# Assignment – Gallery 3

This assignment further extends your Gallery 1 and 2 assignments.

You are required to design, code and implement a new web page as an interactive order and purchase interface for your virtual client.

You are required to modify your web server program for the handling of request messages submitted from all three webpages.

Your Node/Express/Express.Router/Handlebars/MongoDB/mongoose/JSON/Sessions + Cookies based deliverables must provide the following:

### Assignment Specification

### **Creating New MongoDB Collection**

* Sign up and create a new **MongoDB Atlas** account on <http://www.mongodb.com/cloud/atlas>
* Create your own MongoDB database under your **MongoDB Atlas** account
* Set up a collection (table) by populating it with documents (records) that are in the following format:

|  |  |  |  |
| --- | --- | --- | --- |
| **Gallery Collection** | | | |
| **FILENAME** | **DESCRIPTION** | **PRICE** | **STATUS** |
| abcd.jpg | Whatever that is appropriate | 2000 | A |
| efgh.jpg | Whatever that is appropriate | 2500 | A |
| ijkl.jpg | Whatever that is appropriate | 3200 | A |
| mnop.jpg | Whatever that is appropriate | 6700 | A |

### **Creating New Order and Purchase Webpage**

* The order and purchase functionality are to be coded in a separate JavaScript file using Express.Router and imported by the web server program
* A heading that identifies the web page
* Elements of your choice presenting the selected image, its description and its price
* The name and description of the displayed image and its price are to be retrieved from the new Gallery collection
* Two buttons: one button with the caption **BUY** and the other with the caption **CANCEL**
* When clicking the **BUY** button, a message box showing **SOLD** is to be displayed
* When clicking the **CANCEL** button, a message box showing **MAYBE NEXT TIME** is to be displayed
* After clicking the **OK** button on either message box, the control is to return to the Gallery webpage
* When returning to the Gallery webpage after cancelling the purchase, the image that was to be purchased is to be displayed on the Gallery page.
* When returning to the Gallery webpage after purchasing the image, the default image is to be displayed on the Gallery page.
* When one buys an image from the Gallery by clicking the **BUY** button, the status of that image on the database must be changed from “A” (Available) to “S” (Sold)
* The remaining design criteria are to be decided by the web page designer

### **Modifying Existing Gallery Webpage**

* Only the images that are unsold (available) can be displayed for selection
* The image selection is to be presented via a dropdown list
* Click on a shown image, excluding the default image, invokes the download and display of the new Order and Purchase webpage
* All image-related data are now in the new MongoDB collection and no longer retrieved from your **imagelist.txt** file: you are to modify this webpage to utilize the new collection
* All other functionalities on this page should remain unaffected

### **Modify Existing Login Web Page**

* When one first log on to your webpage, be sure to have the status values of all documents initialized to “A” (available)
* All other functionalities on this page should remain unaffected

Technical Specification

* Code one JavaScript server application using Node.js for routing, Express.js for framework and Handlebars.js (including usage of **partials**) for templating
* Usage of **fetch** web API is strictly prohibited
* Necessary **npm** modules are: express, express-handlebars, mongodb and/or mongoose, path, fs and client-sessions

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 two server side **js** file, four or more **hbs** files (including at least one **partial**), one **package.json** file, one **user.json** file, one Vercel or Heroku URL and necessary image files all compressed into one **zip** file
* Do not include your **node\_modules** subfolder as part of your **zip** file
* Single Page Application (SPA) development is prohibited
* Usage of front-end framework such as React, Vue, Angular are prohibited

Note: This assignment is worth 25% of your final grade.