Source code of Online-Quiz-Website:

- Quiz Component:
 - 1. Quiz.component.html:

```
<div id="quiz" class="container mt-5">
  <h2 class="text-center fw-bold text-uppercase">{{ quiz.name }}</h2></h2>
  <div *ngIf="mode == 'quiz' && quiz">
    <div *ngFor="let question of filteredQuestions">
      <div class="mb-4">
        <span class="badge bg-info">
          Question {{ pager.index + 1 }} of {{ pager.count }}.
        </span>
        <span *ngIf="config.duration" class="badge bg-info float-end">
          Time: {{ ellapsedTime }} / {{ duration }}
        </span>
      </div>
      <h3 class="fw-normal mb-4">
        \{\{\text{pager.index} + 1\}\}.
        <span [innerHTML]="question.name"></span>
      <div class="row text-left options">
        <div class="col-6" *ngFor="let option of question.options">
          <div class="option">
            <label class="fw-normal" [attr.for]="option.id">
              <input</pre>
                id="{{ option.id }}"
                type="checkbox"
                [(ngModel)]="option.selected"
                (change)="onSelect(question, option)"
              {{ option.name }}
            </label>
          </div>
        </div>
      </div>
    </div>
    <div class="text-center">
      <button
        class="btn btn-outline-primary mx-2"
```

```
*ngIf="config.allowBack"
      (click)="goTo(0)"
     First
   </button>
   <button
     class="btn btn-outline-primary mx-2"
      *ngIf="config.allowBack"
      (click)="goTo(pager.index - 1)"
     Prev
   </button>
   <button
     class="btn btn-outline-primary mx-2"
      (click)="goTo(pager.index + 1)"
     Next
   </button>
   <button
     class="btn btn-outline-primary mx-2"
      *ngIf="config.allowBack"
     (click)="goTo(pager.count - 1)"
     Last
   </button>
 </div>
</div>
<div class="row text-center" *ngIf="mode == 'review'">
   class="col-4 cursor-pointer"
   *ngFor="let question of quiz.questions; let index = index"
   <div
      (click)="goTo(index)"
     class="p-3 mb-2 {{
       isAnswered(question) == 'Answered' ? 'bg-info' : 'bg-warning'
     }}"
     {{ index + 1 }}. {{ isAnswered(question) }}
   </div>
 </div>
</div>
<div class="result" *ngIf="mode == 'result'">
 <h2>
```

```
Quiz Result:
     <span class="badge bg-success"</pre>
        >Your Score is: {{ quizScore }} Out of {{ quizTotalScore }}/span
   </h2>
   <div *ngFor="let question of quiz.questions; let index = index">
     <div class="result-question">
       <h5>{{ index + 1 }}. {{ question.name }}</h5>
       <div class="row">
         <div class="col-6" *ngFor="let Option of question.options">
            <input</pre>
             id="{{ Option.id }}"
             type="checkbox"
             disabled="disabled"
              [(ngModel)]="Option.selected"
           {{ Option.name }}
         </div>
       </div>
       <div
         class="p-1 m-2 alert {{
           isCorrect(question) == 'correct' ? 'alert-success' : 'alert-danger'
         }}"
         Your answer is {{ isCorrect(question) }}.
       </div>
     </div>
   </div>
   <h4 class="alert alert-info text-center">You may close this window now.</h4>
 </div>
 <div *ngIf="mode != 'result'">
   <button class="btn btn-warning mx-2" (click)="mode = 'quiz'">Quiz</button>
   <button class="btn btn-info mx-2" (click)="mode = 'review'">Review</button>
   <button class="btn btn-primary mx-2" (click)="onSubmit()">
     Submit Quiz
   </button>
 </div>
</div>
```

