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| **Name: Mohammed Mueen Pasha**  **Company: Trivium eSolutions**  **Project 4: Json OnlineTest Application** |

**Quiz Features**

**Shuffle Questions**

Shuffle questions property in config section is used to mention whether the questions should be randomized before showing or not. If true, the questions will be randomized. The default value is false.

**Shuffle Options**

Shuffle options property in config section is used to mention whether the options can be randomized before showing or not. If true, the questions will be randomized. The default value is false. This feature is configurable from the quiz json file.

**Show Pager**

show Pager property in config section indicates whether to show the pager element in quiz or not. If false, the numeric pager will not be shown. In this case, the user can still navigate via. first, prev, next and last button. The default value is true.

**Auto Move**

Auto move property in config section indicates whether to move to next question automatically when the question is answered. If true, you don't need to press Next button to move to next question. The default value is false.

**Load Quiz Dynamically**

In mock test/practice exams, user might want to change the quiz dynamically. To do so, you just need to call loadQuiz method and pass the URL of the new quiz. The attached sample or the demo link illustrates this. (In the sample app, you can load the quiz dynamically via changing the drop-down at top right corner.)

**HTML Questions**

In many cases, you wish to have special characters, images, subscript, superscript, and other HTML elements. Adding HTML markup in question has been provided via angular sanitize. To add image or any HTML formatting in questions, just add the corresponding HTML tags in question.

I will keep on documenting other features as and when they will be available here.

**Auxiliary concepts:**

* Angular
* Node js
* JSON
* HTML
* CSS
* BOOTSTRAP

**About the Project**

The quiz application consists of mainly 3 components/views: Quiz View, Review, Result. For the sake of simplicity, I have kept the views in the same file (The result view will be moved to a separate component soon*).* If you wish to scale this application, you can very well separate these views. Apart from this, quiz.component.ts has been used as a component class for all the views and styles.css has been used to apply CSS style to the application.

**Sample code:**

<!doctype html>

<html lang="en">

<head>

<title>Title</title>

<!-- Required meta tags -->

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<!-- Bootstrap CSS -->

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">

</head>

<body>

<!-- Optional JavaScript -->

<!-- jQuery first, then Popper.js, then Bootstrap JS -->

<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>

<div class="row">

<div class="col-12" style="background-color:Tomato; color:white;">

<h3 style="text-align: center;" >Online Test Application (PHASE 4)</h3><span><h1 style="font-size: 15px; text-align: right;"> Creator ~Mohammed Mueen</h1>

</span>

</div>

<br>

<div class="col-4 text-lg-left">

<br>Select Quiz:

<select [(ngModel)]="quizName" (change)="loadQuiz(quizName)">

<option \*ngFor="let quiz of quizes" [value]="quiz.id">{{quiz.name}}</option>

</select>

</div>

</div>

<div id="quiz">

<h2 class="text-center font-weight-normal " style=" border:2px solid Tomato; color:#125C13">{{quiz.name}}</h2>

<hr />

<div style="background-color:#F4E185;">

<div \*ngIf="mode=='quiz' && quiz">

<div \*ngFor="let question of filteredQuestions;">

<br><div class="badge badge-pill badge-dark">Question {{pager.index + 1}} of {{pager.count}}</div>

<div \*ngIf="config.duration" class="badge badge-info float-right">Time: {{ellapsedTime}} / {{duration}}</div>

<br>

<h3 class="font-weight-normal">{{pager.index + 1}}.

<span [innerHTML]="question.name"></span>

</h3> <br>

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**Sample UI:**

**Graphical user interface, website

Description automatically generated**

Github Link: [Mohammed-Mueen-Pasha/FSD\_Phase-4-Project (github.com)](https://github.com/Mohammed-Mueen-Pasha/FSD_Phase-4-Project)