# CPSC 473 - Web Front-End Engineering - Fall 2017

## Homework 6, due November 6

In this assignment, you will set up an ES6 build process similar to the one in Chapter 17 and use it to build an ES6 version of Chapter 10’s FormHandler class.

*Hint*: Don’t forget that rather than re-creating files step-by-step, you can find complete versions of the files from previous projects in [front-end-dev-resources.zip](http://www.bignerdranch.com/downloads/front-end-dev-resources.zip).

Complete the following:

1. Create a new project directory named formhandler/. Run npm init to set up a package.json for the project and install and configure nodemon as in Chapter 15.
2. Create an app/ subdirectory for formhandler/ set up the same way as Figure 15.11 for Chattrbox. Your app/index.html should be the CoffeeRun form from Chapter 9.
3. Add extract.js and index.js from the end of Chapter 15 and verify that when you run npm start you can browse to <http://localhost:3000/> to see the CoffeeRun form.
4. Install the Babel tools and configure .babelrc as in Chapter 17.
5. Install Browserify, Babelify, and Watchify as in Chapter 17.
6. Install jQuery as a Node module as in Chapter 18.
7. Create two JavaScript files in app/scripts/src/, main.js and formhandler.js.
8. Write an ES6 version of the formhandler.js module from Chapter 10. Use the following ES6 features:
   * Classes, constructors, and methods
   * Module import and export syntax
   * let statements
   * Arrow functions
9. Configure Browserify and Watchify to generate ES5 code in app/scripts/dist/ as in Chapter 17.
10. In app/scripts/src/main.js, use ES6 syntax to import the FormHandler class from the formhandler module. Create a new FormHandler object and attach it to the CoffeeRun form you created in Step 2. Add a submit handler to log the data to the console.
11. Modify app/index.html to load /scripts/dist/main.js.
12. Verify that when you submit the form you see the data logged to the DevTools Console.
13. Push the contents of your formhandler/ directory into a new public GitHub repository.

### Grading

Print this sheet, place a checkmark next to each of the following items when you have verified them, and submit it to the professor in class by the deadline:

* Do you have a .eslintrc.yml file in the root of your repository? yes
* Have you modified .eslintrc.yml to allow ES6 syntax? yes
* Have you fixed any issues detected by the linter-eslint plugin? yes
* Have you run the atom-beautify plugin? yes
* Have you fixed any JavaScript issues displayed in the browser’s DevTools Console? yes
* Is there a package.json? yes
* Is there a .babelrc? yes
* Is there an app/scripts/src/formhandler.js module? yes
* Does formhandler.js use ES6 syntax? yes
* Can formhandler.js import jQuery? no
* Is app/scripts/dist/main.js generated correctly? yes
* Is the CoffeeRun form displayed on <http://localhost:3000/>? yes
* When you submit the form, is its data displayed in the browser’s DevTools Console? no
* Have you created a new GitHub repository for this assignment? Fill it in here:  
    
  https://github.com/AryanRouhani/CPSC473--HW-6
* Have you double-checked that your changes won’t accidentally be pushed to the GitHub repository for the previous assignment? yes
* Have you checked in the changes for this assignment and pushed them to GitHub? yes