2. Quiz.component.spec.ts:

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

3. Quiz.component.ts:

```
import { Component, OnInit } from '@angular/core';
import { ActivatedRoute } from '@angular/router';
import { Option } from 'src/app/models/option';
import { Question } from 'src/app/models/question';
import { Quiz } from 'src/app/models/quiz';
import { QuizConfig } from 'src/app/models/quiz-config';
import { QuizService } from 'src/app/services/quiz.service';

@Component({
    selector: 'app-quiz',
    templateUrl: './quiz.component.html',
    styleUrls: ['./quiz.component.css'],
})
export class QuizComponent implements OnInit {
    quizes: any[];
    quiz: Quiz = new Quiz(null);
    mode = 'quiz';
```

```
quizName: string;
  quizScore: number;
  quizTotalScore: number;
 config: QuizConfig = {
   allowBack: true,
   allowReview: true,
    autoMove: false, // if true, it will move to next question automatically when
answered.
   duration: 300, // indicates the time (in secs) in which quiz needs to be
completed. 0 means unlimited.
   pageSize: 1,
    requiredAll: false, // indicates if you must answer all the questions before
submitting.
   richText: false,
    shuffleQuestions: false,
    shuffleOptions: false,
   showClock: false,
    showPager: true,
   theme: 'none',
 };
  pager = {
   index: 0,
   size: 1,
   count: 1,
  };
 timer: any = null;
  startTime: Date;
  endTime: Date;
  ellapsedTime = '00:00';
  duration = '';
  constructor(
   private quizService: QuizService,
   private route: ActivatedRoute
  ) {}
 ngOnInit() {
   this.quizes = this.quizService.getAll();
   this.quizScore = 0;
   // this.quizName = this.quizes[0].id;
   // this.loadQuiz(this.quizName);
   this.route.paramMap.subscribe(() => {
     this.handleQuiz();
    });
```

```
handleQuiz() {
  const quizName: string = this.route.snapshot.paramMap.get('quizName');
  const quiz: any = this.quizes.find((o) => o.name === quizName);
  const quizUrl: string = quiz.id;
  this.loadQuiz(quizUrl);
}
loadQuiz(quizName: string) {
  this.quizService.get(quizName).subscribe((res) => {
    //console.log(`Quiz Name: ${quizName} Response: ${JSON.stringify(res)} ` )
    this.quiz = new Quiz(res);
    this.pager.count = this.quiz.questions.length;
    this.quizTotalScore = this.quiz.questions.length;
    this.startTime = new Date();
    this.ellapsedTime = '00:00';
    this.timer = setInterval(() => {
     this.tick();
    }, 1000);
    this.duration = this.parseTime(this.config.duration);
  });
  this.mode = 'quiz';
tick() {
  const now = new Date();
  const diff = (now.getTime() - this.startTime.getTime()) / 1000;
  if (diff >= this.config.duration) {
    this.onSubmit();
 this.ellapsedTime = this.parseTime(diff);
parseTime(totalSeconds: number) {
  let mins: string | number = Math.floor(totalSeconds / 60);
  let secs: string | number = Math.round(totalSeconds % 60);
  mins = (mins < 10 ? '0' : '') + mins;
  secs = (secs < 10 ? '0' : '') + secs;
  return `${mins}:${secs}`;
get filteredQuestions() {
  return this.quiz.questions
    ? this.quiz.questions.slice(
```

```
this.pager.index,
        this.pager.index + this.pager.size
    : [];
onSelect(question: Question, option: Option) {
  if (question.questionTypeId === 1) {
    question.options.forEach((x) => {
      if (x.id !== option.id) x.selected = false;
    });
    if (this.isCorrect(question) == 'correct') {
      this.quizScore = this.quizScore + 1;
  if (this.config.autoMove) {
    this.goTo(this.pager.index + 1);
goTo(index: number) {
  if (index >= 0 && index < this.pager.count) {</pre>
    this.pager.index = index;
    this.mode = 'quiz';
isAnswered(question: Question) {
  return question.options.find((x) => x.selected)
    ? 'Answered'
    : 'Not Answered';
isCorrect(question: Question) {
  return question.options.every((x) => x.selected === x.isAnswer)
    ? 'correct'
    : 'wrong';
onSubmit() {
  let answers = [];
  this.quiz.questions.forEach((x) =>
    answers.push({
      quizId: this.quiz.id,
```

```
questionId: x.id,
    answered: x.answered,
})
);

// Post your data to the server here. answers contains the questionId and the users' answer.
    //console.log(this.quiz.questions);
    this.mode = 'result';
}
```

Quiz list component:

1. Quiz-list.component.html:

```
<div class="container mt-5">
 <div class="row">
   <div *ngFor="let tempQuiz of quizes" class="col-md-4">
     <div class="card">
       <img
         src="{{ tempQuiz.imageUrl }}"
         class="card-img-top"
         alt="Quiz Image"
       <div class="card-body text-center">
         <h5 class="card-title">
           {{ tempQuiz.name }}
         </h5>
         {{ tempQuiz.description }}
         routerLink="/quiz/{{ tempQuiz.name }}"
           class="btn btn-outline-primary"
           >Give {{ tempQuiz.name }} Quiz</a</pre>
       </div>
     </div>
   </div>
 </div>
</div>
```

2. Quiz-list.component.spec.ts:

```
<div class="container mt-5">
 <div class="row">
   <div *ngFor="let tempQuiz of quizes" class="col-md-4">
     <div class="card">
       <img
         src="{{ tempQuiz.imageUrl }}"
         class="card-img-top"
         alt="Quiz Image"
       <div class="card-body text-center">
         <h5 class="card-title">
           {{ tempQuiz.name }}
         </h5>
         {{ tempQuiz.description }}
         routerLink="/quiz/{{ tempQuiz.name }}"
           class="btn btn-outline-primary"
           >Give {{ tempQuiz.name }} Quiz</a</pre>
       </div>
     </div>
   </div>
 </div>
</div>
```

