

Individual Assignment - II
COMP 3133 – Full Stack Development II
Total Points (16%)

Submission Deadline: Sunday, 09th April 2022, 23:59 (Week13)

No extension or last submission will be allowed. Late submission will be awarded ZERO points

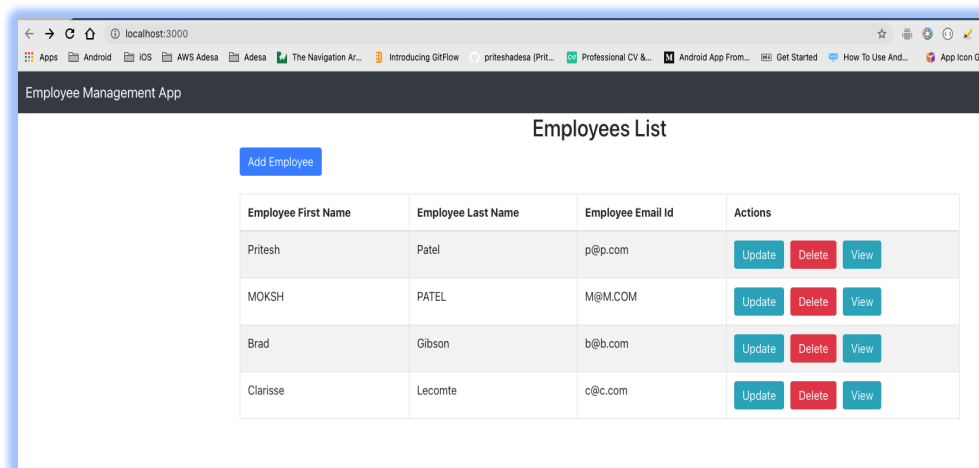
As a Jr. software engineer you have given task to create frontend application using Angular. Do some research to fetch data using GraphQL in Angular Project. You can utilize your knowledge gained while learning COMP 3133 course at George Brown College. You will maintain git repository name **studentId_comp3133_assig2** and if choose to make it private repo then add me as a collaborator (username is **pritamworld**)

You will be evaluated based on your source code organization skills along with how you make use of various feature available on angular like component, data binding, service, pipes, routing, or security.

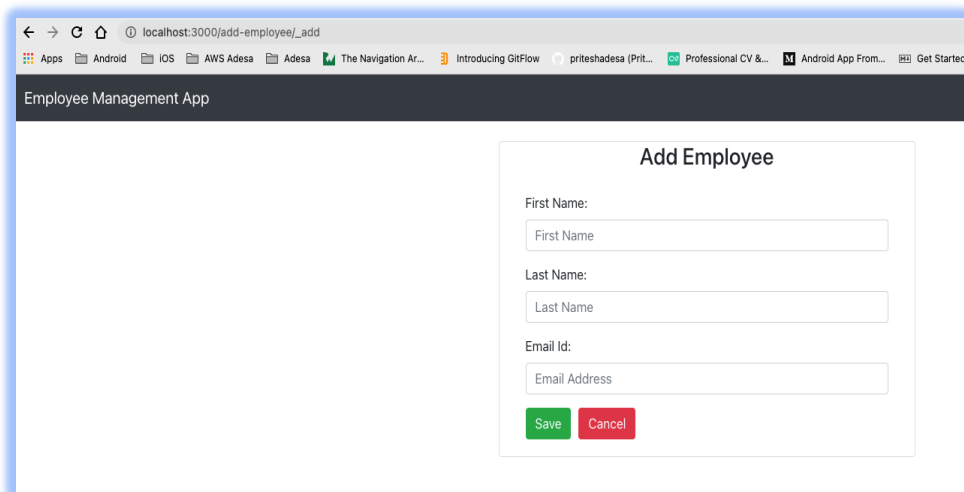
As a refer use assignment – I as a backend to create frontend for assignment – II. At end you will deploy your backend and frontend to Heroku/Vercel/Cyclic or hosting/cloud of your choice. Update backend whenever required to accommodate the requirement of frontend.

Do following mention operation:

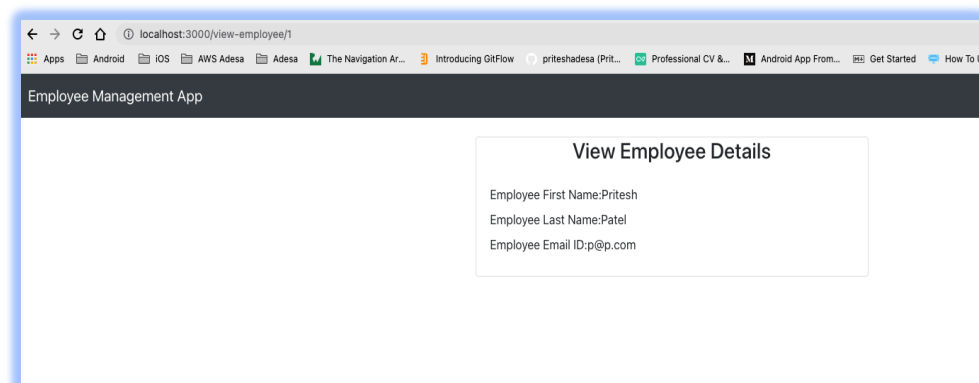
- 1)** Create angular project name **studentId_comp3133_assig2** and git repository to maintain code your codebase on GitHub and frequent commit/push the code with appropriate commit message.
- 2)** Make change to backend (assignment-1) if required to achieve all requirement of assignment – 2.
- 3)** Implement appropriate Routes/Navigation/Menu techniques to load pages.
- 4)** Create Login and Signup screens (Make design of your choice)
- 5)** Maintain session using html local storage or technology of your choice.
- 6)** After successful login open List of employee screen. **(Sample Design below)**



