

## COMP3123 – Assignment 02

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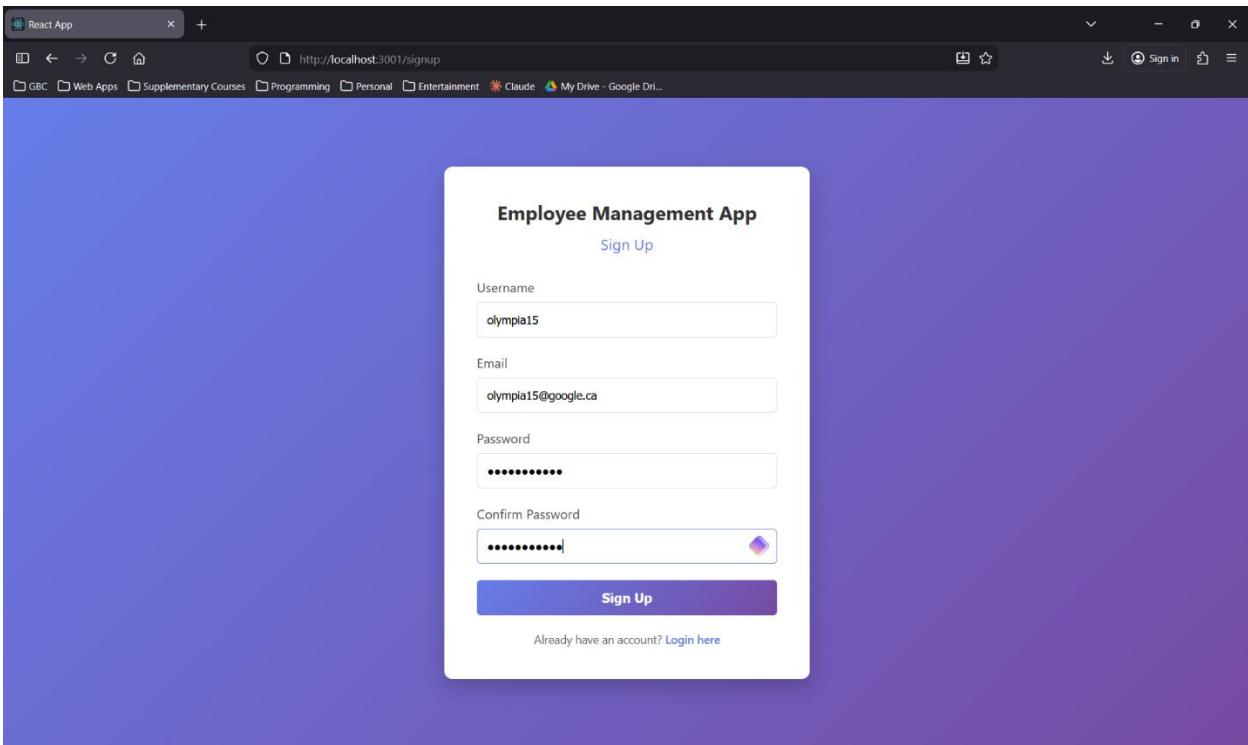
### Containers Running

The screenshot shows the Docker Desktop interface with the title "Containers Running". The sidebar on the left includes "Ask Gordon BETA", "Containers" (which is selected), "Images", "Volumes", "Kubernetes", "Builds", "Models", "MCP Toolkit BETA", "Docker Hub", "Docker Scout", and "Extensions". The main area displays container statistics: Container CPU usage (3.16% / 2000%) and Container memory usage (467.92MB / 15.07GB). A chart titled "Show charts" is available. A search bar and a filter for "Only show running containers" are present. A table lists five running containers:

