

# IAT 381 - Assignment 1

## Single Page Application

### Make N Preview

Developed by  
Jordan Hsieh

# App Description

- Make a Quiz
  - Make Questions
  - Make Possible Answers
  - Select the Correct Answer
- Preview the Quiz you just made

LIVE DEMO!

# Technical Decisions

## Framework

- AngularJS
  - A good framework for Model View Controller
  - No wiring between MVC so developers write less code
  - Easier than react

## CSS

- Bootstrap
  - Components already ready to be used and styled
  - Use friendly website to get started
- Angular-Material
  - Material Design
  - Keeping it modern

# Google Material Design Colors

Blue		
500		#2196F3
50		#E3F2FD
100		#BBDEFB
200		#90CAF9
300		#64B5F6
400		#42A5F5
500		#2196F3
600		#1E88E5
700		#1976D2
800		#1565C0
900		#0D47A1
A100		#82B1FF

# Logic

```
1 <div class="jumbotron text-center">
2   <h1>Hello, User!</h1>
3   <p class="lead">
4     <!-- <br> -->
5     Pick your Question to Create!
6   </p>
7 </div>
8
9 <div class="row marketing">
10  <div class="container">
11    <div class="row">
12      <div class="col-sm-12 col-xs-12">
13        <div class="panel panel-primary">
14          <div class="panel-heading">{{question.id}}</div>
15          <div class="panel-body">
16            <form name="quizFormQuestion">
17              <div class="input-group">
18                <input type="text" class="form-control" placeholder="
19                  {{question.question}}" aria-describedby="basic-addon0
20                  " ng-model="question.question">
21                <span class="input-group-addon" id="basic-addon0">?</
22                span>
23              </div>
24            </form>
25          </div>
26        </div>
27      </div>
28    </div>
29  </div>
30
31 <div class="container">
32  <div class="row">
33    <div class="col-sm-12 col-xs-12">
34      <div class="panel panel-primary">
35        <div class="panel-heading">Answers</div>
36        <div class="panel-body">
37          <form name="quizFormAnswers">
38            <div class="input-group">
39              <span class="input-group-addon" id="basic-addon1">
40                <input ng-model="question.correct" value="0" type="
41                radio" name="optradio" id="option1" aria-label="...
42                ">
43              </span>
44              <input ng-model="question.answers[0]" type="text"
45                class="form-control" placeholder="Type your answer A
46                here" aria-describedby="basic-addon2">
47            </div>
48          </form>
49        </div>
50      </div>
51    </div>
52  </div>
53
```

```
1 // question: 'What is your name',
2 // id: 'Question 1',
3 // answers: ['Jordan', 'Jackson', 'Jennifer', 'Joanna'],
4 // correct: '0'
5
6 'use strict';
7
8 var APP = angular.module('myappApp');
9
10 APP.controller('QuizCtrl', function($scope, $route) {
11   //local questions? nope
12
13   var questions = {
14     q1: {
15       question: 'Are we all going to pass this course?',
16       id: 'Question 1',
17       answers: ['Hopefully', 'NOPE!', 'Of Course!', 'Ehhh'],
18       correct: '0'
19     },
20     q2: {
21       question: '',
22       id: 'Question 2',
23       answers: ['', '', '', ''],
24       correct: ''
25     },
26     q3: {
27       question: '',
28       id: 'Question 3',
29       answers: ['', '', '', ''],
30       correct: ''
31     },
32     q4: {
33       question: '',
34       id: 'Question 4',
35       answers: ['', '', '', ''],
36       correct: ''
37     },
38     q5: {
39       question: '',
40       id: 'Question 5',
41       answers: ['', '', '', ''],
42       correct: ''
43     }
44   };
45
46
47
```

Make N Preview

Hello, User!

Pick your Question to Create!

Question 1

Answers

☐ Type your answer A here

☐ Type your answer B here

☐ Type your answer C here

☐ Type your answer D here

SAVE

BACK

Developed by Jordan

# Logic Cont.

The image shows a code editor with three files open: `quiz.h`, `createQuiz.js`, and `quiz.js`. The `quiz.h` file contains HTML templates for buttons and form elements. The `createQuiz.js` file contains the AngularJS controller logic. The `quiz.js` file contains the AngularJS module and service definitions. The Chrome DevTools console shows the execution of the application, including the creation of the quiz questions and the state of the application.

```
65
66 <md-button ng-click="
save(question)" class
="md-primary md-
raised btn-lg btn-
block">
67     Save
68 </md-button>
69
70 <md-button ng-click="
back()" class="md-
warn md-raised btn-
lg btn-block">
71     Back
72 </md-button>
73
74 <!-- <md-button
class="md-warn md-
raised btn-lg btn-
block">
75     <a href="#/create
Quiz"> Back </a>
76 </md-button> -->
77
78 <!-- <pre>form =
{{question | json}}</pre>
79 <pre>master =
{{master | json}}<
/pre> -->
80
81
82 </div>
83 </div>
84
85 </div>
```

```
62
63 $scope.save = function(question) {
64
65     console.log($scope.question);
66
67     if(count === 1){
68
69         APP.questions.push({id:question.id, question:question.question, answers:question.answers, correct:question.correct});
70         count++;
71         questionCount++;
72         $scope.questionCount = questionCount;
73         APP.questionCount = $scope.questionCount;
74         console.log(APP.questionCount);
75     }
76
77     console.log(APP.questions);
78     // console.log(APP.answers);
79
80     $scope.master = angular.copy(question);
81
82     setTimeout(function() {
83         window.location = '#/createQuiz';
84     }, 400);
85
86 };
87
88 $scope.back = function() {
89     // console.log(this);
90     //this is the button element that was clicked, this.item will be the item in scope.buttons
91
92     setTimeout(function() {
93         window.location = '#/createQuiz';
94     }, 400);
95
96 };
97 };
```

