Project requirements

CSE115 Fall 2020

ACADEMIC INTEGRITY REMINDER

THIS PROJECT IS INDIVIDUAL WORK. YOU MAY NOT WORK WITH CLASSMATES ON THE PROJECT, OR SEEK ASSISTANCE FROM ANY INDIVIDUALS EXCEPT COURSE STAFF. You may discuss the general concepts underpinning the project with classmates, but you may not directly discuss project code with them. When posting a project-related question on Piazza, post it as a PRIVATE question. If course staff feels it is of general interest they may, at their discretion, change the visibility of the post.

Overview

In this project you get to build a complete web application!

The project has three deliverables, and via these distinct parts it guides you through the process of writing a small web application. The web application produces a visualization in a browser front end of data provided by a back end web server.

This project brings together all the elements of the course we've covered so far, including but not limited to reading and writing files, representing data using data structures, processing data (e.g. filtering, combining), using libraries, and setting up a simple web server.

Successful completion requires that a number of small components be assembled in a way that they can all work together. We do not expect you will be able to complete this without some guidance from the course staff. Do not be shy to take advantage of the weekly lab meetings, recitations meetings, and the Piazza forum to discuss issues you run into.

This page has a high-level description of the project requirements. Linked documents provide details of the three different parts of the project. The parts are roughly split into the application code, the web server code, and the front end code and integration of the various parts into the overall web app. In practice there will be some overlap between the three elements.

The course staff is available to provide guidance to keep you on the right track, to maintain a reasonable scope for the project, and give design advice. Additional guidance may be posted in the course Piazza.

The overall project is worth 60 points.

Part 1: Application code (20 points)

ASSIGNED: October 30 - DUE: November 11 @ 6:00 PM EST

Part 1 Requirements

Submission to AutoLab

Grading via AutoLab autograder, which will be available no earlier than November 6 @ 6:00 EST.

> Part 1 is autograded and can earn up to 12 out of the 20 points for part 1.

Part 2: Web server code (20 points)

ASSIGNED: November 11 - DUE: November 20 @ 6:00 PM EST

Requirements: TBA

Submission to AutoLab

Grading via AutoLab autograder, which will be available no earlier than November 15 @ 6:00 EST.

> Part 1 is autograded and can earn up to another 6 out of the 20 points for part 1.
> Part 2 is autograded and can earn up to 12 out of the 20 points for part 2.

Part 3: Front end visualization code and full WebApp integration (20 points)

ASSIGNED: November 20 - DUE: December 4 @ 6:00 PM EST

Requirements: TBA

Submission to AutoLab.

Grading of Part 3 and the overall integration will be via Zoom demo with TA during the last week of classes. Part 3 and the overall integration can earn up to 20 out of 20 points for part 3.

> Part 1 is autograded and can earn up to another 2 out of the 20 points for part 1.
> Part 2 is autograded and can earn up to another 8 out of the 20 points for part 2.