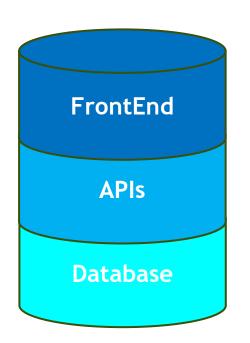
Developers Toolkit Part 2: Middleware to Backend

GROUP 5 Project

Jerico | Eugene | Lijian

Objective

- ► This project serves to demonstrate the principles and knowledge learnt from this course and applied in a real-world context.
- Create a simple web application where an admin user are able to access a HR database to perform 4 basic CRUD operations.

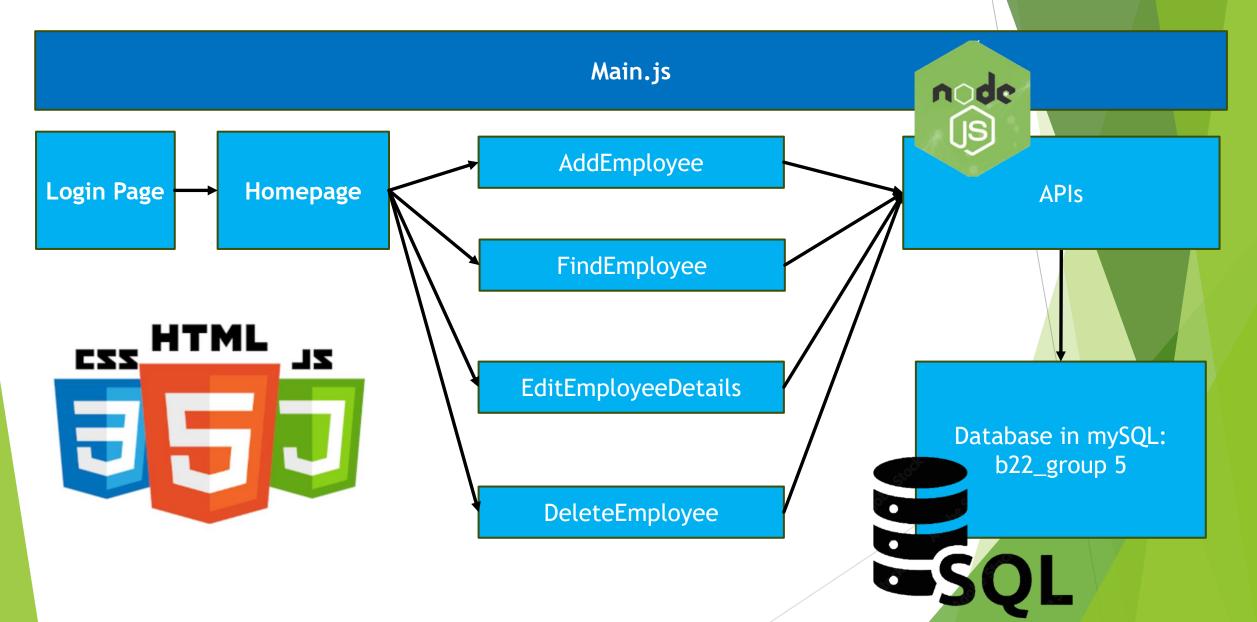


Homepages are created using FE knowledge (Html,CSS)

