

INDEX

- **1. GENERAL INSTRUCTIONS**
- 2. ASSIGNMENT EXPECTATIONS
- 3. PROBLEM STATEMENT
- **4. PREFERRED TECHNOLOGY**
- **5. EXPECTED FRONT END UX DESIGN**
- 6. FAQ

JAN 2022 Page **1** of **9**



1. GENERAL INSTRUCTIONS

- You can seek help from the Internet or anyone for learning and reference purpose.
- Whatever the reason may be, as a company we will never approve copying the source code from internet or any other source.
- At any time if you need any help, please do not hesitate to contact.
- Use GitHub and share the repository URL after completion.
- Need to send work progress status every day to the email in which you received this assignment.

o For example:

subject: [Assignment update-day-1][YOUR NAME]

Hello Shan,

I have completed front end designing and just started with database schema design.

2. ASSIGNMENT EXPECTATIONS

- Should solved all requirements with regards to the problem statement
- Should able to show a demo of the working solution locally by sharing a screen (discussion will be scheduled after assignment submission).
- Should be able to articulate their code logic and design clearly.
- Should know every bit of their source code.
- Should be able to debug the code by keeping breakpoints.
- Should be able to demonstrate source code versioning history in Github.

JAN 2022 Page **2** of **9**



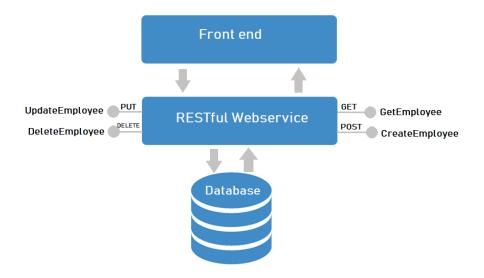
3. PROBLEM STATEMENT

Create single page web application (say employee management application) is to do following CRUD operations

- Create new employee information,
- Get existing employee information for the given employee id,
- Update a particular employee for the given employee id and
- Delete a particular employee for the given employee id.

All the data should be stored in the database, and it will be accessed by RESTful web service which in turn consumed by front end application. Please refer attached screen shots for the expected front end UX design. We know this is not the best design, so we are open to new intuitive UX design if you are interested to do so but keep in mind this should be your last focus for this assignment as we are more interested to see your skills in other areas

SYSTEM REQUIREMENTS OVERVIEW



JAN 2022 Page **3** of **9**



4. PREFERRED TECHNOLOGY

FRONT END:



React.js (Latest stable version)

RESTFUL WEB SERVICE:



DATABASE



IDE:



Microsoft Visual studio code (not Microsoft Visual Studio)

SOURCE CODE REPOSITORY:

• GitHub Github

MUST READ BEFORE ASSIGNMENT:

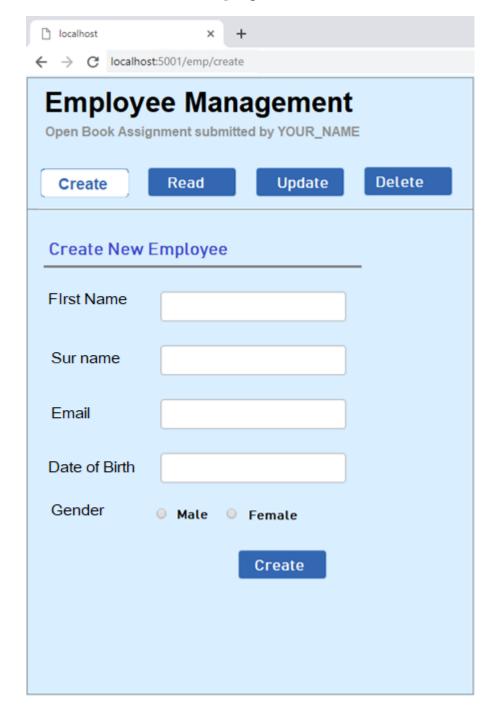
- Use Javascript ES6. Refer http://es6-features.org/
- React.js https://betterprogramming.pub/21-best-practices-for-a-clean-react-project-df788a682fb
- Follow RESTful API Designing guidelines https://hackernoon.com/restful-api-designing-guidelines-the-best-practices-60e1d954e7c9
- Use Axios to consume web service
 Reference- https://blog.logrocket.com/how-to-make-http-requests-like-a-pro-with-axios/
- Use Async programming https://scotch.io/tutorials/asynchronous-javascript-using-async-await

