

## ITE5315 Assignment 2

**Submission Deadline:** Tuesday March 5, 2024, @ 11:59pm

**Assessment Weight:** 5% of your final course Grade

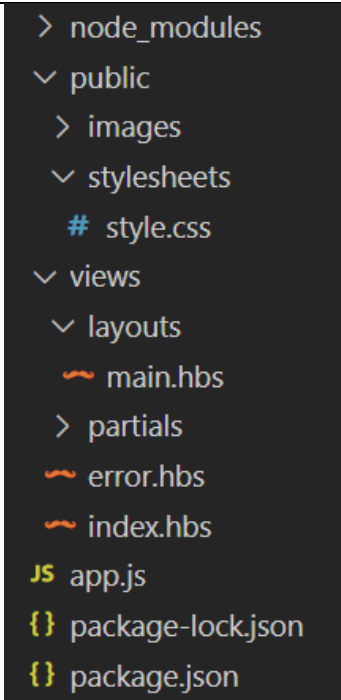
**Objective:** To explore more on Express Form and Template Engines

**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.

**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:

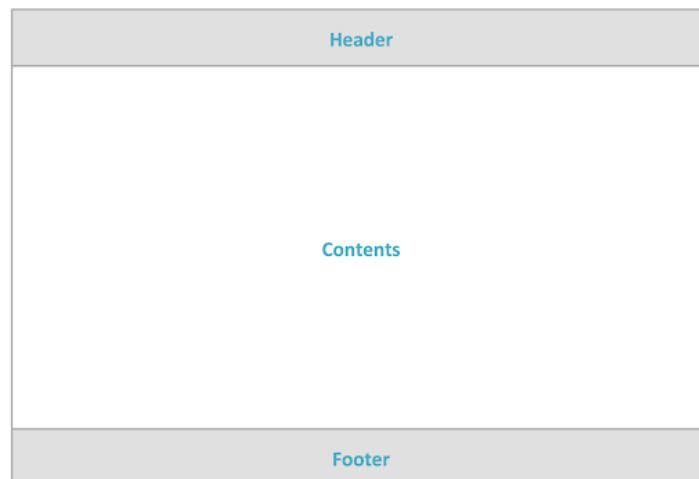
- a) What is the role of “main.hbs”? How does it being used/called in the app?
- b) What is the role of “index.hbs” and “error.hbs”? How do these files being used/called in the app?
- c) In “app.js”, what is the role of the following line? What happen if you commend it out?

```
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 /data, /data/product, /search/prdID, ...), 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 “/allData” to display all books info in html table output using handlebars helpers/expression.

**Step 8:** Modify Step 7 by removing/notShowing those products which their ""reviews" is zero  
(hint: use ""#if"" helper 😊)

**Step 9:** Design a custom helper for changing "reviews": "0" to "N/A". Apply this on Step7&8 in order to display all books data but highlight those rows that their "reviews" is zero!

**Step 10:** Use your creativity to implement the followings:

- You want to change table row color for those records which "reviews" is zero. Try to implement it using Template Engine.
- In this app, do you find any use cause for utilizing "Partial" Templates?

**Step 11:** Deploy the app to Cyclic.

### 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  $\frac{1}{3}$  of the total.