Taking in queries from FE and passing to BE through APIs developed using node.js

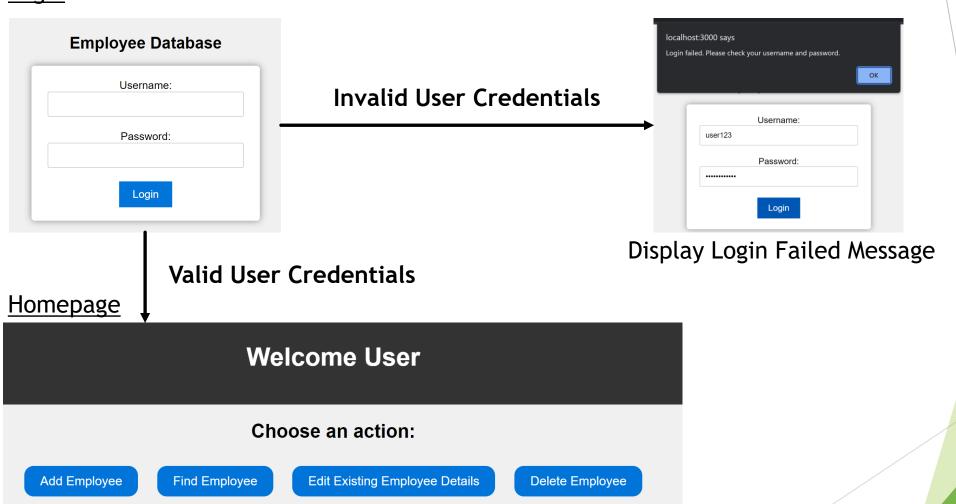
Database query via mySQL

Infrastructure



Login Page

<u>Login</u>



mySQL Database

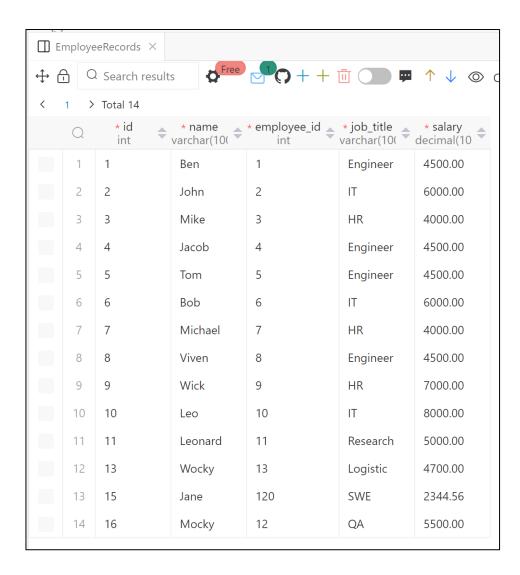
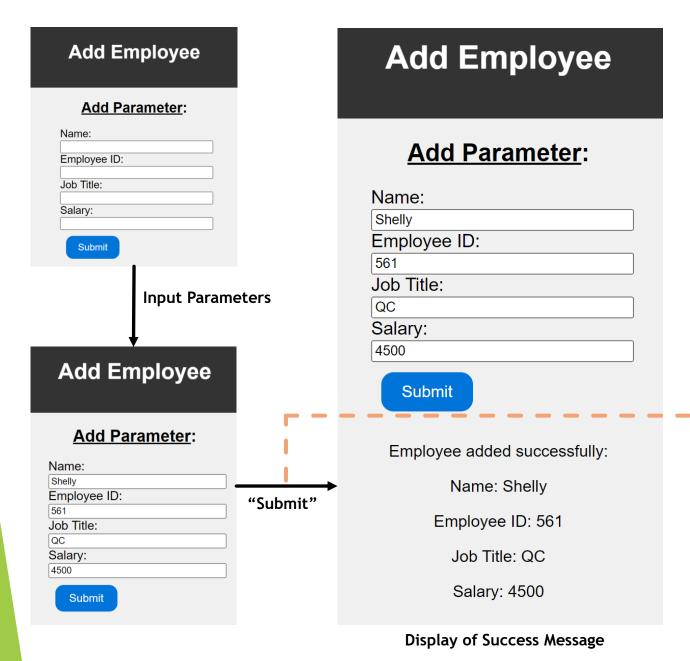


Table Structure

/	Q	Field •	Type blob	Null varchar	Key string	Default blob	Extra varchar	\$
	1	id	int	NO	PRI	(NULL)	auto_increment	
	2	name	varchar(100)	NO		(NULL)		
	3	employee_id	int	NO		(NULL)		
	4	job_title	varchar(100)	NO		(NULL)		
	5	salary	decimal(10,2)	NO		(NULL)		



