

ITE5315 Assignment 2

Submission Deadline: Friday Nov 3, 2023, @ 11:59pm

Assessment Weight: 5% of your final course Grade

Objective: To explore more on Express Form and Template Engines

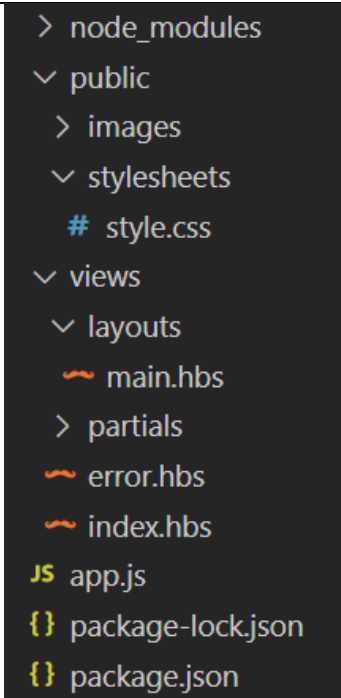
Description: Using the concepts of week3~6 , we are going to develop a new Node/Express app program using template engines. We are going to design a simple app and using handlebars and then will try to utilize Assignment2 in this new app by redesigning it using handlebars template, expression, and helpers.

Note: *You need to use the new dataset (modified version of ASN1)!*

Complete the following steps and take screenshot of the outcome of each step:

Step1: Create new Node/Express app as follow:

- Create new folder named “Asn2-yourname”.
- Change directory to “Asn2-yourname”:
- Open terminal and run `npm init`
- In the terminal run: `npm install express --save`
- In the terminal run: `npm install express-handlebars --save`
- Make sure to have the following project structure:

| | |
|---|--|
| <p>Create a “public” which contains all images and stylesheets</p> <p>Create “views” folder which includes all Handlebars templates. Make sure to add two folders “partials” and “layouts” inside “views”. Also add “index.hbs” and “error.hbs” files.</p> <p>In the “views/layouts”, create a new file: “main.hbs”</p> <p>Create “app.js” in the project root.</p> <p>Make sure to have proper project settings and dependencies in “package.json”</p> |  |
|---|--|

*Note: It's important to distinguish that we've separated our **views** folder into three classifications for **layouts**, **partials**, and **pages**, where **pages** occupy the **root /views** directory. It's important to keep this distinction as our structure affects how we serve up these templates.*

Step2: Using the attach file (codenippet.txt), copy/paste the related code to “style.css”, “main.hbs”, “index.hbs”, “error.hbs” and “app.js”.

Step 3: Run the application and test it using the following routes:

- <http://localhost:3000/>
- <http://localhost:3000/users>
- <http://localhost:3000/notExist>

Step 4: Base on your observation, answer the following questions:

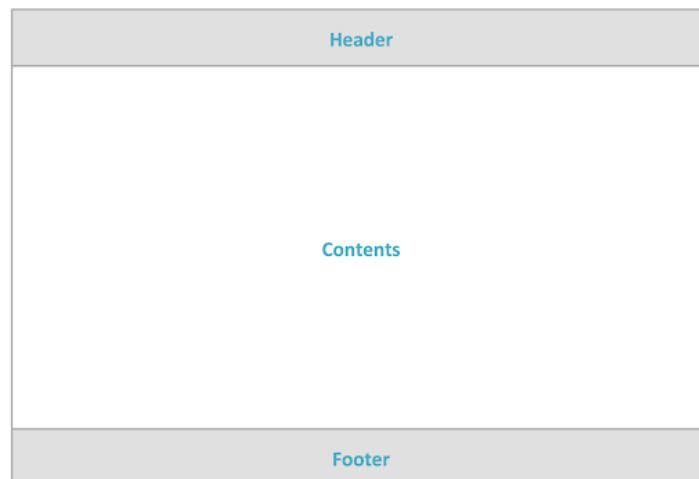
- a) What is the role of “main.hbs”? How does it being used/called in the app?
- b) What is the role of “index.hbs” and “error.hbs”? How do these files being used/called in the app?
- c) In “app.js”, what is the role of the following line? What happen if you commend it out?

```
app.use(express.static(path.join(__dirname, 'public')));
```

- d) Try to add proper comments to each line/block in app.js

Step 5: Modify the layout of the page and add “header”, “content” and “footer” as follow.

- Add your name/std_id to the header
- Add your email address to the footer
- The other dynamic contents/messages should be displayed in the “content” area.
- Use your creativity to add proper css style/format. Add
(*hint: you need to redesign main.hbs and style.css*)



Step 6: Add the Assignment1 code into this template. So the assignment1 form and output should be displayed in the content area of the layout.

- For each of the route in assignment 1 (like /allData, /alldata/invoiceID/{index}, /search/produceLine/, /search/invoiceID/), you need to create a related “page” in “/views” folder. So, when the “app.get” of the related route is called, you gonna use the proper “res.render(‘page’, {data})”. (*hint: use similar ideas like index.hbs*) Moreover, you also should redesign the way that you generate output in Assingment2 by displaying the output using Handlebars *expression/helpers*.

Step 7: Design a new route “/viewData” to display all Sales info in html table output using handlebars helpers/expression.

Step 8: Modify Step 7 (change the endpoint/view name) by removing those invoices which their “rating” is zero (*hint: use “#if” helper* 😊)

Step 9: Design a custom helper for changing the records with “rating” “0” to “zero”. Apply this on Step7&8 in order to display all records but highlight those rows that their “rating” is “0”!

Step 10: Any idea how to do any of the followings:

- A. You want to change table row color for those records which “rating” is “0”. Any way that you can implement it using Template Engine?
- B. In this app, do you find any use cause for utilizing “Partial” Templates? Explain your answer
- Bonus: implement your idea of A and B!

Step 11: Deploy the app to Vercel.

Assignment Submission:

- Add the following declaration at the top of .js files

```
/******  
***  
* ITE5315 – Assignment 2  
* I declare that this assignment is my own work in accordance with Humber Academic Policy.  
* No part of this assignment has been copied manually or electronically from any other source  
* (including web sites) or distributed to other students.  
*  
* Name: _____ Student ID: _____ Date: _____  
*  
*  
*****  
**/
```
- Compress (.zip) the files in your Visual Studio working directory (this is the folder that you opened in Visual Studio to create your client side code).

Important Note:

- Submitted assignments must run locally, ie: start up errors causing the assignment/app to fail on startup will result in a **grade of zero (0)** for the assignment.

- **LATE SUBMISSIONS for assignments.** There is a deduction of 10% for Late assignment submissions, and after three days it will grade of zero (0).
- Assignments should be submitted along with a video-recording which contains a detailed walkthrough of solution. Without recording, the assignment can get the maximum of 1/3 of the total.
 - In case you are running out of time, you can submit your project on time and submit the video-recording within 24 hours
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