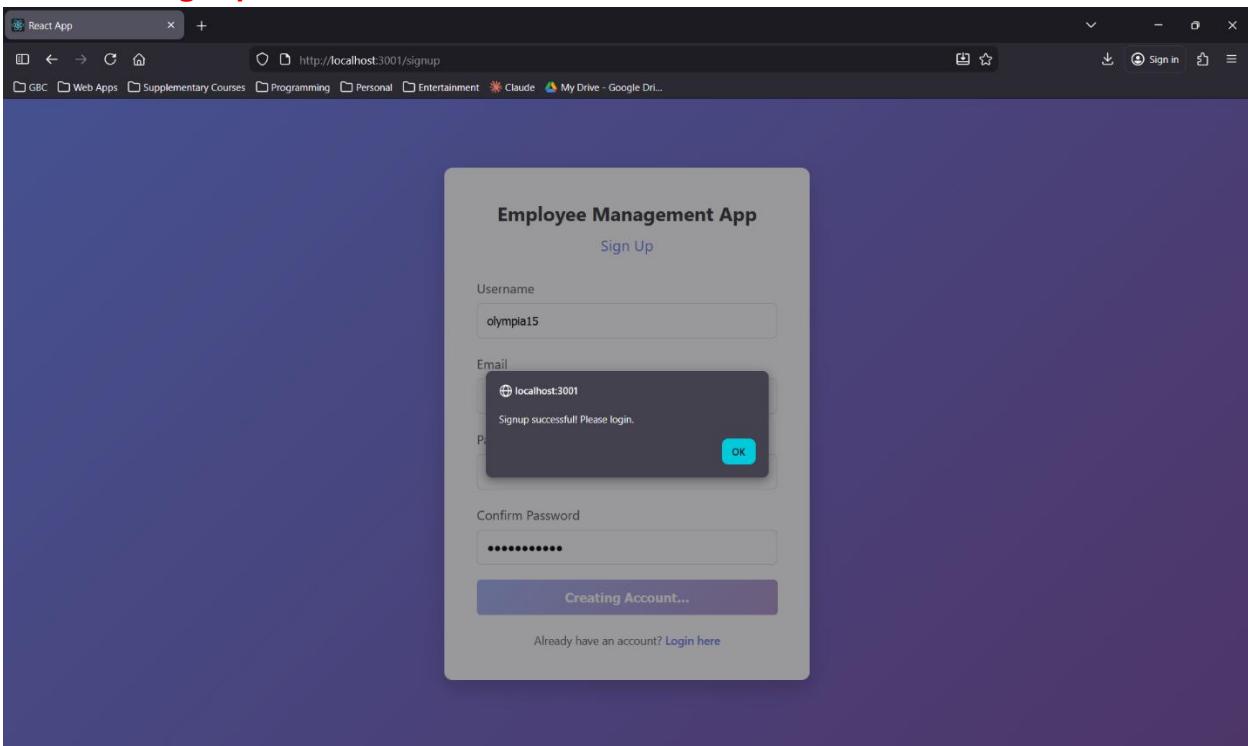
Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
minikube	b1351ac7afe6	k8s-minikube/kicbase	-	0%	12 days ago	[Actions]
101469745_assignment02	-	-	-	9.14%	1 minute ago	[Actions]
employee_mongodb	f5aa81578943	mongo:latest	27017-27017	1.42%	1 minute ago	[Actions]
employee_backend	d000915e49e7	101469745_assignment02:3000	3000:3000	0.22%	1 minute ago	[Actions]
employee_frontend	4fad02d0c91c	101469745_assignment02:3001	3001:3000	7.5%	1 minute ago	[Actions]

At the bottom, it says "Showing 5 items". The status bar at the bottom shows "Engine running", "RAM 3.44 GB CPU 0.05%", "Disk: 21.22 GB used (limit 1006.85 GB)", "Terminal", and "Update available".

