop: 'static'}" tabindex="-1" role="dialog" aria-labelledby="myModalLabel"
198 |     aria-hidden="true">
199 |     <div class="modal-dialog" role="document">
200 |         <div class="modal-content">
201 |             <div class="modal-body text-center" style="color: #196f77;">
202 |                 <div *ngFor="let ques of allQuestions" [style.color]="!ques.selected ? '#ffc107' : ques.selected == ques.answer ? 'green': 'red'">
203 |                     <div>{{ques.question}}</div>
204 |                     <div>Your Answer: {{ques[ques.selected]}}</div>
205 |                     <div>Right Answer: {{ques.answer}} {{ques[ques.answer]}}</div>
206 |                     <hr>
207 |                 </div>
208 |                 <button type="button" class="btn btn-default" (click)="answerModal.hide()" style="margin-left: 17px;">Close</button>
209 |             </div>
210 |         </div>
211 |     <!-- /.modal-content -->
212 | </div>
213 | <!-- /.modal-dialog -->
214 | </div>
215 | <!-- /.modal -->
```

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File Edit Selection View Go Run Terminal Help

app.component.html - Angular-Quiz-Application - Visual Studio Code

EXPLORER

ANGULAR-QUIZ-APPLICAT...

- .github
- e2e
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- (I) tsconfig.e2e.json
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    - TS app.component.sp...
    - TS app.compon... M
    - TS app.module.ts
    - TS question-class.ts
  - assets
  - environments
  - browserslist
  - favicon.ico
  - index.html
  - karma.conf.js
  - TS main.ts
  - TS polyfills.ts
  - # styles.css
  - TS test.ts
  - (I) tsconfig.app.json
  - (I) tsconfig.spec.json
  - (I) tslint.json
- OUTLINE
- TIMELINE

index.html app.component.html X TS app.component.ts TS app.e2e-spec.ts TS app.po.ts # app.component.css TS app.component.spec.ts

src > app > app.component.html > div.container > h3

```
36 <div class="form-check form-check-inline mr-1">
37   <input class="form-check-input" type="radio" name="{{ques.id}}" value="c" [(ngModel)]="ques.selected">
38   <label class="form-check-label">c{{ques.c}}</label>
39 </div>
40 <div class="form-check form-check-inline mr-1">
41   <input class="form-check-input" type="radio" name="{{ques.id}}" value="d" [(ngModel)]="ques.selected">
42   <label class="form-check-label">d{{ques.d}}</label>
43 </div>
44 </div>
45 </div>
46 </div>
47 <hr>
48 </div>
49 </form>
50 <div class="row">
51   <div class="col-12" style="justify-content: center; display: flex;">
52     <button type="button" class="btn btn-default" (click)="HomePage()" style="margin-right: 30px;">Cancel</button>
53     <button type="button" class="btn btn-primary" (click)="submitTest()">Submit</button>
54   </div>
55 </div>
56 </div>
57 </div>
58 </div>
59 </div>
60 <div bsModal #submitModal="bs-modal" class="modal fade" [config]="{backdrop: 'static'}" tabindex="-1" role="dialog" aria-labelledby="myModalLabel"
61   aria-hidden="true">
62   <div class="modal-dialog" role="document">
63     <div class="modal-content">
64       <div class="modal-body text-center" style="color: #196f77;">
65         <h4>Total Questions: {{allQuestions.length}} </h4>
66         <h4>
67           Total Answered: {{totalAnswered}}
68         </h4>
69         <h4>
70           Right Answer : {{rightAnswer}}
71         </h4>
72         <span>
73           <button type="button" class="btn btn-primary" (click)="checkAnswers()" style="margin-right: 17px;">Answers</button>
```

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File Edit Selection View Go Run Terminal Help app.component.html - Angular-Quiz-Application - Visual Studio Code

EXPLORER

- ANGULAR-QUIZ-APPLICAT...
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  - tsconfig.spec.json
  - tslint.json
- OUTLINE
- TIMELINE

src > app > < app.component.html > div.container > h3