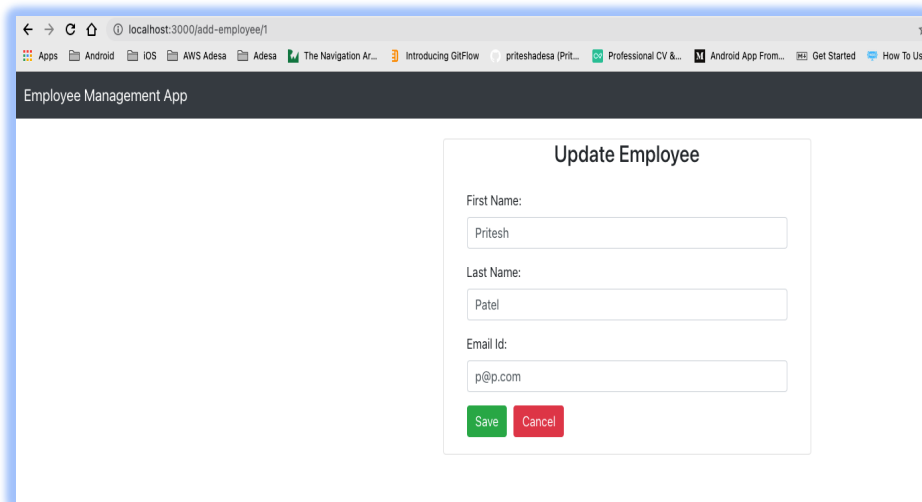
7) On click of “Add Employee” add new employee by calling API (**Sample Design below**)



8) View Employee details when you click on View button (**Sample Design below**)



9) Update employee information when you click Update button (**Sample Design below**)



- 10) Delete employee record when you press delete button.
- 11) Logout from application and redirect to login page.

No extension or last submission will be allowed. Late submission will be awarded ZERO points

Note:

- *All screens design is for reference only. Think of your own UI design.*
- *Please do some research to look your work more professional and acceptable according to industry standards.*
- *Make use of Component, Services, pipes, Routers, Modules, Apollo GraphQL, etc. to accomplish the task.*

Submission

- A)** Create the ZIP file having all your source code. Remove node_modules **folder before zip**
- B)** Provide 1 test **userid** and **password** to validate your system in comment section.
- C)** Put the screenshots of all UI and response along with mongodb screenshots.
- D)** Upload the ZIP file having name **studentId_comp3133_assig2** on black board on or before deadline.
- E)** Provide GitHub and Hosting URL for verification.

No extension or last submission will be allowed. Late submission will be awarded ZERO points

Evaluation Rubric

- **Part-I:**

- 05% - Deploy your all Backend APIs to **Heroku/Vercel/Cyclic** app otherwise **BIG ZERO**
- 05% - Deploy your frontend to **Heroku/Vercel/Cyclic** app otherwise **BIG ZERO**
- Correct **GitHub** repository submission and **naming** convention 05%. No GitHub repo and no correct implementation of git then **BIG ZERO**.

- **Part-II:**

- 85% - Each Correct screen with professional design and for any error or half/wrong implementation **BIG ZERO**
- Display error messages for each validation.

| Sr. No. | Component | Points |
|---------|--|--------|
| 1 | Deploy backend to Heroku/Vercel/Cyclic or OTHER | 05 |
| 2 | Deploy frontend to Heroku/Vercel/Cyclic or OTHER | 05 |
| 3 | GitHub repository with valid commits and readme file. Screenshots submission for validation on BB | 05 |
| 4 | Working Signup component, Login component and Logout | 15 |
| 5 | List all Employee component with good design and theme | 10 |
| 6 | Add New Employee screen with good design and theme and with all validation messages | 15 |
| 7 | View and Update Employee component with good design and theme and with all validation messages | 15 |
| 8 | Delete Employee | 10 |
| 9 | Accepted UI/UX using material design OR bootstrap, etc. | 10 |
| 10 | Make use of Service, Pipes and Routing | 10 |

Communication

Please contact on pritesh.patel2@georgebrown.ca or SLACK channel for any question or query.

Reference

- <https://www.telerik.com/blogs/graphql-angular-how-to-make-a-graphql-query>
 - <https://apollo-angular.com/docs/recipes/simple-example/>
 - <https://www.techiediaries.com/graphql-tutorial/>
 - <https://www.howtographql.com/angular-apollo/0-introduction/>
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- <https://graphql.org/code/#javascript>
 - <https://www.howtographql.com/>
 - <https://www.toptal.com/api-development/graphql-vs-rest-tutorial>
 - <https://www.guru99.com/graphql-tutorial.html>