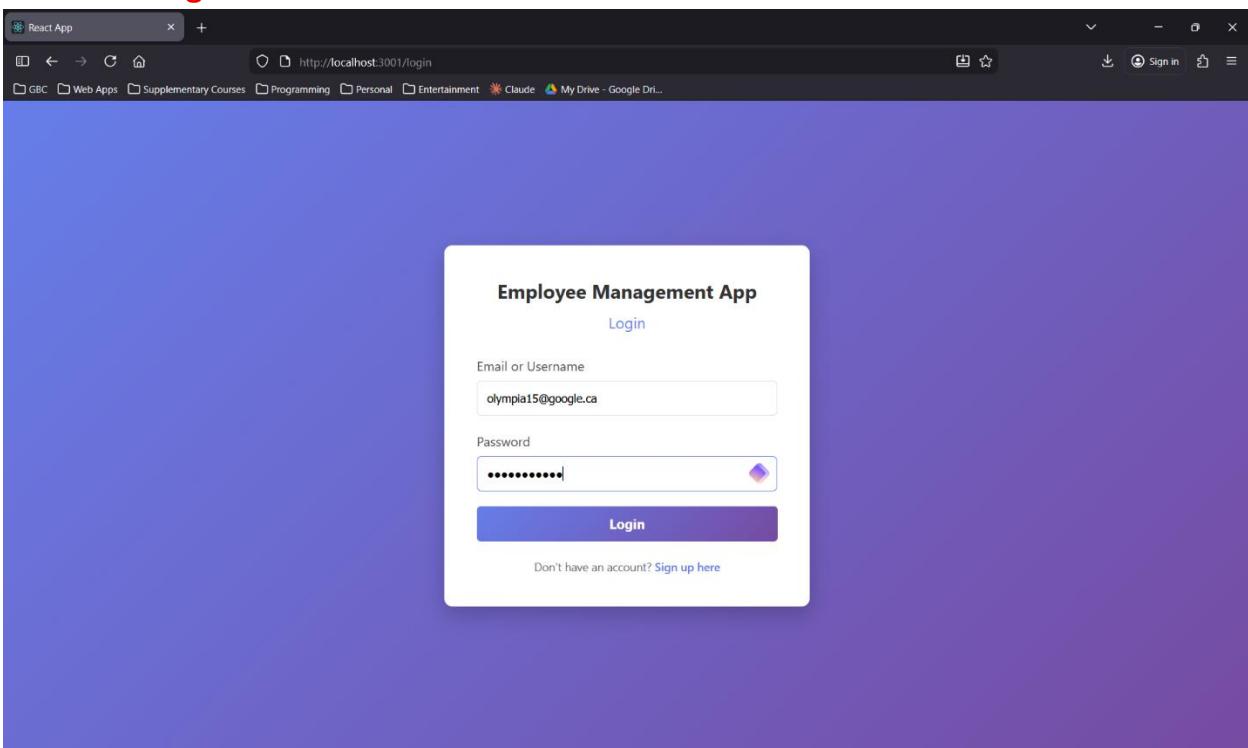
## Frontend: SignUp



## Frontend: SignUp Success



## Frontend: Login

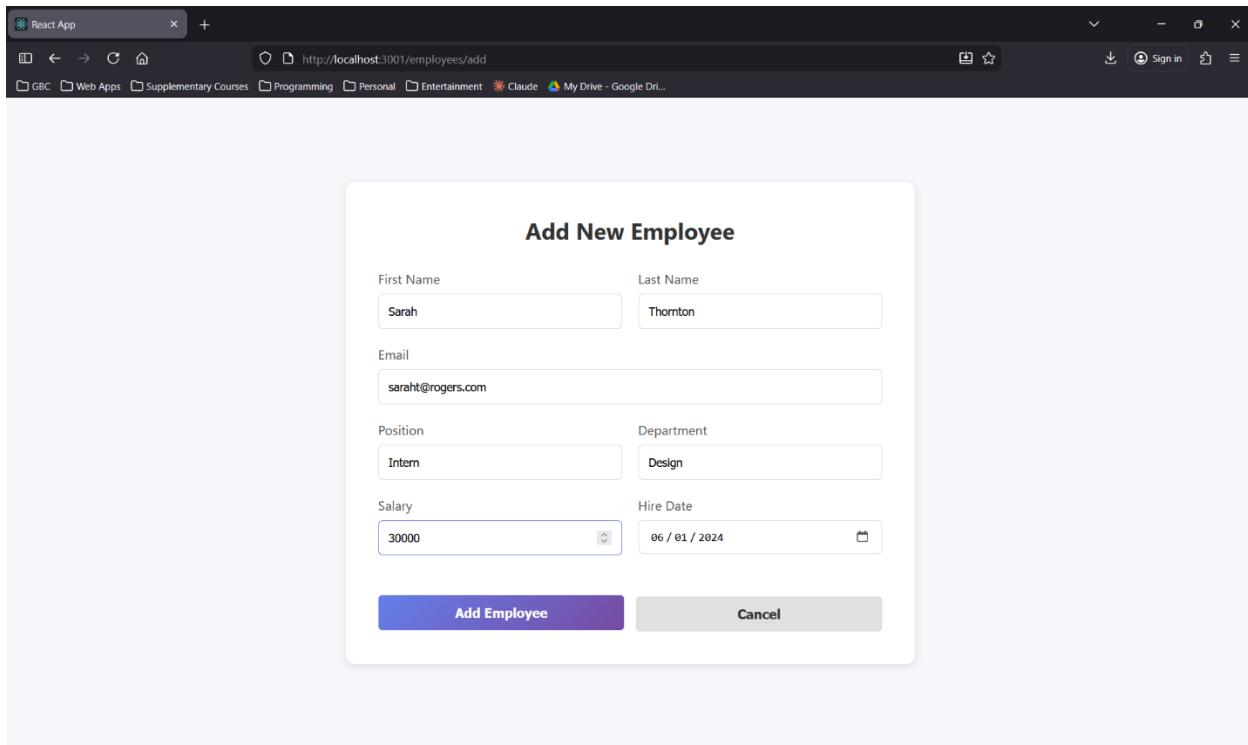


## Frontend: Search Screen with All Employees

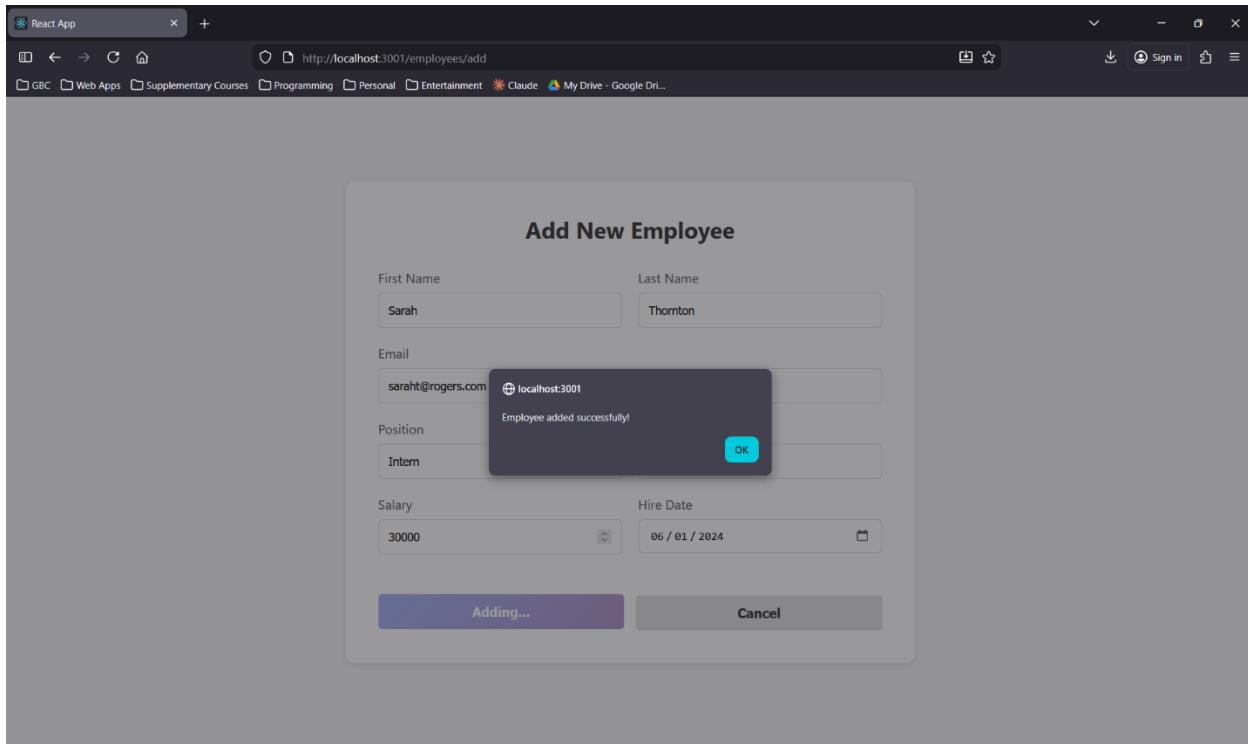
A screenshot of a web browser window showing the search screen of the Employee Management App. The title bar says "React App". The address bar shows "http://localhost:3001/employees". The page has a purple header with the title "Employee Management App" and a welcome message "Welcome, olympia15!" and a "Logout" button. Below the header is a search bar with two input fields: "Search by Department" and "Search by Position", followed by "Search" and "Clear" buttons. The main content is a table with employee data:

First Name	Last Name	Email	Position	Department	Salary	Hire Date	Actions
Alice	Johnson	alice.johnson@example.com	Designer	Design	\$85,000	8/9/2023	<button>View</button> <button>Edit</button> <button>Delete</button>
John	Smith	johnsmith@yahoo.ca	Director	Human Resources	\$100,000	11/11/2023	<button>View</button> <button>Edit</button> <button>Delete</button>
Jane	Doe	janedoe@yahoo.ca	Barista	Frontline	\$35,000	7/12/2020	<button>View</button> <button>Edit</button> <button>Delete</button>
Alex	Medeiros	alex@google.com	Project Manager	Design	\$50,000	4/7/2019	<button>View</button> <button>Edit</button> <button>Delete</button>
Jack	Black	jackblack@apple.com	Technician	IT	\$85,000	11/6/2012	<button>View</button> <button>Edit</button> <button>Delete</button>

## Frontend: Add Employee



## Frontend: Add Success



## Frontend: Search Screen with Newly Added Employee

The screenshot shows a web browser window titled "React App" with the URL "http://localhost:3001/employees". The page header reads "Employee Management App" and "Welcome, olympia15! Logout". A purple button labeled "Add New Employee" is visible. Below it are two search input fields: "Search by Department" and "Search by Position", followed by "Search" and "Clear" buttons. A table lists employee data with columns: First Name, Last Name, Email, Position, Department, Salary, Hire Date, and Actions. The table includes six rows of data and three rows of footer text. The last row of data, for Sarah Thornton, was added after the previous screenshot.

