DMIT2008 Assignment 1

Task: Weather App ES6 Update

Due: Midnight on Friday October 5th, 2018

Weight: 20%

Overview

You must update the existing ES5 Weather App to ES6 in all applicable areas. This assessment will test a your ability to apply intermediate JavaScript skills learnt in the previous course as well as new ES6 language features taught over the first four weeks of DMIT2008; essentially, this assignment serves as a primer for the remainder of the course. You will also need to apply basic node.js usage for the compiling of ES6 to ES5 for compatibility.

Expectations

Download and extract the included application zip starter package. Your updated application must demonstrate the following:

- Rename the main.js file to main.es6.js and update all existing ES5 code to ES6 spec (see details in the grading key below)
- Remove any and all third-party JavaScript libraries from your code (i.e. no jQuery or other libraries are to be used in your main.es6.js solution)
- Properly documented code using an acceptable commenting convention (e.g. JSDoc)
- Code must adhere to a widely accepted code convention for code style
- Babel.js (via node.js and npm) is to be used to compile main.es6.js (ES6) to main.js (ES5)
- Compiled ES5 code should be encapsulated in an IIFE (i.e. nothing should be leaked to the global object)
- You are solely responsible for all parts of this assignment (all JS code)
- **Any other requirements as laid out by your instructor in class**

The emphasis in this assignment is on functionality, which essentially means that the aesthetics are of lesser (if any) concern. Get your application to work correctly and demonstrate **best practices** and solid understanding of JavaScript in the process.

Delivery

Zip your project folder and submit it to Moodle by the deadline.

- **Do not include the node_modules/ directory in your zip package**.

Seek help if you need it; l**Late submissions will not be graded.**

Grading Key

Tasks	Grade	Marks	Total
ES6JS (main.es6.js)			
No trace of jQuery or other libraries, only pure ES6		3	
Existing functions are declared using const and implemented as arrow functions		3	
Block scoping is applied to all existing variables		3	16
Template literals are used where appropriate (e.g. variable interpolation)		3	
Fetch/promise API used for AJAX		3	
Destructuring used for displayForecast display vars		1	
Node.js and Babel			
npm used to init the project		1	
Required npm packages are installed for babel compilation as dev dependencies		1	
Required package.json entry[ies] are made for babel settings (use preset-env for babel preset)		1	4 [7]
A build script is added to package.json for running babel, which will compile main.es6.js to main.js		1	
Use babel to automatically wrap your compiled code in an IIFE [***bonus***]		[***3***]	
Code Readability and Efficiency • Efficient and maintainable techniques • Code format • Well documented • Etc. • Utilizes your own written code (i.e. not gathered from online sources such as StackOverflow)		-5	-5

TOTAL MARKS		20

Marking Rubric

Marks	5 Marks Criteria [minus]
5 [0]	Task was completed with the highest of proficiency, adhering to best practices, and followed subject matter guidelines. The task was completed to a professional standard.
4 [-1]	Task was completed well, with some minor mistakes. Well above average work, shows good understanding of the task, and a high degree of competence.
3 [-2]	Task was completed satisfactorily. Some features are missing or incorrectly implemented. Shows a moderate level of understanding in the task with room for improvement.
2 [-3]	Task completion is below average, the task was poorly completed. Shows understanding of the task and the requirements to implement, but implementation was poorly executed.
1 [-4]	Some of the task was completed. Shows a lack of understanding in the subject matter and very poor execution.
0 [-5]	Not completed.

Marks	3 Marks Criteria [minus]
3 [0]	Task was completed well, adhering to best practices, and followed subject matter guidelines.
2 [-1]	Task was completed satisfactorily. Some features are missing or incorrectly implemented. Shows a moderate level of understanding in the task with room for improvement.
1 [-2]	Some of the task was completed. Shows a lack of understanding in the subject matter and very poor execution.
0 [-3]	Shows a little to no degree of competence in completing the task; not completed.

Marks	1 Marks Criteria
1	Task completed satisfactorily
0	Task was not completed