3. Quiz-list.component.ts:

```
import { Component, OnInit } from '@angular/core';
import { Quiz } from 'src/app/models/quiz';
import { QuizService } from 'src/app/services/quiz.service';

@Component({
   selector: 'app-quiz-list',
```

```
templateUrl: './quiz-list.component.html',
    styleUrls: ['./quiz-list.component.css'],
})
export class QuizListComponent implements OnInit {
    quizes: any[] = [];

    constructor(private quizService: QuizService) {}

    ngOnInit(): void {
        this.quizes = this.quizService.getAll();
    }
}
```

Model:

1. Option.ts:

```
export class Option {
   id: number;
   questionId: number;
   name: string;
   isAnswer: boolean;
   selected: boolean;

   constructor(data: any) {
      data = data || {};
      this.id = data.id;
      this.questionId = data.questionId;
      this.name = data.name;
      this.isAnswer = data.isAnswer;
   }
}
```

2. Question.ts:

```
import { Option } from './option';

export class Question {
   id: number;
   name: string;
   questionTypeId: number;
   options: Option[];
```

```
answered: boolean;

constructor(data: any) {
    data = data || {};
    this.id = data.id;
    this.name = data.name;
    this.questionTypeId = data.questionTypeId;
    this.options = [];
    data.options.forEach(o => {
        this.options.push(new Option(o));
    });
}
```

3. Quiz-config.ts:

```
export class QuizConfig {
    allowBack: boolean;
    allowReview: boolean;
    autoMove: boolean; // if boolean; it will move to next question
automatically when answered.
    duration: number; // indicates the time in which quiz needs to be completed.
0 means unlimited.
    pageSize: number;
    requiredAll: boolean; // indicates if you must answer all the questions
before submitting.
    richText: boolean;
    shuffleQuestions: boolean;
    shuffleOptions: boolean;
    showClock: boolean;
    showPager: boolean;
    theme: string;
    constructor(data: any) {
        data = data | | {};
        this.allowBack = data.allowBack;
        this.allowReview = data.allowReview;
        this.autoMove = data.autoMove;
        this.duration = data.duration;
        this.pageSize = data.pageSize;
        this.requiredAll = data.requiredAll;
        this.richText = data.richText;
        this.shuffleQuestions = data.shuffleQuestions;
        this.shuffleOptions = data.shuffleOptions;
        this.showClock = data.showClock;
```

```
this.showPager = data.showPager;
}
```

4. Quiz.ts:

```
import { QuizConfig } from './quiz-config';
import { Question } from './question';
export class Quiz {
    id: number;
   name: string;
    description: string;
    config: QuizConfig;
    questions: Question[];
    constructor(data: any) {
        if (data) {
            this.id = data.id;
            this.name = data.name;
            this.description = data.description;
            this.config = new QuizConfig(data.config);
            //console.log(`config: ${JSON.stringify(this.config)}`);
            this.questions = [];
            data.questions.forEach(q => {
                this.questions.push(new Question(q));
            });
```

- Service:
 - 1. Quiz.service.spec.ts:

```
import { TestBed } from '@angular/core/testing';
import { QuizService } from './quiz.service';

describe('QuizService', () => {
  let service: QuizService;
```

```
beforeEach(() => {
    TestBed.configureTestingModule({});
    service = TestBed.inject(QuizService);
});

it('should be created', () => {
    expect(service).toBeTruthy();
});
});
```

2. Quiz.service.ts:

```
import { HttpClient } from '@angular/common/http';
import { Injectable } from '@angular/core';
@Injectable({
 providedIn: 'root',
export class QuizService {
  constructor(private http: HttpClient) {}
 get(url: string) {
   return this.http.get(url);
  getAll() {
    return [
        id: 'data/java.json',
        name: 'Java',
        description:
          "Let's Play java quiz that will help you clear the concepts and will
prepare you for interviews. This is a basic level quiz and contains 10
Questions.",
        imageUrl: '../assets/images/java.jpeg',
      },
        id: 'data/javascript.json',
        name: 'JavaScript',
        description:
          "Let's Play javascript quiz that will help you clear the concepts and
will prepare you for interviews. This is a basic level quiz and contains 10
        imageUrl: 'assets/images/JS.png',
```

```
},
        id: 'data/aspnet.json',
        name: 'Asp.Net',
        description:
          "Let's Play Asp.Net quiz that will help you clear the concepts and will
prepare you for interviews. This is a basic level quiz and contains 10
Questions.",
        imageUrl: 'assets/images/ASP.png',
      },
        id: 'data/csharp.json',
        name: 'C Sharp',
        description:
          "Let's Play C# quiz that will help you clear the concepts and will
prepare you for interviews. This is a basic level quiz and contains 10
Questions.",
        imageUrl: 'assets/images/CSHARP.png',
      },
       id: 'data/cloud.json',
       name: 'Cloud Computing',
        description:
          "Let's Play Cloud Computing quiz that will help you clear the concepts
and will prepare you for interviews. This is a basic level quiz and contains 10
Questions.",
        imageUrl: '../assets/images/cloud.jfif',
   ];
```