First Name	Last Name	Email	Position	Department	Salary	Hire Date	Actions
Alice	Johnson	alice.johnson@example.com	Designer	Design	\$85,000	8/9/2023	<button>View</button> <button>Edit</button> <button>Delete</button>
John	Smith	johnsmith@yahoo.ca	Director	Human Resources	\$100,000	11/11/2023	<button>View</button> <button>Edit</button> <button>Delete</button>
Jane	Doe	janedoe@yahoo.ca	Barista	Frontline	\$35,000	7/12/2020	<button>View</button> <button>Edit</button> <button>Delete</button>
Alex	Medeiros	alex@google.com	Project Manager	Design	\$50,000	4/7/2019	<button>View</button> <button>Edit</button> <button>Delete</button>
Jack	Black	jackblack@apple.com	Technician	IT	\$85,000	11/6/2012	<button>View</button> <button>Edit</button> <button>Delete</button>
Sarah	Thornton	saraht@rogers.com	Intern	Design	\$30,000	5/31/2024	<button>View</button> <button>Edit</button> <button>Delete</button>

## Frontend: Search by Department

The screenshot shows a web browser window titled "React App" with the URL "http://localhost:3001/employees". The page header reads "Employee Management App" and "Welcome, olympia15! Logout". A purple button labeled "Add New Employee" is visible. Below it are two search input fields: "Design" and "Search by Position", followed by "Search" and "Clear" buttons. A table lists employee data with columns: First Name, Last Name, Email, Position, Department, Salary, Hire Date, and Actions. The table includes four rows of data and three rows of footer text. The results are filtered to show employees in the Design department.

First Name	Last Name	Email	Position	Department	Salary	Hire Date	Actions
Alice	Johnson	alice.johnson@example.com	Designer	Design	\$85,000	8/9/2023	<button>View</button> <button>Edit</button> <button>Delete</button>
Alex	Medeiros	alex@google.com	Project Manager	Design	\$50,000	4/7/2019	<button>View</button> <button>Edit</button> <button>Delete</button>
Sarah	Thornton	saraht@rogers.com	Intern	Design	\$30,000	5/31/2024	<button>View</button> <button>Edit</button> <button>Delete</button>

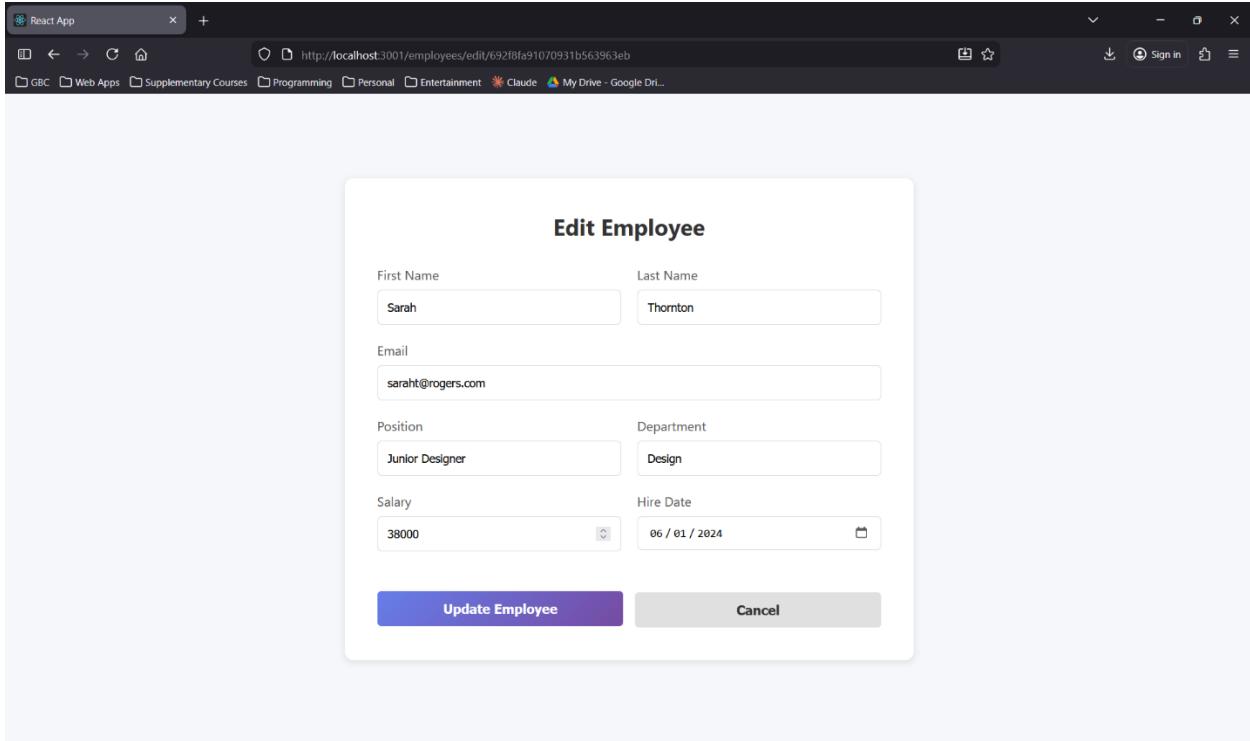
## Frontend: Search by Department and Position