Add Employee Function



mySQL Database (View)

Before Adding

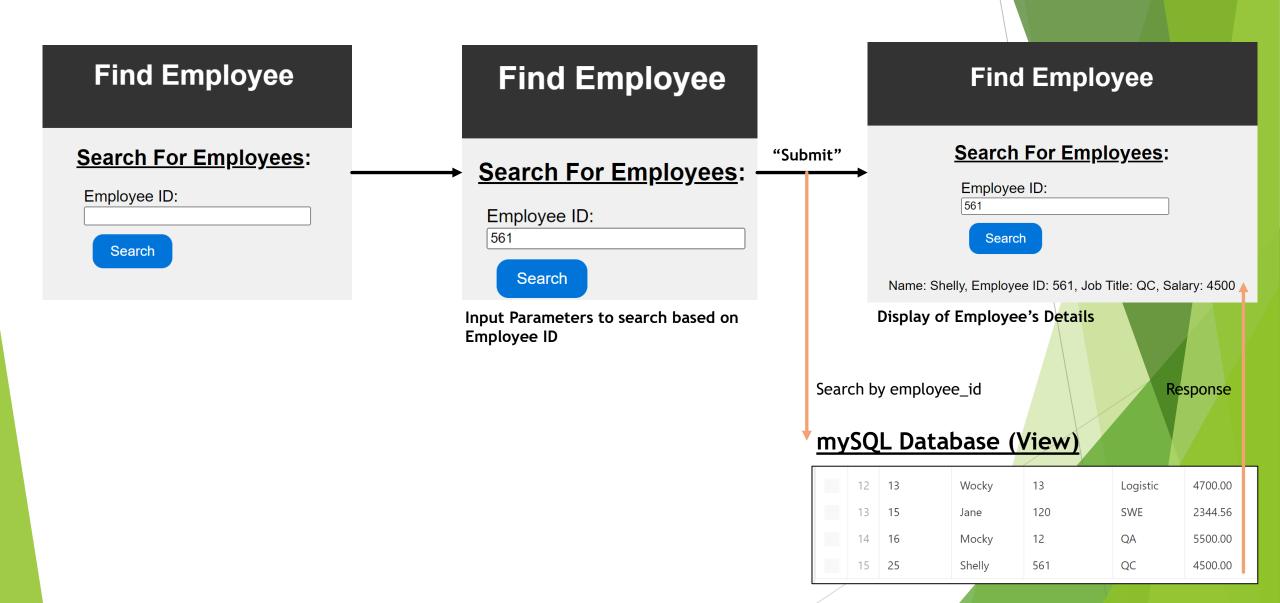


After Adding

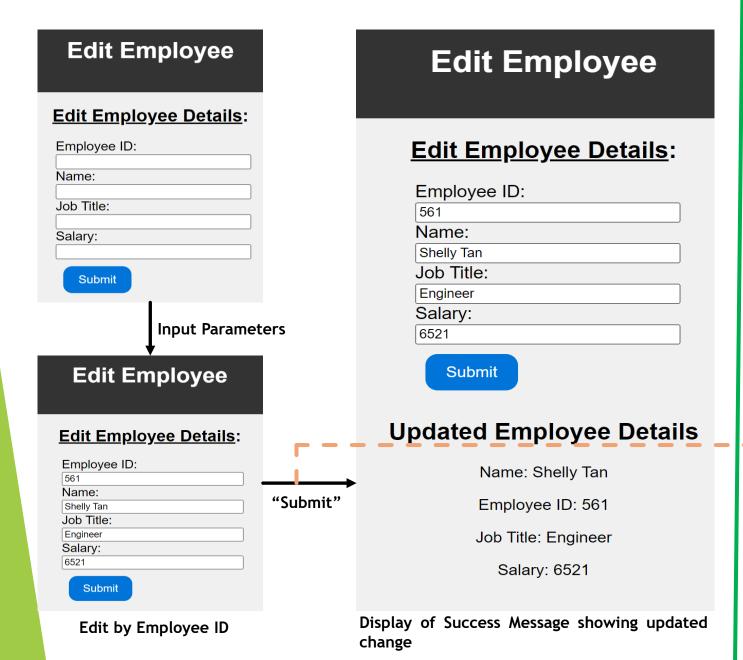
12	13	Wocky	13	Logistic	4700.00
13	15	Jane	120	SWE	2344.56
14	16	Mocky	12	QA	5500.00
15	25	Shelly	561	QC	4500.00