App.component.html:

```
aria-controls="navbarNav"
   aria-expanded="false"
   aria-label="Toggle navigation"
   <span class="navbar-toggler-icon"></span>
 <div class="collapse navbar-collapse" id="navbarNav">
   class="nav-link btn-outline-primary btn-sm text-light fw-bolder"
         routerLink="/quiz"
         ><h1>Home</h1></a
     </div>
<div class="container">
 <router-outlet></router-outlet>
</div>
<footer class="bg-dark text-center text-lg-start mt-5">
 <!-- Copyright -->
 <div class="text-center p-3 text-light fw-bold">
   © 2021 Copyright:
   <a class="text-light fw-bold" routerLink="/quiz">Online Quiz Application</a>
 </div>
 <!-- Copyright -->
</footer>
```

app.component.spec.ts:

```
import { TestBed } from '@angular/core/testing';
import { AppComponent } from './app.component';

describe('AppComponent', () => {
  beforeEach(async () => {
    await TestBed.configureTestingModule({
        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 'online-test-application'`, () => {
    const fixture = TestBed.createComponent(AppComponent);
    const app = fixture.componentInstance;
    expect(app.title).toEqual('online-test-application');
  });
 it('should render title', () => {
    const fixture = TestBed.createComponent(AppComponent);
    fixture.detectChanges();
    const compiled = fixture.nativeElement;
    expect(compiled.guerySelector('.content
span').textContent).toContain('online-test-application app is running!');
 });
});
```

app.component.ts:

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

@Component({
   selector: 'app-root',
   templateUrl: './app.component.html',
   styleUrls: ['./app.component.css']
})

export class AppComponent {
   title = 'online-test-application';
}
```

app.module.ts:

```
import { NgModule } from '@angular/core';
import { FormsModule } from '@angular/forms';
import { BrowserModule } from '@angular/platform-browser';
import { AppComponent } from './app.component';
import { HttpClientModule } from '@angular/common/http';
import { QuizService } from './services/quiz.service';
import { QuizListComponent } from './components/quiz-list/quiz-list.component';
import { QuizComponent } from './components/quiz/quiz.component';
import { RouterModule, Routes } from '@angular/router';
const routes: Routes = [
 { path: 'quiz/:quizName', component: QuizComponent },
 { path: 'quiz', component: QuizListComponent },
 { path: '', redirectTo: '/quiz', pathMatch: 'full' },
  { path: '**', redirectTo: '/quiz', pathMatch: 'full' },
];
@NgModule({
  declarations: [AppComponent, QuizListComponent, QuizComponent],
 imports: [
   BrowserModule,
   FormsModule,
   HttpClientModule,
   RouterModule.forRoot(routes),
 ],
 providers: [QuizService],
 bootstrap: [AppComponent],
export class AppModule {}
```

data:

1. aspnet.json:

```
"id": 1,
    "name": "Asp.Net Quiz",
    "description": "Asp.Net Quiz (contains webform, mvc, web API, etc.)",
    "questions": [
            "id": 1010,
            "name": "ASP.NET webform separates the HTML output from program logic
using a feature named as",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Exception",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Code-behind",
                    "isAnswer": true
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Code-front",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "None of the above",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
```

```
"id": 1011,
            "name": "The feature in ASP.NET 2.0 that is used to fire a normal
postback to a different page in the application is called",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Theme",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Code-front",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Cross Page Posting",
                    "isAnswer": true
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "None of the above",
                    "isAnswer": false
            1,
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1012,
            "name": "What class does the ASP.NET Web Form class inherit from by
default?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "System.Web.UI.Page",
```

```
"isAnswer": true
        },
            "id": 1057,
            "questionId": 1010,
            "name": "System.Web.UI.Form",
            "isAnswer": false
        },
            "id": 1056,
            "questionId": 1010,
            "name": "System.Web.GUI.Page",
            "isAnswer": false
        },
            "id": 1058,
            "questionId": 1010,
            "name": "System.Web.Form",
            "isAnswer": false
    ],
    "questionType": {
        "id": 1,
        "name": "Multiple Choice",
        "isActive": true
},
    "id": 1013,
    "name": "What does MVC stand for?",
    "questionTypeId": 1,
    "options": [
            "id": 1055,
            "questionId": 1010,
            "name": "Model View Controller",
            "isAnswer": true
        },
            "id": 1057,
            "questionId": 1010,
            "name": "Maximum Virtual Control",
            "isAnswer": false
        },
            "id": 1056,
```