The screenshot shows a web browser window titled "Employee Management App". The URL is <http://localhost:3001/employees>. The page has a purple header bar with the title and a "Logout" button. Below the header is a search bar with two input fields: "Design" and "Intern", and buttons for "Search" and "Clear". A table below the search bar displays employee data with columns: First Name, Last Name, Email, Position, Department, Salary, Hire Date, and Actions. One row is visible, showing Sarah Thornton as an Intern in the Design department with a salary of \$30,000, hired on 5/31/2024. Action buttons for View, Edit, and Delete are shown at the end of her row.

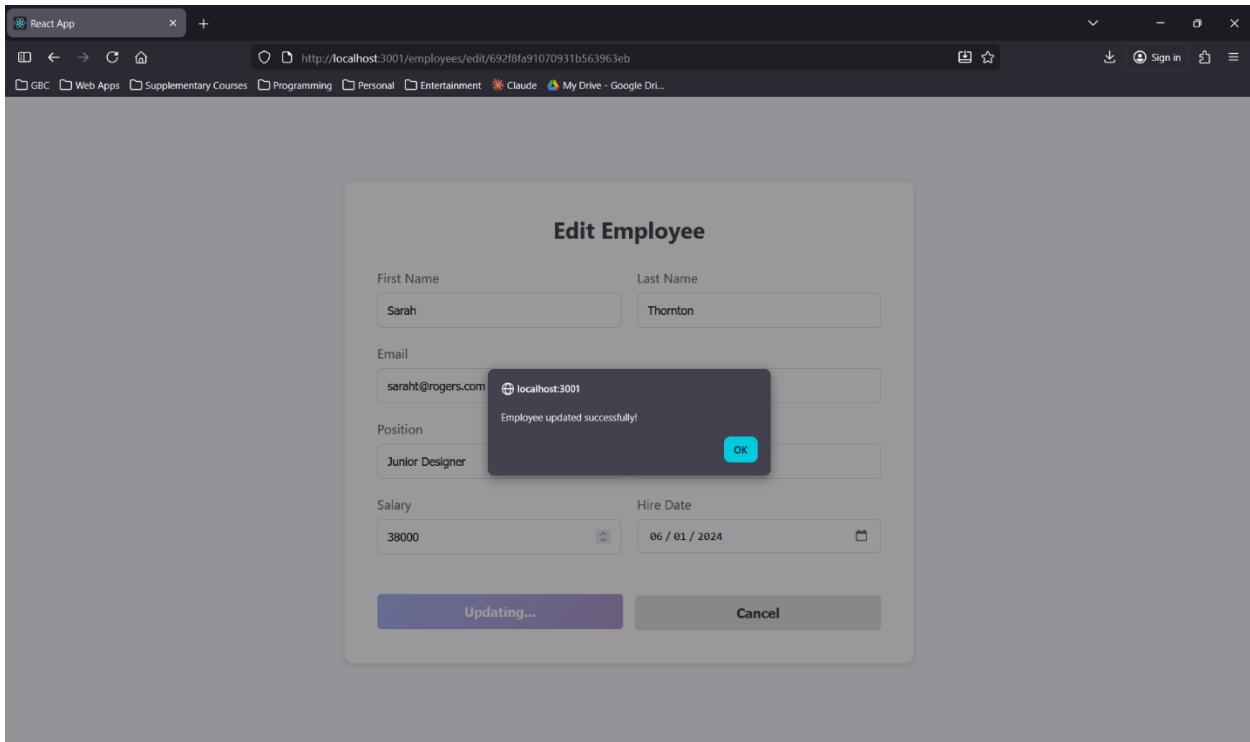
## Frontend: View Employee Details

The screenshot shows a modal window titled "Employee Details" with the URL <http://localhost:3001/employees/view/692f8fa91070931b563963eb>. The modal contains a large circular profile picture with the letters "ST". Below it are six data fields arranged in two columns: First Name (Sarah), Last Name (Thornton), Email (saraht@rogers.com), Position (Intern), Department (Design), and Salary (\$30,000). At the bottom of the modal are two buttons: "Edit Employee" and "Back to List".

