

Experiment 7

CSCI-230 Web Scripting

Fall 2024

Part I

Inside the **experiments** directory in your repository create a *subdirectory* named **e7**.

Inside the **e7** directory create files named **e7.html**, **e7.css**, **e7.js**, and **data.js**.

In **csci230/index.html** add a link to **csci230/experiments/e7/e7.html**.

Part II

Come up with a dataset of information that can be displayed in a webpage. The dataset should have information for at least 10 different *entities* (people, places, or things). Each of the 10 *entities* should have at least 6 data points that can be displayed to the user.

Inside **data.js** create an object that has a property named "data" whose value is an array of objects. The length of the array should be equal to the number of different *entities* for which you have data. Each object in the array should contain the data points for an entity.

Part III

Inside the **e7** directory, in a separate JavaScript file, create a class to model the entities you chose, and export the class. Name the class appropriately. The class should have at a minimum private fields for the data, a constructor, and get methods for each field.

Part IV

Inside **e7.js**, create an array of instances of your entity class using the data in **data.js**. Afterwards, iterate over the array, and for each instance, dynamically create an HTML element in your **e7.html** page that displays to the user the values of the fields in the instances.

Part V

Add code to **e7.css** so that the data is displayed in a visually appealing manner.