mySQL reflect the addition of new Employee: Shelly

Find Employee Function



Edit Employee Function



mySQL Database (View)

Before Editing

	12	13	Wocky	13	Logistic	4700.00
	13	15	Jane	120	SWE	2344.56
	14	16	Mocky	12	QA	5500.00
	15	25	Shelly	561	QC	4500.00

After Editing

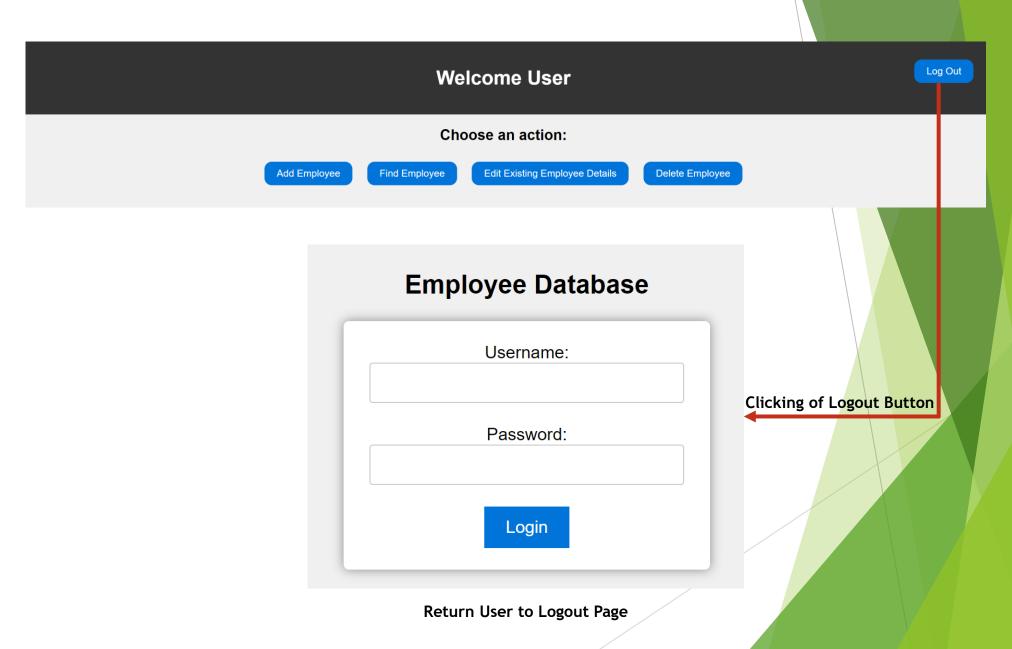
	12	13	Wocky	13	Logistic	4700.00
	13	15	Jane	120	SWE	2344.56
	14	16	Mocky	12	QA	5500.00
	15	25	Shelly Tan	561	Engineer	6521.00

mySQL reflect the change made.

Delete Employee Function



Logout Function



Moving Forwards

- To utilize Auth0 to facilitate users access.
- ▶ To utilize render to deploy the web application on cloud.
- To implement dashboard and charts for better data visualization.
- ► To provide additional functions via CRUD operations
 - ► E.g. More filter parameters (e.g. get-all, get-by-usernames)

Github Repository

https://github.com/jerico88/fintech-backend.git