## Frontend: Edit Employee



## Frontend: Edit Success



## Frontend: Search by Position (with Updated Employee)

The screenshot shows a web browser window titled "React App" with the URL "http://localhost:3001/employees". The page header reads "Employee Management App" and "Welcome, olympia15! Logout". A search bar at the top contains the text "Search by Department" and "Junior", with "Search" and "Clear" buttons. Below the search bar is a table with columns: First Name, Last Name, Email, Position, Department, Salary, Hire Date, and Actions. A single row is visible for "Sarah Thornton" with email "saraht@rogers.com", position "Junior Designer", department "Design", salary "\$38,000", hire date "5/31/2024", and actions "View", "Edit", and "Delete".

## Frontend: Delete Employee Confirm

The screenshot shows a web browser window titled "React App" with the URL "http://localhost:3001/employees". The page header reads "Employee Management App" and "Welcome, olympia15! Logout". A search bar at the top contains the text "Search by Department" and "Junior", with "Search" and "Clear" buttons. Below the search bar is a table with columns: First Name, Last Name, Email, Position, Department, Salary, Hire Date, and Actions. A single row is visible for "Sarah Thornton" with email "saraht@rogers.com", position "Junior Designer", department "Design", salary "\$38,000", hire date "5/31/2024", and actions "View", "Edit", and "Delete". A modal dialog box is displayed in the center, showing the URL "localhost:3001" and the message "Are you sure you want to delete this employee?", with "OK" and "Cancel" buttons.

## Frontend: Search Screen (After Employee Deleted)

The screenshot shows a web browser window titled "React App" with the URL "http://localhost:3001/employees". The page header is "Employee Management App" with a "Logout" button. The main content area has a title "Add New Employee" and two search input fields: "Search by Department" and "Search by Position", both with "Search" and "Clear" buttons. Below is a table of employee data:

First Name	Last Name	Email	Position	Department	Salary	Hire Date	Actions
Alice	Johnson	alice.johnson@example.com	Designer	Design	\$85,000	8/9/2023	<button>View</button> <button>Edit</button> <button>Delete</button>
John	Smith	johnsmith@yahoo.ca	Director	Human Resources	\$100,000	11/11/2023	<button>View</button> <button>Edit</button> <button>Delete</button>
Jane	Doe	jandedoe@yahoo.ca	Barista	Frontline	\$35,000	7/12/2020	<button>View</button> <button>Edit</button> <button>Delete</button>
Alex	Medeiros	alex@google.com	Project Manager	Design	\$50,000	4/7/2019	<button>View</button> <button>Edit</button> <button>Delete</button>
Jack	Black	jackblack@apple.com	Technician	IT	\$85,000	11/6/2012	<button>View</button> <button>Edit</button> <button>Delete</button>

## Backend: SignUp

The screenshot shows the Postman application interface. The left sidebar shows a collection named "COMP3123" with a sub-collection "COMP3123-assignment02" containing a "User Signup" endpoint. The main panel shows a "POST User Signup" request with the URL "http://localhost:3000/api/v1/user/signup". The request body is a JSON object:

```
1 {  
2   "username": "random",  
3   "email": "random@google.com",  
4   "password": "password321"  
5 }
```

The response section shows a "201 Created" status with a response body:

```
1 {  
2   "message": "User registered successfully",  
3   "user_id": "692f95241870931b56396464"  
4 }
```

## Backend: Login

The screenshot shows the Postman interface for a collection named 'COMP3123'. A 'User Login' POST request is selected. The request URL is `http://localhost:3000/api/v1/user/login`. The request body is set to 'raw' JSON, containing:

```
1 {  
2   "email": "random@google.com",  
3   "password": "password321"  
4 }
```

The response status is 200 OK, with a response time of 49 ms and a response size of 543 B. The response body is:

```
1 {  
2   "message": "Login successful",  
3   "user": {  
4     "id": "692f95241079931b56396404",  
5     "username": "random",  
6     "email": "random@google.com"  
7   }  
8 }
```

## Backend: Login With Wrong Password

The screenshot shows the Postman interface for a collection named 'COMP3123'. A 'User Login' POST request is selected. The request URL is `http://localhost:3000/api/v1/user/login`. The request body is set to 'raw' JSON, containing:

```
1 {  
2   "email": "random@google.com",  
3   "password": "wrongpassword"  
4 }
```

The response status is 400 Bad Request, with a response time of 51 ms and a response size of 497 B. The response body is:

```
1 {  
2   "status": "false",  
3   "message": "Invalid email/username or password"  
4 }
```