Developer Tools - http://localhost:9000/

Console

- Resource interpreted as Script but transferred with MIME type text/plain: "chrome-extension://ighdmehidhipcmcoijgiloacoafimpfk/dist/hint.js". inject.js:25
- Object {params: Object, pathParams: Object, \$\$route: Object, LoadedTemplateUrl: "views/quiz.html", Locals: Object...} quiz.js:48
- Object {question: "Are we all going to pass this course?", id: "Question 1", answers: Array[4], correct: "0"} quiz.js:66
- 1 quiz.js:89
- [Object] quiz.js:92
- Object {question: "Are we all going to pass this course?", id: "Question 1", answers: Array[4], correct: "0"} quiz.js:66
- [Object] quiz.js:92
- APP.questions[0]
- Object {id: "Question 1", question: "Are we all going to pass this course?", answers: Array[4], correct: "0"}

Spaces: 2



# Logic Cont.

```
1 <div class="jumbotron text-center">
2   <h1>Hello, User!</h1>
3   <p class="lead">
4     <!-- <br> -->
5     Let's Preview Our Questions!
6   </p>
7 </div>
8
9 <div class="row marketing">
10   <div class="container">
11     <div class="row">
12       <div class="col-sm-12 col-xs-12">
13
14         <div ng-repeat="question in questions track by $index"
15           class="panel panel-primary">
16           <div class="panel-heading">
17             {{question.id}} : {{question.question}}
18
19           </div>
20
21           <div >
22             <div class="panel-body">
23               <p>
24                 <b>Possible Answers:</b>
25                 <br>
26                 <div ng-repeat="answer in question.answers"
27                   >
28                   <label>
29                     {{answer}}
30                   </label>
31                 <br>
32                 <label>
33                   Correct: {{question.answers[question.
34                     correct]}}
35                 </label>
36               </p>
37             </div>
38           </div>
39
40         </div>
41
42         <md-button ng-click="backToMenu()" class="md-warn md-
43           raised btn-lg btn-block">
44           Back
45         </md-button>
```

```
10
11 var APP = angular.module('myappApp');
12
13 APP.controller('ViewQuizCtrl', function ($scope) {
14
15   $scope.isCollapsed = false;
16   $scope.selectedIndex = 2;
17
18   // APP.questions.push({id:question.id, question:question.question, answers:ques
19   // APP.questions.push({id:'Question 1', question:'What is your name', answers:[
20   // APP.questions.push({id:'Question 2', question:'Where are you from', answers:
21   // APP.questions.push({id:'Question 3', question:'What is your favorite food',
22   // APP.questions.push({id:'Question 4', question:'What is your favorite pokemon
23   // APP.questions.push({id:'Question 5', question:'What phone do you have', answ
24
25   //mark the answers
26
27   if(APP.questionCount > 0)
28   {
29
30     $scope.questions = APP.questions;
31     // console.log($scope);
32     var viewQuestions = {
33       q1: {
34         question: APP.questions[0].question,
35         id: APP.questions[0].id,
36         answers: [APP.questions[0].answers[
37         correct: APP.questions[0].correct
38       }
39       // q2: {
40       //   question: APP.questions[1].quest
41       //   id: APP.questions[1].id,
42       //   answers: [APP.questions[1].answe
43       //   correct: APP.questions[1].correc
44       // },
45       // q3: {
46       //   question: APP.questions[2].quest
47       //   id: APP.questions[2].id,
48       //   answers: [APP.questions[2].answe
49       //   correct: APP.questions[2].correc
50       // },
51       // q4: {
52       //   question: APP.questions[3].quest
53       //   id: APP.questions[3].id,
54       //   answers: [APP.questions[3].answe
55       //   correct: APP.questions[3].correc
56       // },
```

Make N Preview

Hello, User!

Let's Preview Our Questions!

Question 1 : Are we all going to pass this course?

Possible Answers:

Hopefully  
NOPE!  
Of Course!  
Ehhh

Correct: Hopefully

BACK

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# Summary

## What Works

- Routing Module
  - AngularJS provides easy to use framework
- Temporary Data Storage
  - Using JavaScript Array
- Material UI makes application more modern