

Assignment 11 - Chapter 6 - APIs

Due Jan 18 by 11:59pm **Points** 27 **Submitting** a text entry box
Available until Jan 20 at 11:59pm

This assignment was locked Jan 20 at 11:59pm.

Create a new directory called Assignment-11

Create a simple high/low guessing game and the API to support it.

- Modify the random Number app so that it uses the express static middleware and also uses the bodyparser.json middleware.
- Create the following API code in app.js
 - Get Random Number between range
 - /api/v1/random/:min/:max
 - jsonOut:
 - {"result":"YOUR RANDOM NUMBER"}
 - or if error
 - status=404
 - {"result":"msg"}
 - Get Random Number between 0 and Max
 - /api/v1/random/:max
 - jsonOut:
 - {"random":"YOUR RANDOM NUMBER"}
 - or if error
 - status=404
 - {"result":"msg"}
 - Set Game Max in server. The server will let the user play high low and this call sets the maximum range for the game.
 - /api/v1/game
 - method: post
 - json_in:
 - {"max":"number"}
 - jsonOut:
 - if ok
 - {"result": "OK" }
 - if error
 - status=404
 - result="Error"
 - Test Number against number in Server
 - /api/v1/game/:number

- method: get
- jsonOut
 - {"result": "HIGH" or "LOW", or "MATCH"}
 - if bad input
 - status=404
 - result="ERROR"
- Create an index.html to play the game
 - Use very simple html. My html file is at the end of these instructions.
- Create game.js that uses jquery to make calls to the API
- Make sure your package.json has all the required modules
- Run this server on port 3011

Make sure all your code is in git

Submit:

- a clickable link to git
- a clickable link to your server

Video Discussion Assignment and Solution

HTML file

```
<!doctype html>
```

```
<!--
```

Scott Campbell

Assignment 11

CSE 270

Winter 2019

```
-->
```

```
<html lang="en-us">
<head>
<title>Game</title>
<script
src="https://code.jquery.com/jquery-3.3.1.min.js"
integrity="sha256-FgpCb/KJQlLNfOu91ta32o/NMZxltwRo8QtmkMRdAu8="
crossorigin="anonymous"></script>
<script src='game.js'></script>

</head>
<body>
<div>
<h1>Guessing game</h1>
<h2 id='result'></h2>
<form id='game'>
Guess: <input type='text' id='guess'>
</form>
</div>
<div>
<h2>Set guessing game range</h2>
<form id='setMax'>
Max: <input type='text' id='max'>
<br>
<input type='submit'>
</form>
</div>

</body>
</html>
```

Some Rubric (12)

Criteria	Ratings		Pts
Code in git and called Assignment-11	2.0 pts Full Marks	0.0 pts No Marks	2.0 pts
/api/v1/random/:min/:max works	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
/api/v1/random/:max works	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
Set Game Max in server works	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
test Number against number in Server works	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
HTML plays	5.0 pts Full Marks	0.0 pts No Marks	5.0 pts
Total Points: 27.0			