```
"questionId": 1010,
            "name": "Microsoft Visual Core",
            "isAnswer": false
        },
            "id": 1058,
            "questionId": 1010,
            "name": "None of the above",
            "isAnswer": false
    ],
    "questionType": {
        "id": 1,
        "name": "Multiple Choice",
        "isActive": true
},
    "id": 1014,
    "name": "Which of the following does NOT require type casting?",
    "questionTypeId": 1,
    "options": [
            "id": 1055,
            "questionId": 1010,
            "name": "Session",
            "isAnswer": false
        },
            "id": 1057,
            "questionId": 1010,
            "name": "TempData",
            "isAnswer": false
        },
            "id": 1056,
            "questionId": 1010,
            "name": "ViewData",
            "isAnswer": false
        },
            "id": 1058,
            "questionId": 1010,
            "name": "ViewBag",
            "isAnswer": true
```

```
],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1015,
            "name": "Which is the correct order of Page life-cycle in asp.net
webform?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Init, PreRender, Load",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Load, PreRender, Init",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Init, Load, PreRender",
                    "isAnswer": true
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "None of the above",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
            "id": 1016,
```

```
"name": "Which of these data source controls do not implement
caching?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "ObjectDataSource",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "LinqDataSource",
                    "isAnswer": true
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "SqlDataSource",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "XmlDataSource",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1017,
            "name": "Which tag asp:Label control by default renders to?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "div",
                    "isAnswer": false
```

```
"id": 1056,
                    "questionId": 1010,
                    "name": "span",
                    "isAnswer": true
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "body",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "label",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
       },
            "id": 1018,
            "name": "Which method do you use to explicitly kill a user's
session?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Session.Terminate()",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Session.TimeOut()",
                    "isAnswer": false
                    "id": 1056,
                    "questionId": 1010,
```

```
"name": "Session.Abondon()",
                    "isAnswer": true
                    "id": 1058,
                    "questionId": 1010,
                    "name": "Session.Kill()",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1019,
            "name": "Which of the following object is ideal for keeping data
alive for a single request?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "HttpContext",
                    "isAnswer": true
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Session",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Cookies",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "SqlServer",
                    "isAnswer": false
```

```
],
    "questionType": {
        "id": 1,
        "name": "Multiple Choice",
        "isActive": true
    }
}
```

2. cloud.json:

```
"id": 1,
    "name": "Cloud Computing Quiz",
    "description": "Cloud Computing (contains cloud service, fundamentals etc.)",
    "questions": [
            "id": 1010,
            "name": "What is Cloud Computing?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Cloud Computing means providing services like
storage, servers, database, networking, etc",
                    "isAnswer": true
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Cloud Computing means storing data in a database",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Cloud Computing is a tool used to create an
application",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
```

```
"name": "None of the mentioned",
        "isAnswer": false
],
"questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
"id": 1011,
"name": " Which of the following is not a type of cloud server?",
"questionTypeId": 1,
"options": [
        "id": 1055,
        "questionId": 1010,
        "name": "Public Cloud Servers",
        "isAnswer": false
    },
        "id": 1057,
        "questionId": 1010,
        "name": "Private Cloud Servers",
        "isAnswer": false
    },
        "id": 1056,
        "questionId": 1010,
        "name": "Merged Cloud Servers",
        "isAnswer": true
    },
        "id": 1058,
        "questionId": 1010,
        "name": "Dedicated Cloud Servers",
        "isAnswer": false
],
"questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
```

```
"id": 1012,
            "name": " Which of the following are the features of cloud
computing?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Security",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Availability",
                    "isAnswer": false
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Large Network Access",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "All of the mentioned",
                    "isAnswer": true
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1013,
            "name": "Which of the following is a type of cloud computing
service?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
```

```
"name": "Software-as-a-Service (SaaS)",
                    "isAnswer": true
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Service-as-a-Software (SaaS)",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Software-and-a-Server (SaaS)",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "Software-as-a-Server (SaaS)",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
       },
            "id": 1014,
            "name": "Which of the following is the application of cloud
computing?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Adobe",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": " Paypal",
                    "isAnswer": false
```

```
"id": 1056,
                    "questionId": 1010,
                    "name": "Google G Suite",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "All of the above",
                    "isAnswer": true
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
            "id": 1015,
            "name": "Applications and services that run on a distributed network
using virtualized resources is known as _____?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Parallel computing",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Soft computing",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Cloud computing",
                    "isAnswer": true
                    "id": 1058,
                    "questionId": 1010,
```

```
"name": " Distributed computing",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
            "id": 1016,
            "name": "Which of the following is an example of a PaaS cloud
service?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": " Heroku",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Windows Azure",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "AWS Elastic Beanstalk",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "All of the above",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
```

