Term Project: A Full-Stack Web Application

March 2, 2017

Introduction

This project involves creating a complete Web application (just short of deployment). It includes the use of the entire MEAN stack: MongoDB (or alternative), Express, Angular, and Node. The project is meant to be open-ended. Pick something that interests you, imagine an application involving it, and then refine your ideas until you have something you think might be workable.

The Warehouse application example discussed in class provides a skeletal outline of a sample project. We will also be looking at a Music application involving the use of AngularJS. Use either of these as a model if you wish; it is not required that you do so. There are many possible ways of organizing and developing a web application.

You must use Angular in your project. You must also use a database of some kind, though it need not be MongoDB. For example, you may use MySQL, Redis, or some other database management system. You must also set up a server using Express that loads your `index.html` automatically. The example code already does several of these things. Feel free to use as many additional technologies, such as jQuery, Bootstrap, etc. as you wish.

You are also required to use GitHub to host your development effort.

Documentation

Your project is to include documentation as follows:

- A user's guide describing the user interface.

- A description of the technologies used (HTML, CSS, Angular, etc.).

- A description of each source file (html, css, js, etc.), including the purpose of the file and how it fits into the overall project.

- A work log describing in detail any problems that were encountered and what you did to solve them. Be detailed and specific in your descriptions. The log should begin by describing the initial tasks you set for yourselves and any additional tasks that you took on.

Grading

Your grade will be based on:

technical competence and scope	60%
use of the required elements (HTML, CSS, Angular, DB)	10%
documentation	15%
creativity	15%

Submission

The project is due Wednesday, May 3, 2017 at 11:55pm. Submit a zipped folder of your files to Moodle. Submit only one copy of your project. Note that all members of a team will receive the same grade on the project.