

SRT621 – Winter 2022

Lab #8

Worth: 4% of final grade [4 marks]

Assignment Due: Refer to the deadline on learn.Senecacollege.ca

## Submission Instructions:

Submit your code by sharing your GitHub repository link on the blackboard in text file.

Codes/files submitted to blackboard are not going to be corrected.

**Remove** node\_modules folder from your repositories. You can do so by Adding node\_modules/ or node\_modules to the .gitignore by following the below link:

<https://stackoverflow.com/questions/29820791/git-ignore-node-modules-folder-everywhere>



Your web server must start working by running a “node index.js” command. If it does not your project **won't be graded at all** (zero marks given) as it will be considered non-working.

### Instructions:

In this lab you are going to (partially) rebuild what you created for lab1 with a few differences and additional features. Unlike week 1,, this website is going to be built by using node.js and will have a web server to serve the files.

You are allowed to use any CSS and JavaScript to make the website look better but that is not a requirement.

Your project must have a .js file which fires the webserver and listens to requests on port 3000.

Please carefully read the descriptions below and note the grading details.

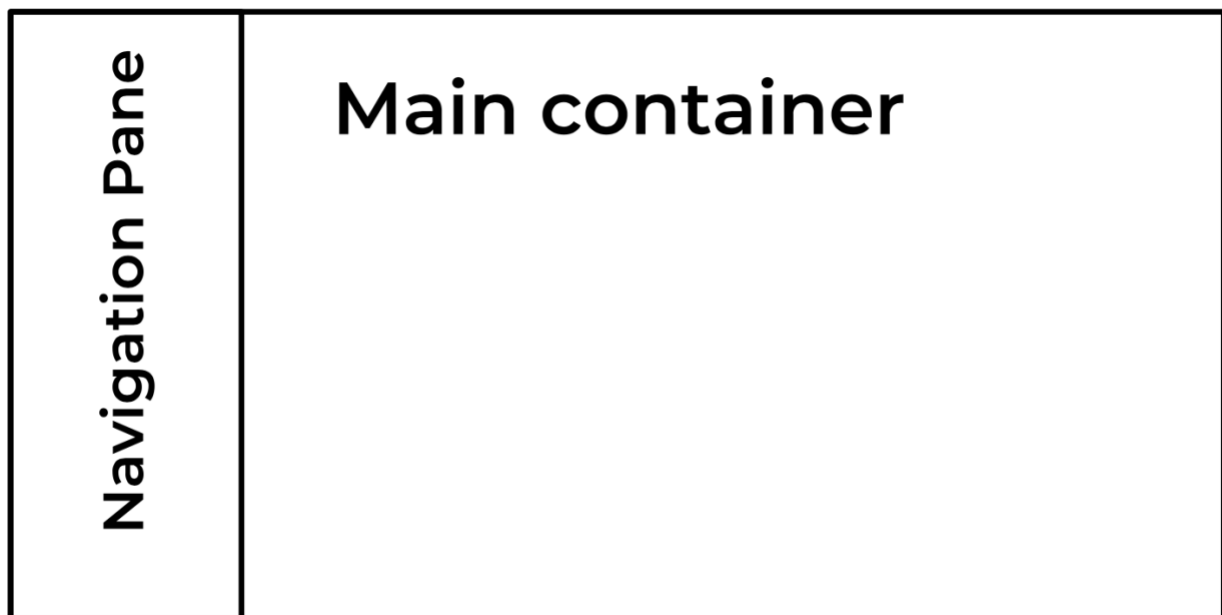
### General Description

you will be creating a small static website which simulates a small library “**Mobasery library**” in *Bushehr*, a small city in Middle East. This website has the following pages:

- 1- Homepage
- 2- Books list page
- 3- Books details pages

### Pages design

There is a single design for all pages of the website as shown in the following figure.



Navigation pane never changes across the entire website. However, based on what the user chooses the main container’s contents updates.

Navigation pane contains two links:

- 1- Home Page
- 2- Books

Upon clicking on each of these links, the user is navigated to a new page.

### Homepage

Homepage is the first page a user sees upon opening the website. Main container on the homepage only contains a welcome note and asks the visitors to click on the links on the navigation pane.

