Project Forms

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30 January, 2105

Purpose

This is a assessment for the Institute of Environmental Health (IEH Labs). The point of contact is Joseph Mullins. The reason for this project is the assessment of skills post per-interview. The focus is on the HTML Forms methods. Alternatively discussed were topics of ExpressJS, MongoDB, AngularJS and Data Visualization.

Phasing

**Phase One:** Create a form that will collect survey information from the general public. Use responsive-first design techniques and the bootstrap alpha f

Function

* ***Detect Duplicate Submissions:*** When onblur of e-mail address, loop through the database and look for previous suggestions. At least in development mode, indicate whether or not a submission under that e-mail has been used before. Use the e-mail address as at least a unique key.
* ***Validation:*** Front End validate all data even though backend validation will occur as well.

Bootstrap Alpha

* ***Layout:*** Layout using bootstrap alpha. Layout the form to sectionalize the personal information and comments in a fieldset. Allow the quality middle section to remain ungrouped. Legend the fieldsets.
* ***Survey Information:*** For the quality assessment, use the inline methods of bootstrap4a to display radio buttons for values 1 to 10 for easier user experience.

Backend

* Backend can be built on NodeJS and using MongoDB – or a local file system structure. I would like to implement the mongoDB data structuring for the database.
* Two additional controller functions in the index.js; detectDuplicates and submission.
* Post will be use for the submission of the form, however Joseph mentioned some very interesting triggering mechanism used currently to use Get parameters to trigger backend processes. Follow up, use POST anyways.
* After successful operation, fill the database will 15,000 records to text express under a load. Personal test, not related to this project. Faker should be able to mock the data we are creating here very easy.

**Phase Two:** Create a backend using angular that will display the data to administrative role users. Lock this down in the real world but it should be okay for assessment.

* Use Angular’s two-data data binding and filters to filter information by categories; such as, user’s real name, e-mail address, city or likewise information.
* Allow the administrative role to update and delete the records (User is **C**reating, both Front and Back end is **R**eading, Administrative Role will handle **U**pdate and **D**elete – **CRUD** complete).

**Success Goals**

Phase One would successful complete the requirements for this project. I might want to push forward through phase two. No limitations we placed on the project.

**Time Used So Far Estimated** **Actualized**

This planning document: 1 hour 1 hour

Frontend Development 1 hour

Frontend Styling 1 hour

Mongo Database 2 hours

Development MVC 1 hour