```
},
            "id": 1017,
            "name": "Point out the wrong statement.",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Azure enables .NET Framework applications to run
over the Internet",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Cloud Computing has two distinct sets of models",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Amazon has built a worldwide network of datacenters
to service its search engine",
                    "isAnswer": true
                    "id": 1058,
                    "questionId": 1010,
                    "name": "None of the mentioned",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
            "id": 1018,
            "name": "Which of the following model attempts to categorize a cloud
network based on four dimensional factors?",
            "questionTypeId": 1,
            "options": [
```

```
"id": 1055,
                    "questionId": 1010,
                    "name": "Cloud Cube",
                    "isAnswer": true
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Cloud Square",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Cloud Service",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "All of the mentioned",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1019,
            "name": "Which of the following is the correct statement about cloud
types?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "A deployment model defines the purpose of the cloud
and the nature of how the cloud is located",
                    "isAnswer": true
                    "id": 1056,
                    "questionId": 1010,
```

```
"name": "Cloud Square Model is meant to show is that the
traditional notion of a network boundary being the network's firewall no longer
applies in cloud computing",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Service model defines the purpose of the cloud and
the nature of how the cloud is located",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": " All of the mentioned",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
```

3. cSharp.json:

```
"questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Private Assemblies",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Friend Assemblies",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Public Assemblies",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "Shared Assemblies",
                    "isAnswer": true
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
            "id": 1011,
            "name": "Which of the following .NET components can be used to remove
unused references from the managed heap?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Language Infrastructure",
                    "isAnswer": false
                },
```

```
"id": 1056,
                    "questionId": 1010,
                    "name": "CLR",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Garbage Collector",
                    "isAnswer": true
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "Class Loader",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "CTS",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1012,
            "name": "Which of the following utilities can be used to compile
managed assemblies into processor-specific native code?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "gacutil",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "ngen",
```

```
"isAnswer": true
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "dumpbin",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "ildasm",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
            "id": 1013,
            "name": "Which of the following is NOT an Arithmetic operator in
C#.NET?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "** (Double Star)",
                    "isAnswer": true
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "+ (Plus)",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "/ (Divide)",
                    "isAnswer": false
                },
```

```
"id": 1058,
                    "questionId": 1010,
                    "name": "% (Modulo)",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1014,
            "name": "Which of the following statements is correct about an
interface used in C#.NET?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "If a class implements an interface partially, then
it should be an abstract class.",
                    "isAnswer": true
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "A class cannot implement an interface partially.",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "An interface can contain static methods.",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "An interface can contain static data.",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
```

```
"name": "Multiple Choice",
                "isActive": true
        },
            "id": 1015,
            "name": "What does the term <strong>immutable</strong> means in term
of string objects?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "We can modify characters included in the string",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "We cannot modify characters contained in the
string",
                    "isAnswer": true
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "We cannot perform various operation of comparison,
inserting, appending etc",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "None of the above",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
            "id": 1016,
            "name": "Which of the following is NOT a .NET Exception class?",
```

```
"questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Exception",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "StackMemoryException",
                    "isAnswer": true
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "DivideByZeroException",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "InvalidOperationException",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
            "id": 1017,
            "name": "In C#.NET if we do not catch the exception thrown at runtime
then which of the following will catch it?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Compiler",
                    "isAnswer": false
                },
```

```
"id": 1056,
                    "questionId": 1010,
                    "name": "CLR",
                    "isAnswer": true
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Linker",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "Operating system",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1018,
            "name": "Which of the following statements are correct about
delegates?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Delegates cannot be used to call a static method of
a class.",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Delegates cannot be used to call procedures that
receive variable number of arguments.",
                    "isAnswer": true
                },
                    "id": 1056,
```

```
"questionId": 1010,
                    "name": "If signatures of two methods are same they can be
called through the same delegate object.",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "Delegates cannot be used to call an instance
function. Delegates cannot be used to call an instance subroutine.",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
            "id": 1019,
            "name": "Which of the following does NOT represent Integer?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Char",
                    "isAnswer": true
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Byte",
                    "isAnswer": false
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Short",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "Long",
```

4. java.json:

```
"id": 3,
"name": "Java",
"description": "Java Quiz (contains class, methods etc.)",
"config": {
    "shuffleQuestions": true,
    "showPager": false,
    "allowBack": true,
    "autoMove": true
"questions": [
        "id": 1010,
        "name": "Number of primitive data types in Java are?",
        "questionTypeId": 1,
        "options": [
                "id": 1055,
                "questionId": 1010,
                "name": "6",
                "isAnswer": false
                "id": 1056,
                "questionId": 1010,
                "name": "7",
                "isAnswer": false
            },
                "id": 1057,
                "questionId": 1010,
```