JAN 2022 Page **4** of **9**



5.EXPECTED FRONTEND UX DESIGN

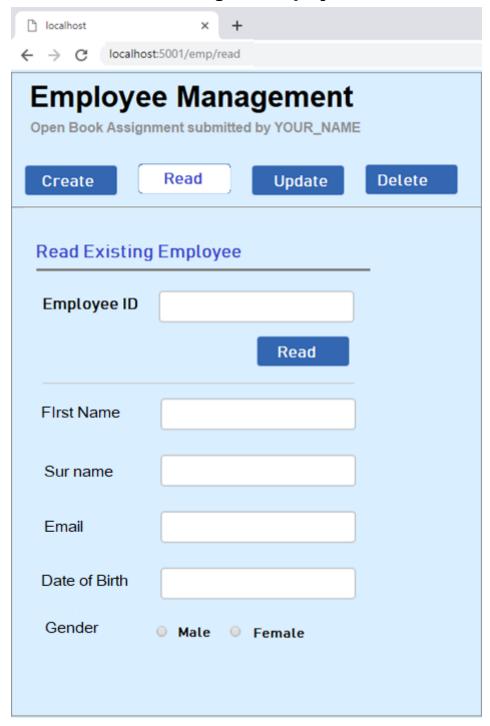
Create new employee information



JAN 2022 Page **5** of **9**



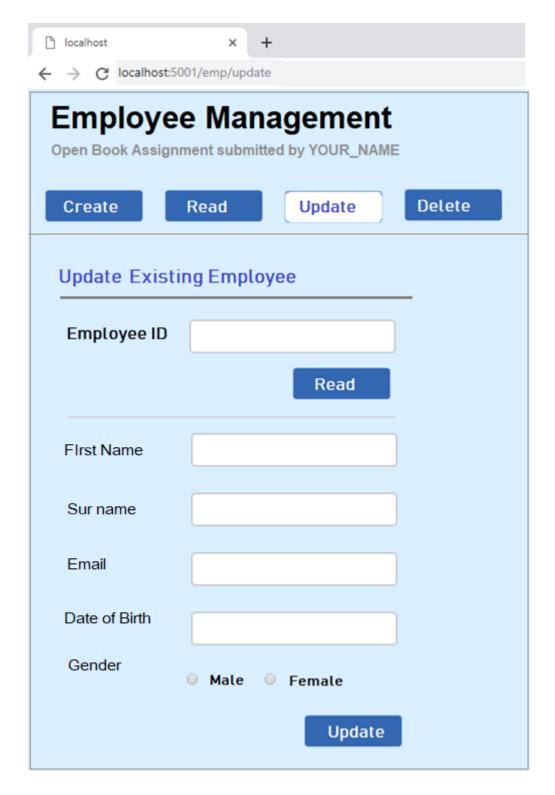
Get existing employee information for the given employee id



JAN 2022 Page **6** of **9**



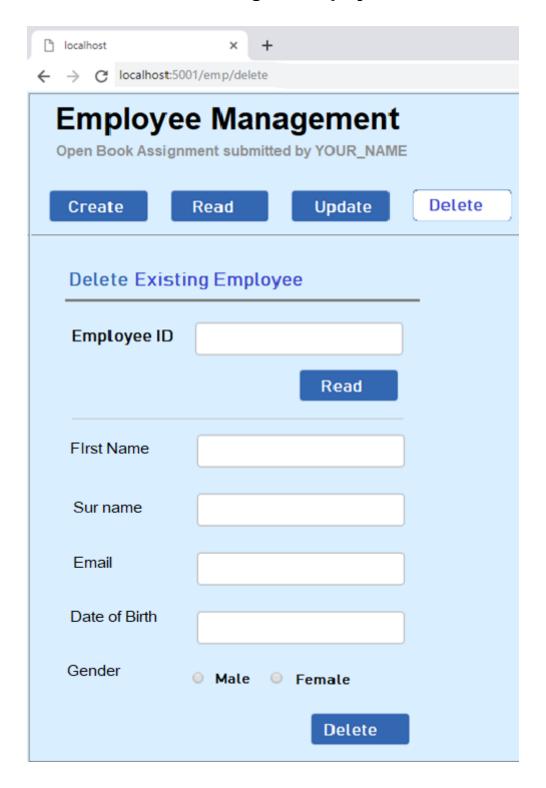
Update a particular employee for the given employee id



JAN 2022 Page **7** of **9**



Delete a particular employee for the given employee id



JAN 2022 Page **8** of **9**



6. FAQ

How assignment is evaluated?

This is evaluated by video interview through Skype or MS teams after assignment submission. During video call, your desktop needs to be shared which will last for about 1-2 hours. It is not an interview; it's just a discussion to establish that you have full control and confidence over your assignment code. Here goes typical agenda

- Show demo of your assignment
- Walk me through application flow by keeping breakpoints
- Answer queries/clarifications related to the assignment.
- Fix minor requirements on the fly during the session.
- General questions regard to Github commit, pull, fetch, push, merges.
- Quick feedback will be provided about your assignment what done well & areas of improvement.

Q/A

JAN 2022 Page **9** of **9**