Assignment – Gallery

Design and code a webpage as an interactive image presentation layer for your virtual client.

### Assignment Specifications

Your Node/Express/Handlebars based deliverable must provide the following:

* A heading that identifies the theme and/or subject of your webpage
* A collection of radio button elements paired with label elements
* Each pairing of radio button/label represents an image to be selected and presented
* A presentation box for the display of images
* There should be six or more images to be displayed
* Do not link to images via URLs
* A button for submitting image request to the web server
* This webpage must be presented via the following workflow:
* Select image to be displayed by choosing a radio button
* Click the submit button to load and display the selected image
* Display a default image when the webpage is first loaded
* Display a default image when clicking the submit button without selecting any radio button
* The remaining design criteria are to be decided by the webpage designer

Technical Specifications

* Code one JavaScript server program using Node.js for routing, Express.js for framework and Handlebars.js for templating
* The server program is expected to
  + Read the image names from the **imagelist.txt** file using the **linebyline** npm module
  + Populate the radio button/label pairings with image names
* The content of the **imagelist.txt** file may look like the following

|  |
| --- |
| BathroomStuff.jpg  Cereal.jpg  Cones.jpg  ConesAndGrass.jpg  Leafs.jpg  Leafs2.jpg  Matches.jpg  Nuts.jpg  Peppers.jpg  Rocks.jpg |

Where, the name of the file, without its extension, may be used to populate its label

* The server program must not contain hardcoded file names
* The server program must be able to support any number of images specified in your **imagelist.txt** file
* Usage of **fetch** web API is strictly prohibited
* Necessary **npm** modules are: express, express-handlebars, path and linebyline

Assignment Requirements

* Hand in your assignment by date specified on the weekly schedule in media specified in the course overview
* The completed assignment should include at least one **js** file, one **hbs** file, one **package.json** file, one **imagelist.txt** file and necessary image files all compressed into one **zip** file
* Do not include **node\_modules** as part of your assignment submission
* Your assignment is to be submitted via Blackboard
* Ensure your assignment can be successfully tested via **localhost:3000 (127.0.0.1:3000)**

Note: This assignment is worth **15%** of your final grade.

### Sample Assignment Web Server App

* See <https://george-tsang-gallery-3bab484b6795.herokuapp.com/>