```
"name": "9",
                    "isAnswer": false
                    "id": 1058,
                    "questionId": 1010,
                    "name": "8",
                    "isAnswer": true
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1011,
            "name": "Automatic type conversion is possible in which of the
possible cases?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Byte to int",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Long to int",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "int to long",
                    "isAnswer": true
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "short to int",
                    "isAnswer": false
```

```
],
    "questionType": {
        "id": 1,
        "name": "Multiple Choice",
        "isActive": true
},
    "id": 1012,
    "name": "Select the valid statement.",
    "questionTypeId": 1,
    "options": [
            "id": 1055,
            "questionId": 1010,
            "name": "char[] ch = new char(5)",
            "isAnswer": false
        },
            "id": 1057,
            "questionId": 1010,
            "name": "char[] ch = new char[5]",
            "isAnswer": true
        },
            "id": 1056,
            "questionId": 1010,
            "name": "char[] ch = new char()",
            "isAnswer": false
        },
            "id": 1058,
            "questionId": 1010,
            "name": "char[] ch = new char[]",
            "isAnswer": false
    ],
    "questionType": {
        "id": 1,
        "name": "Multiple Choice",
        "isActive": true
    "id": 1013,
```

```
"name": "Who invented Java Programming?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "James Gosling",
                    "isAnswer": true
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Guido van Rossum",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Dennis Ritchie",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "Bjarne Stroustrup",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1014,
            "name": "Which component is used to compile, debug and execute the
java programs?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "JDK",
                    "isAnswer": true
```

```
"id": 1057,
            "questionId": 1010,
            "name": "JRE",
            "isAnswer": false
        },
            "id": 1056,
            "questionId": 1010,
            "name": "JIT",
            "isAnswer": false
        },
            "id": 1058,
            "questionId": 1010,
            "name": "JVM",
            "isAnswer": false
    ],
    "questionType": {
        "id": 1,
        "name": "Multiple Choice",
        "isActive": true
},
    "id": 1015,
    "name": "Which one of the following is not a Java feature?",
    "questionTypeId": 1,
    "options": [
            "id": 1055,
            "questionId": 1010,
            "name": " Object-oriented",
            "isAnswer": false
            "id": 1057,
            "questionId": 1010,
            "name": "Use of Pointers",
            "isAnswer": true
        },
            "id": 1056,
            "questionId": 1010,
            "name": "Portable",
```

```
"isAnswer": false
    },
        "id": 1058,
        "questionId": 1010,
        "name": "Dynamic and Extensible",
        "isAnswer": false
],
"questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
"id": 1016,
"name": "Which of these cannot be used for a variable name in Java?",
"questionTypeId": 1,
"options": [
        "id": 1055,
        "questionId": 1010,
        "name": "indentifier & keyword",
        "isAnswer": false
        "id": 1056,
        "questionId": 1010,
        "name": "keyword",
        "isAnswer": true
    },
        "id": 1057,
        "questionId": 1010,
        "name": "identifier",
        "isAnswer": false
    },
        "id": 1058,
        "questionId": 1010,
        "name": "none of above",
        "isAnswer": false
],
"questionType": {
```

```
"id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1017,
            "name": "What is not the use of "this" keyword in Java?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Referring to the instance variable when a local
variable has the same name",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Passing itself to the method of the same class",
                    "isAnswer": true
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Passing itself to another method",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "Calling another constructor in constructor
chaining",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
            "id": 1018,
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```
"name": "Which of the following is a type of polymorphism in Java
Programming?",
            "questionTypeId": 1,
            "options": [
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                    "questionId": 1010,
                    "name": "Multiple polymorphism",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "Compile time polymorphism",
                    "isAnswer": true
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Multilevel polymorphism",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "Execution time polymorphism",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1019,
            "name": "What is Truncation in Java?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Floating-point value assigned to an integer type",
                    "isAnswer": true
```

```
"id": 1056,
                "questionId": 1010,
                "name": "Floating-point value assigned to a Floating type",
                "isAnswer": false
            },
                "id": 1057,
                "questionId": 1010,
                "name": "Integer value assigned to floating type",
                "isAnswer": false
            },
                "id": 1058,
                "questionId": 1010,
                "name": "Integer value assigned to floating type",
                "isAnswer": false
        ],
        "questionType": {
            "id": 1,
            "name": "Multiple Choice",
            "isActive": true
]
```

5. javascript.json:

```
"isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "<script>",
                    "isAnswer": true
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "<js>",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "None of the above",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1011,
            "name": "Which built-in method calls a function for each element in
the array?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "while()",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "loop",
                    "isAnswer": false
                },
```