```
76 |   </div>
77 | </div>
78 | <!-- /.modal-content -->
79 | </div>
80 | <!-- /.modal-dialog -->
81 | </div>
82 | <!-- /.modal -->
83 | <div bsModal #addQuestionModal="bs-modal" class="modal fade" [config]="{backdrop: 'static'}" tabindex="-1" role="dialog"
84 |   aria-labelledby="myModalLabel" aria-hidden="true">
85 |   <div class="modal-dialog modal-lg" role="document">
86 |     <div class="modal-content">
87 |       <div class="modal-body text-center" style="color: #196f77;">
88 |         <form #questionForm="ngForm" novalidate>
89 |           <div class="row">
90 |             <div class="col-sm-12 col-12 col-lg-12">
91 |               <div class="form-group">
92 |                 <label for="question" class="label-font"> Add Question</label>
93 |                 <span style="color: red;" [hidden]="!(question?.invalid)">*</span>
94 |                 <input type="text" class="form-control" name="question" placeholder="Enter Question" [(ngModel)]="questionObj.question" [ngClass]="{
95 |                   'is-invalid': question?.invalid && (question?.dirty || question?.touched),
96 |                   'is-valid': question?.valid && (question?.dirty || question?.touched)
97 |                 }" #question="ngModel" required>
98 |                 <div class="invalid-feedback" *ngIf="question.errors && (question.dirty || question.touched)">
99 |                   <p *ngIf="question.errors.required">Question Description is required</p>
100 |                 </div>
101 |               </div>
102 |             </div>
103 |           </div>
104 |           <div class="row">
105 |             <div class="col-sm-12 col-12 col-lg-6">
106 |               <div class="form-group">
107 |                 <label for="a">Option a.</label>
108 |                 <span style="color: red;" [hidden]="!(a?.invalid)">*</span>
109 |                 <input type="text" class="form-control" name="a" placeholder="Enter First Option" [(ngModel)]="questionObj.a" [ngClass]="{
110 |                   'is-invalid': a?.invalid && (a?.dirty || a?.touched),
111 |                   'is-valid': a?.valid && (a?.dirty || a?.touched)
112 |                 }" #a="ngModel" required>
```

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index.html - Angular-Quiz-Application - Visual Studio Code

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EXPLORER

OPEN EDITORS

ANGULAR-QUIZ-APPLICAT...

- .github
- e2e
  - src
    - app.e2e-spec.ts
    - app.po.ts
- protractor.conf.js
- tsconfig.e2e.json
- node\_modules
- src
  - app
    - app.component.spec.ts
    - app.component.ts
    - app.module.ts
    - question-class.ts
  - assets
  - environments
  - browserslist
  - favicon.ico
  - index.html
  - karma.conf.js
  - main.ts
  - polyfills.ts
  - styles.css
  - test.ts
  - tsconfig.app.json
  - tsconfig.spec.json
  - tslint.json

OUTLINE

TIMELINE

index.html

```
1 <!doctype html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8">
5   <title>Angular Quiz</title>
6   <base href="/">
7
8   <meta name="viewport" content="width=device-width, initial-scale=1">
9   <link rel="icon" type="image/x-icon" href="favicon.ico">
10 </head>
11 <body>
12   <app-root></app-root>
13 </body>
14 </html>
15
```

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OPEN EDITORS

ANGULAR-QUIZ-APPLICAT...

.github

e2e

src

TS app.e2e-spec.ts

TS app.po.ts

JS protractor.conf.js

tsconfig.e2e.json

node\_modules

src

app

# app.compon... M

app.compon... M

TS app.component.sp...

TS app.compon... M

TS app.module.ts

TS question-class.ts

assets

environments

browserslist

favicon.ico

index.html

karma.conf.js

main.ts

polyfills.ts

styles.css

test.ts

tsconfig.app.json

tsconfig.spec.json

tslint.json

OUTLINE

TIMELINE

app.component.html X

TS app.component.ts

TS app.e2e-spec.ts

TS app.po.ts

# app.component.css

TS app.component.spec.ts

```
src > app > < app.component.html > div.container > h3
1 <div class="container">
2   <h3 style="text-align:center">
3     Welcome to Quiz.
4   </h3>
5   <div class="card" [hidden]="isQuestionCardShow">
6     <div class="card-body">
7       <h5 class="card-title" style="text-align:center">Choose Option &#x263A; </h5>
8       <!-- <p class="card-text">Some quick example text to build on the card title and make up the bulk of the card's content.</p> -->
9       <div class="row justify-content-md-center">
10        <div class="col-sm-12 col-lg-3">
11          <button class="btn btn-block btn-outline-primary cursor-restriction" (click)="addQuestion()" style="margin-top: 24px;">
12            Add Questions </button>
13        </div>
14        <div class="col-sm-12 col-lg-3">
15          <button class="btn btn-block btn-outline-primary cursor-restriction" style="margin-top: 24px;" (click)="startQuiz()">
16            Start Quiz </button>
17        </div>
18      </div>
19    </div>
20  </div>
21 </div>
22 <div class="card" [hidden]="!isQuestionCardShow">
23   <div class="card-body">
24     <form #questionTest="ngForm" novalidate>
25       <div *ngFor="let ques of allQuestions">
26         <div>{{ques.question}}</div>
27         <div class="form-group row">
28           <label class="col-md-3 col-form-label">Choose Correct Option</label>
29           <div class="col-md-9 col-form-label">
30             <div class="form-check form-check-inline mr-1">
31               <input class="form-check-input" type="radio" name="{{ques.id}}" value="a" [(ngModel)]="ques.selected">
32               <label class="form-check-label">a) {{ques.a}} </label>
33             </div>
34             <div class="form-check form-check-inline mr-1">
35               <input class="form-check-input" type="radio" name="{{ques.id}}" value="b" [(ngModel)]="ques.selected">
36               <label class="form-check-label">b){{ques.b}}</label>
37             </div>
```

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## Welcome to Quiz Application

What is the capital of Belgium?

Choose Correct Option

What is the capital of Australia?

Choose Correct Option

What is the capital of Bulgaria?

Choose Correct Option

What is the capital of Belgium?

Your Answer: Brussels

Right Answer: c) Brussels

What is the capital of Australia?

Your Answer: Brussels

Right Answer: b) Canberra

What is the capital of Bulgaria?

Your Answer:

Right Answer: b) Sofia

Close