### Books page

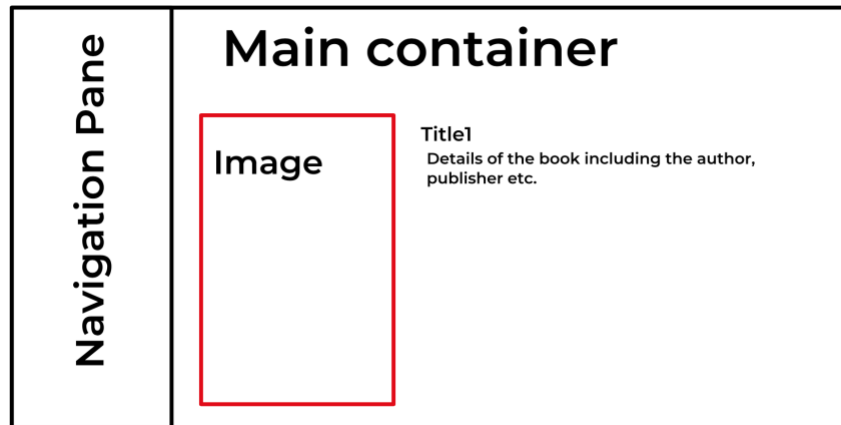
When the user clicks on the Books link, the main container updates and shows a list of 3 books that the library has. The design is as follows.



Upon clicking on either **the Image or the title** of a book, the user is taken to a new page which shows more details about the book.

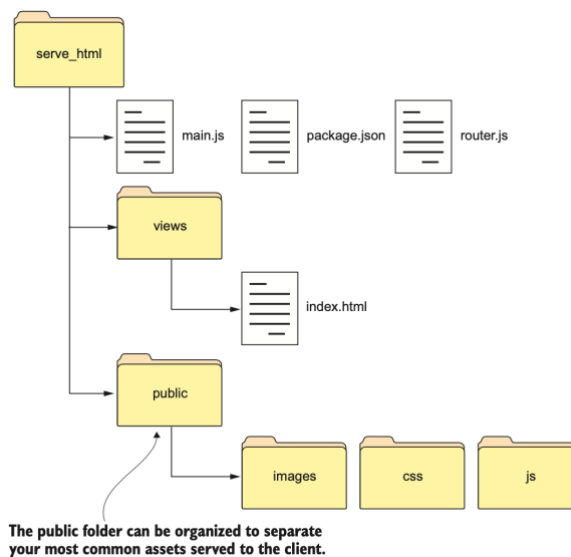
### Books details page

Each book details page looks like the following.



## Web Application

- 1- As stated before, you will also create a web server that runs on port 3000
- 2- This web server has a routing system which serves the pages and all the static files (HTML, CSS, JS, Images)
- 3- Files must be in their responsive folder as the following image.



- 4- Please note that you do not necessarily have to put your routing system in a separate file (**router.js**), but you can if you want.

- 5- The website must have an error page which tells the user if the page they were looking for was not found. For example if the user tries to go to navigate to <http://localhost:3000/info>, since this page does not exist, they will get the error.

#### Grading:

feature	Marks
Website has a routing system which works for the following URLs: <ul style="list-style-type: none"><li>– <a href="http://localhost:3000/home.html">http://localhost:3000/home.html</a></li><li>– <a href="http://localhost:3000/books.html">http://localhost:3000/books.html</a></li><li>– <a href="http://localhost:3000/book1.html">http://localhost:3000/book1.html</a></li><li>– <a href="http://localhost:3000/book2.html">http://localhost:3000/book2.html</a></li><li>– <a href="http://localhost:3000/book3.html">http://localhost:3000/book3.html</a></li></ul>	1.5 ----- 0.5 0.25 0.25 0.25 0.25
Error page	0.5
Images are properly loaded and shown	0.5
Links between the pages	0.5
Pages design <ul style="list-style-type: none"><li>– Navigation + main container</li><li>– Books page</li><li>– Books details page</li></ul>	1 ----- 0.5 0.25 0.25
TOTAL	4



**Please note** that your web server must start working upon running a “node index.js” command. If it does not your project ***won’t be graded at all*** as it will be marked as non-working.