## Backend: Create Employee

The screenshot shows the Postman interface for a POST request to create an employee. The collection is 'COMP3123-assignment02' and the endpoint is 'Create Employee'. The request URL is `http://localhost:3000/api/v1/emp/employees`. The request body is a JSON object:

```
1 {  
2   "firstName": "Olympia",  
3   "lastName": "Santaguida",  
4   "email": "olympia@outlook.com",  
5   "position": "Junior DevOps Engineer",  
6   "salary": 65000,  
7   "hireDate": "2025-06-18",  
8   "department": "IT"  
9 }  
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```

## Backend: Update Employee

The screenshot shows the Postman application interface. On the left, the sidebar displays collections, environments, history, flows, and files. The main workspace shows a collection named 'COMP3123' with a sub-collection 'COMP3123-assignment02'. A PUT request titled 'Update Employee' is selected. The request URL is `http://localhost:3000/api/v1/emp/employees/692f95eb1070931b5639640a`. The 'Body' tab is active, showing raw JSON data:

```
1  {
2     "position": "Senior DevOps Engineer",
3     "salary": 75000
4 }
```

The response status is 200 OK, with a response time of 8 ms, a size of 508 B, and a timestamp of 2023-06-18T00:00:00Z. The response body is:

```
1  {
2     "message": "Employee updated successfully.",
3     "employee_id": "692f95eb1070931b5639640a"
4 }
```

## Backend: Get Employee By ID (with Updated Employee)

The screenshot shows the Postman application interface. The sidebar and collection structure are identical to the previous screenshot. A GET request titled 'Get Employee By Id' is selected. The request URL is `http://localhost:3000/api/v1/emp/employees/692f95eb1070931b5639640a`. The 'Params' tab is active, showing a table for 'Query Params' with two rows:

Key	Value	Description	Bulk Edit
Key	Value	Description	

The response status is 200 OK, with a response time of 9 ms, a size of 649 B, and a timestamp of 2023-06-18T00:00:00Z. The response body is:

```
1  {
2     "employee_id": "692f95eb1070931b5639640a",
3     "firstName": "Olympia",
4     "lastName": "Santaguida",
5     "email": "olympia@outlook.com",
6     "position": "Senior DevOps Engineer",
7     "salary": 75000,
8     "hireDate": "2025-06-18T00:00:00Z",
9     "department": "IT"
10 }
```

## Backend: Delete Employee

The screenshot shows the Postman interface with the following details:

- Collection:** COMP3123
- Request:** COMP3123-assignment02 / Delete Employee
- Method:** DELETE
- URL:** `http://localhost:3000/api/v1/emp/employees?id=692f95eb1070931b5639640a`
- Query Params:**
  - Key: Value
  - id: 692f95eb1070931b5639640a
  - Key: Value
- Response Status:** 204 No Content
- Body:** Raw (empty)

## Backend: Get Employee By ID (with Deleted Employee)

The screenshot shows the Postman interface with the following details:

- Collection:** COMP3123
- Request:** COMP3123-assignment02 / Get Employee By Id
- Method:** GET
- URL:** `http://localhost:3000/api/v1/emp/employees/692f95eb1070931b5639640a`
- Query Params:**
  - Key: Value
  - Key: Value
- Response Status:** 404 Not Found
- Body:** JSON (empty)

```
1 f
2   "status": "false",
3   "message": "Employee not found."
4 j
```

## Backend: Get Employee by ID (with Active Employee)

The screenshot shows the Postman application interface. On the left, the sidebar displays collections, environments, history, and flows. The main workspace shows a collection named "COMP3123" with a sub-collection "COMP3123-assignment02". Under this sub-collection, there are several API endpoints: "User Signup" (POST), "User Login" (POST), "Create Employee" (POST), "Get All Employees" (GET), "Get Employee By Id" (GET, which is selected), "Update Employee" (PUT), and "Delete Employee" (DELETE). The "Get Employee By Id" endpoint is selected, and its details are shown in the center panel. The method is set to "GET", the URL is "http://localhost:3000/api/v1/emp/employees/692f84118e9aa5e35ce29053", and the "Query Params" section is empty. Below this, the "Body" tab is selected, showing a JSON response with the following data:

```
1  {
2    "employee_id": "692f84118e9aa5e35ce29053",
3    "firstName": "Jack",
4    "lastName": "Black",
5    "email": "jackblack@apple.com",
6    "position": "Technician",
7    "salary": 85000,
8    "hireDate": "2012-11-07T00:00:00Z",
9    "department": "IT"
10 }
```

The response status is "200 OK" with a duration of 9 ms and a size of 629 B. The "Body" tab also includes "Cookies", "Headers (10)", and "Test Results" sections. At the bottom of the interface, there are various navigation and utility buttons like "Cloud View", "Find and replace", "Console", "Postbot", "Runner", "Start Proxy", "Cookies", "Vault", "Trash", and "Help".