

## COSI 152A – Web Application Development

# Creative Project Assignment 4

### Objectives:

- Building web server
- Handling requests and responses
- Routing
- Serving external files and assets

### Task:

Use your CPA3 assignment as the front end, and build a server to respond according to the requesting URL.

### Requirements:

- Your Node.js project name should be Brandeis\_S&AA
- The project should be initialized with a short description of your project, your FirstName<space>LastName as author, and index.js as the main application file.
- Your project directory structure should follow the structure shown at the end of this document and all internal and external files and assets should be placed in their correct folders.
- Your server should listen to incoming requests on port 8080.
- Your server should be able to respond to different requests differently. For example, if a user visit your application by typing `http://localhost:8080/contact.html`, the response should be a contact HTML page and should be different from response to `http://localhost:8080/index.html` which is the home page.
- Your server should be able to respond differently to clicks on different navigation options. For example, clicking on Events should take the user to Events page and clicking on Jobs should take users to the Jobs page.

### Front-end:

- Use your CPA3 as front-end interface.
- The Home page is **index.html** and you already have the content for it.
- Make several copies of index.html and rename each copy with options available in your homepage navigation bar (e.g. jobs.html).
- Keep the same header, navigation bar, main section and footer and only change the content of the main section. Add simple but distinct contents for all other HTML views (**about.html**, **jobs.html**, **events.html**, **contact.html**).
- Link all the views through navigation bar's <a> tag to be able to navigate to different views if clicked.

## Back-end:

- Create an instance of http server in **index.js** as the core application file.
- Register and handle the response routes in a separate file (module) called **router.js** and require it inside index.js
- Access and read external files in separate module called **utils.js** and require it within index.js
- Store different response content-type values in a separate module called **contentType.js** and require it within any file you need it.

## Assignment will be graded based on:

- Internal Correctness: The assignment should meet all the requirements.

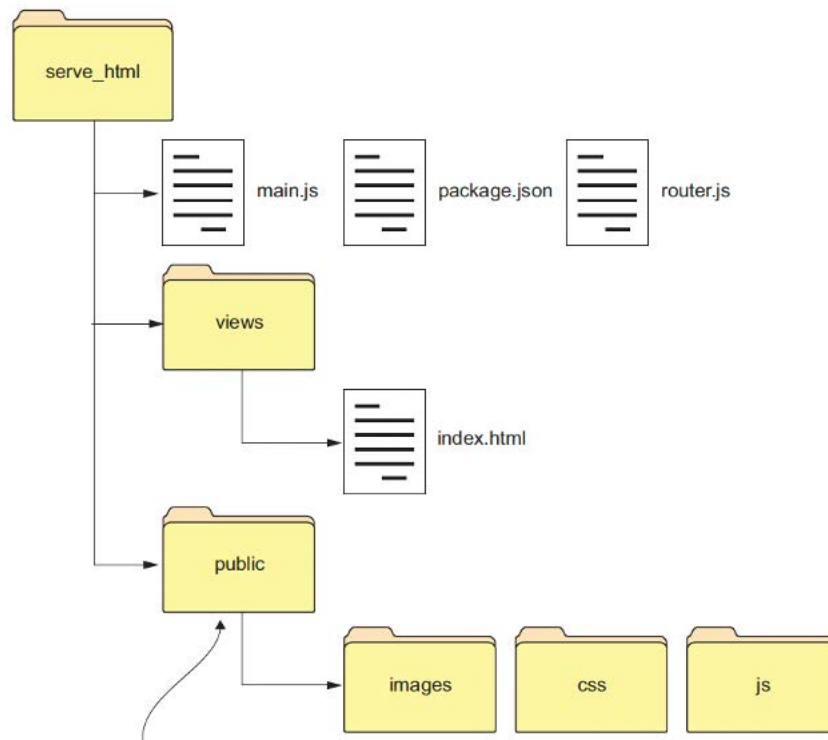
## Assignment submission guideline:

1. Your project name is Brandeis\_S&AA
2. Submit it via Latte in a zip folder named yourFirstname\_yourLastname\_CPA4.zip

## Submission deadline:

Please make sure to submit your assignment before 10/10/2023 11:59 PM

### Directory structure sample



Note: this is a sample. Project name, number of files and folders and their names vary according the requirement.