Tutorial 4: Front-End Frameworks II [Individual Deliverable]

Learning Outcomes:

- Continue to work with the Front-End framework/library of your choice (i.e., the one you have decided to use for your project).
- Understand how routing and calls are made in the Front-End framework/library you have chosen.
- Work individually to create a simple interactive site.

Instructions:

- Create a login page with just two fields: Email and password
  - Hit this API on login submit with the provided credentials:

```
POST - https://express-t4.onrender.com/api/login
body data:
{
    "username" : "testemail@dal.ca",
    "password" : "Test@123"
}
```

Email and password should be accepted from frontend form and sent as a POST request body data.

- On successful login, user should be redirected to profile listing page and should display a list of users fetched from this API:

```
GET - https://express-t4.onrender.com/api/users
```

Users should either be displayed as a list or grid items. Display the images from the API as well.

- Clicking on any user (item/card) should open a profile detail page. The API for this is:

```
GET - https://express-t4.onrender.com/api/users/:id
```

The parameter expected is the user id passed as id

- Display the user profile details from the API on the profile detail page.
- Implement an input search box on the profile listing page which would filter out users based on First Name or Last Name.

Submission Guidelines

Your tutorial must be submitted through Brightspace (i.e., README file), GIT and be remotely accessible.

To submit your work to Brightspace:

- Create a README.txt file, follow the guidelines specified in the README template provided through Brightspace
  - Rename your README file to match naming conventions specified in the Course Syllabus (**FName_LName_README.txt**).
  - **Include** the link to your repository and the deployed application.

  Note: Your README file should include your name, GIT repository link, deployment link, and any code references. Failure to submit a README file and/or not include a link to your deployed application will result in a grade of 0.

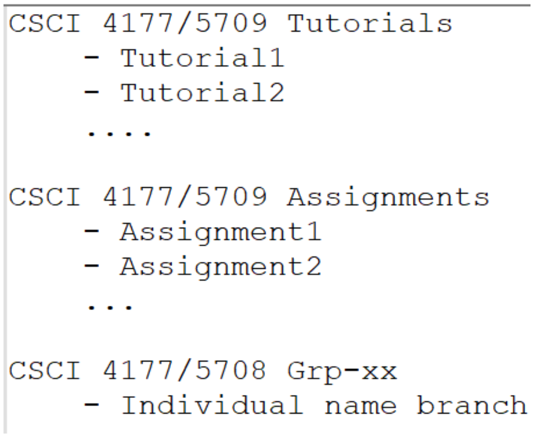
- Ensure you submit your work by the **due date specified on Brightspace.**

To submit your work to FCS GitLab:

- Push your code to a new git repository and deploy the application to Netlify or any other deployment platform of your choice.

  Note: *Make sure that the deployment link you include in your README file matches the deployment link for this tutorial. Your GIT repository must be individual and private and be accessible to the Instructor and Teaching Assistants.*

- Follow the folder structure requirement shown on **Figure 1.**
- **Ensure,** your repository includes a **README.txt file**, follow the guidelines specified in the README template provided through Brightspace.



```
CSCI 4177/5709 Tutorials
    - Tutorial1
    - Tutorial2
    ....

CSCI 4177/5709 Assignments
    - Assignment1
    - Assignment2
    ...

CSCI 4177/5708 Grp-xx
    - Individual name branch
```

Figure 1. *GitLab Folder Structure Example.*

Marking Rubric:

As this tutorial is a programming tutorial, the following grading criteria will be used for marking your tutorial:

- Creating a tutorial4 repository **[0.5 points]**
  - **Ensure** your repo is set to **private**
- Adding the Course Instructor and Teaching Assistants as maintainers **[0.5 points]**

  Note: *See Tutorial 2 handout for Instructor and Teaching Assistants' GitHub and FCS GitLab account information.*
- App implements a Front-End Framework **[2 points]**
- App implements API for Log-in correctly **[1 point]**
- App implements API for listing users correctly **[1 point]**
- App filters users based on First Name and Last Name from the search box **[2 points]**
- User is redirected to a different page/component when a user item/card is clicked, showing the details of the user **[2 points]**

- Tutorial is remotely accessible **[1 point]**

- Ensure a link to your application and GitLab repo is included in your **README** file.

  Note: *Please note that if Gitlab link or deployment link is missing, you will receive a negative mark of -100%. Additionally, if maintainer access for any TA or Professor is missing, you will receive a negative mark of -50%. Further, it may be possible for you to obtain partial credit for requirements that were implemented but are not fully functional.*