

Project description:

Note: You are now familiar with TypeScript and Bootstrap, as well as with the concepts of objects, classes and inheritance. It is time to put that knowledge to use.

Organization of your code:

- Examine the Content section below and use it as guide to create your index.html page, as well as your **script.ts**-file(s). Submit script.ts, as well as script.js file(s) and all other project files.
- All images should be stored in an **img** folder, which is a subfolder of your main CR project folder.

Travel-o-matic blog

You enjoy traveling to different places, visiting events and eating good food in restaurants. You want to create a TypeScript-based system that presents all of your experiences in a web-page.

What is common to a place, event and restaurant is a location. Since you know about classes, you decided that your base class location should hold information about city, ZIP-code, address (single line like "Kettenbrueckengasse 23"), and a teaser image. That base class has the function display() which is used for displaying the object's properties on the screen as HTML.

A **restaurant** must also display a telephone number, type ("chinese", "indian", "viennese", ...) and a web address. **Restaurant** objects inherit their basic properties (like ZIP-code) from the Location class. Displaying function must of course be updated.

Same goes for the **events** - they have their additional properties like EventDate ("12.10.2019") and EventTime ("17:00") and ticket price (in EUR) that also need to be displayed in addition to the base class' location properties.

For the regular points of this CodeReview, you need to create a structure of TypeScript/JavaScript classes, their respective constructors and their **display()** **function** that will display the relevant data of places, events and restaurants that you have visited.

Regular points:

- (5) Creation of a GitHub project (Repository name: **FSWD80-YourName-CodeReview-06**), successful "push" to the repository and correct information to CodeFactory through the learning management system (<https://lms.codefactory.live/>) with the GitHub link for the cloning procedure.
- (15 points) Create a data model of **location** based on the specification above.

- (20 points) create at least 2 **location** objects by invoking a constructor call and save them in an array (class constructors usage is mandatory, do not use JSON and parsing).
- (10 points) add the display() function to the Location class that can display Location object as an HTML string. Use Bootstrap to solve design and responsiveness issues in an easy manner.
- (10 points) use **looping functionality** to display the object saved in the array on the screen.
- (20 points) create the classes Restaurant and Events with their respective properties. Invoke constructors, and save resulting objects in the same **array** used for location objects. Check the rendering (or how you display it).
- (10 points) create **a display() function** for the classes restaurant and event respectively. display() is capable of displaying relevant information of its class as an HTML. Again, use Bootstrap to solve design and responsiveness.
- (10 points) Assure that rendering of the array is done in the following manner: for **small screens**, you see the teaser of **one object (without the image)** in a row. On **medium screens**, you see **two objects** in a row (**with image**). On **large screens**, you see **four objects** in a row (**with image**).

Bonus Points:

- (10 points) You have decided to add additional **date/time** for every location that you visited. You add that information "Created: 24.10.2019 12:45" to the respective teaser displays.
- (10 points) You want to use the newly added entry to add two additional pages to your system **index-asc.html** and **index-desc.html** Those pages are sorting the array of locations (places, events, restaurant) ascending/descending based on the "Created" date/time property.