```
"id": 1056,
            "questionId": 1010,
            "name": "forEach",
            "isAnswer": true
        },
            "id": 1058,
            "questionId": 1010,
            "name": "takeUntil",
            "isAnswer": false
    ],
    "questionType": {
        "id": 1,
        "name": "Multiple Choice",
        "isActive": true
},
    "id": 1012,
    "name": "What is the difference between let and var?",
    "questionTypeId": 1,
    "options": [
            "id": 1055,
            "questionId": 1010,
            "name": "let has local scope",
            "isAnswer": true
        },
            "id": 1057,
            "questionId": 1010,
            "name": "Both are same",
            "isAnswer": false
        },
            "id": 1056,
            "questionId": 1010,
            "name": "var is new data type",
            "isAnswer": false
            "id": 1058,
            "questionId": 1010,
            "name": "let consumes more cpu and ram",
            "isAnswer": false
```

```
],
    "questionType": {
        "id": 1,
        "name": "Multiple Choice",
        "isActive": true
},
    "id": 1013,
    "name": "What is TypeScript?",
    "questionTypeId": 1,
    "options": [
            "id": 1055,
            "questionId": 1010,
            "name": "A Language based on Javascript",
            "isAnswer": true
        },
            "id": 1057,
            "questionId": 1010,
            "name": "script that runs on browser",
            "isAnswer": false
        },
            "id": 1056,
            "questionId": 1010,
            "name": "A DataType Collection of Javascript",
            "isAnswer": false
        },
            "id": 1058,
            "questionId": 1010,
            "name": "None of the above",
            "isAnswer": false
    ],
    "questionType": {
        "id": 1,
        "name": "Multiple Choice",
        "isActive": true
    "id": 1014,
```

```
"name": "Which of the following is right syntex for arrow function?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "a -> { return b; }",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": "x <= x + y;",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "x < -x + 5;",
                    "isAnswer": false
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "x => x + 5;",
                    "isAnswer": true
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1015,
            "name": "Which new ES6 syntax helps with formatting output text -
mixing variables with string literals, for example.",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Generator Functions",
                    "isAnswer": false
```

```
"id": 1057,
                    "questionId": 1010,
                    "name": "Arrow Functions",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Template Strings",
                    "isAnswer": true
                },
                    "id": 1058,
                    "questionId": 1010,
                    "name": "Set Data Structure",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
        },
            "id": 1016,
            "name": "Which ES6 feature helps in merging of a number of changed
properties into an existing object?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": "Class syntex",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": "Object.assign()",
                    "isAnswer": true
                    "id": 1057,
                    "questionId": 1010,
```

```
"name": "map data structure",
        "isAnswer": false
        "id": 1058,
        "questionId": 1010,
        "name": "Array.includes(obj);",
        "isAnswer": false
],
"questionType": {
    "id": 1,
    "name": "Multiple Choice",
    "isActive": true
"id": 1017,
"name": "What is the difference between == and === ?",
"questionTypeId": 1,
"options": [
        "id": 1055,
        "questionId": 1010,
        "name": "=== throws syntex error",
        "isAnswer": false
    },
        "id": 1056,
        "questionId": 1010,
        "name": "== checks values only, === checks types as well",
        "isAnswer": true
    },
        "id": 1057,
        "questionId": 1010,
        "name": "=== is reference type check only",
        "isAnswer": false
    },
        "id": 1058,
        "questionId": 1010,
        "name": "Both are same",
        "isAnswer": false
```

```
"questionType": {
                "id": 1,
                "name": "Multiple Choice",
               "isActive": true
           "id": 1018,
            "name": "Which of the following is NOT the method of an Array?",
            "questionTypeId": 1,
            "options": [
                    "id": 1055,
                    "questionId": 1010,
                    "name": ".map()",
                    "isAnswer": false
                },
                    "id": 1057,
                    "questionId": 1010,
                    "name": ".includes()",
                    "isAnswer": false
                },
                    "id": 1056,
                    "questionId": 1010,
                    "name": ".subscribe()",
                    "isAnswer": true
               },
                    "id": 1058,
                    "questionId": 1010,
                    "name": ".flatMap()",
                    "isAnswer": false
            ],
            "questionType": {
                "id": 1,
                "name": "Multiple Choice",
                "isActive": true
       },
            "id": 1019,
            "name": "What will be the output of the following code: ['a', 'b',
'c'].fill(7, 1, 2);?",
```

```
"questionTypeId": 1,
        "options": [
                "id": 1055,
                "questionId": 1010,
                "name": "['a', 7, 'c']",
                "isAnswer": true
            },
                "id": 1056,
                "questionId": 1010,
                "name": "['a', 7, 7, 'b', 'c']",
                "isAnswer": false
            },
                "id": 1057,
                "questionId": 1010,
                "name": "['a', 'b', 'c']",
                "isAnswer": false
                "id": 1058,
                "questionId": 1010,
                "name": "['7', 7, 'c']",
                "isAnswer": false
       ],
        "questionType": {
            "id": 1,
            "name": "Multiple Choice",
            "isActive": true
]
```

• index.html: