

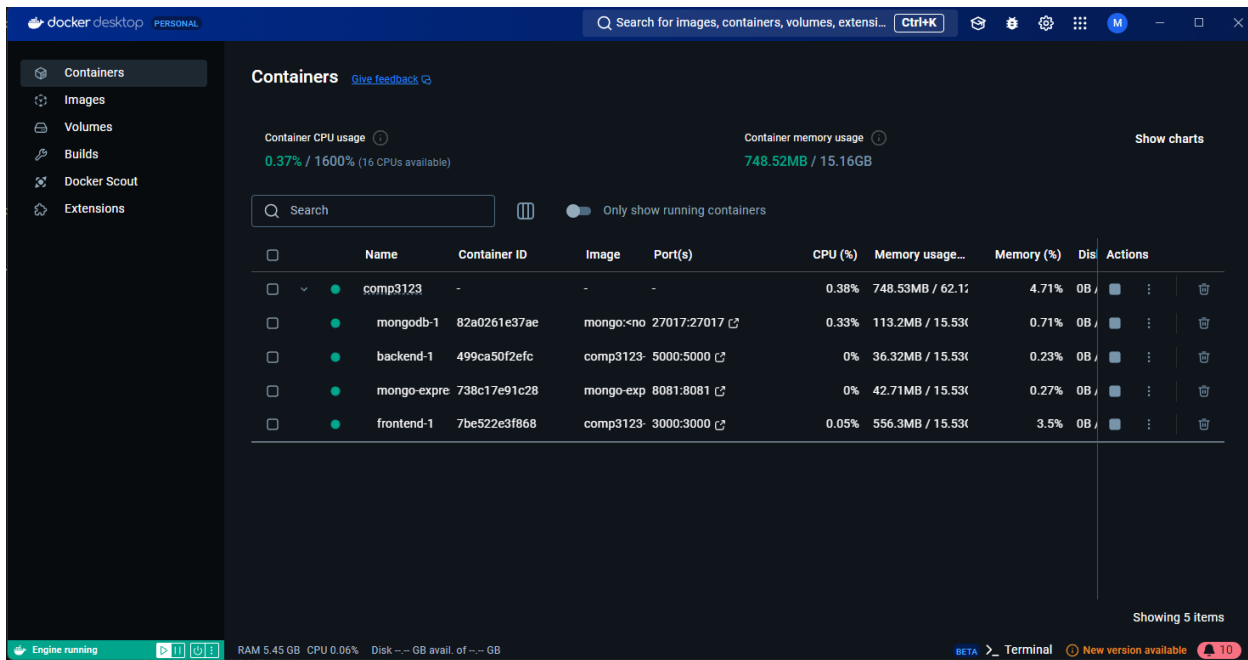
Assignment2 – Full Stack Development – I

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GitHub Link: https://github.com/Harrybandukda/101451857_COMP3123_Assignme

1) Docker Deployment



2) Docker CMD

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE SPELL CHECKER COMMENTS
=> => transferring context: 5.84MB
=> CACHED [frontend 3/5] COPY package.json ./
=> CACHED [frontend 4/5] RUN npm install
=> [frontend 5/5] COPY . .
=> [frontend] exporting to image
=> => exporting layers
=> => writing image sha256:1266678e724de3e9fe143b928541a79e315c19c290d813714a01afefcd3f8500
=> => naming to docker.io/library/comp3123-frontend
=> [frontend] resolving provenance for metadata file
[+] Running 5/5
  ✓ Network comp3123_default          Created
  ✓ Container comp3123-mongodb-1      Started
  ✓ Container comp3123-mongo-express-1 Started
  ✓ Container comp3123-backend-1      Started
  ✓ Container comp3123-frontend-1     Started
PS D:\GBC\S5\FullStack\Assignment\101451857_comp3123_assignment2>
```

3) Mongo DB

The screenshot shows the Mongo Express web interface in a browser. The address bar indicates the URL is localhost:8081. The page title is "Mongo Express Database".

Databases

Database Name		+ Create Database
View	admin	Del
View	assignment2	Del
View	config	Del
View	local	Del

Server Status

Hostname	5f208d3a659d	MongoDB Version	8.0.3
Uptime	70 seconds	Node Version	18.20.3
Server Time	Wed, 27 Nov 2024 19:18:57 GMT	VS Version	10.2.154.26-node.37
Current Connections	7	Available Connections	838853
Active Clients	0	Queued Operations	0
Clients Reading	0	Clients Writing	0
Read Lock Queue	0	Write Lock Queue	0

4) Database

The screenshot shows the Mongo Express web interface for the "assignment2" database. The address bar indicates the URL is localhost:8081/db/assignment2/. The page title is "Mongo Express Database: assignment2".

Viewing Database: assignment2

Collections

Collection Name				+ Create collection	
View	Export	[JSON]	Import	employees	Del
View	Export	[JSON]	Import	users	Del

Database Stats

Collections (incl. system.namespaces)	2
Data Size	191 Bytes
Storage Size	24.6 KB
Avg Obj Size #	191 Bytes
Objects #	1
Indexes #	3
Index Size	45.1 KB

5) User Table

Mongo Express Database: assignment2 Collection: users

Viewing Collection: users

[New Document](#) [New Index](#)

[Simple](#) [Advanced](#)

Key Value String Find

Delete all 3 documents retrieved

_id	username	email	password	createdAt	updatedAt	__v
67476f6e238721fc94f639a9	Harry	harry@gmail.com	\$2a\$10\$09LoNuEUX3CKJPU1oBnlu8kIEExXhvAz7Si6FEVG...	Wed Nov 27 2024 19:13:50 GMT+0000 (Coordinated Universal Time)	Wed Nov 27 2024 19:13:50 GMT+0000 (Coordinated Universal Time)	0
67477135be716bb031ee31a8	Pritesh	prites@gmail.com	\$2a\$10\$CMBxWfgalsko4LbPrsM.nUCIHhKOV53eLxVOhrl...	Wed Nov 27 2024 19:21:25 GMT+0000 (Coordinated Universal Time)	Wed Nov 27 2024 19:21:25 GMT+0000 (Coordinated Universal Time)	0
6747750bbe716bb031ee31f6	Mohammed	tawalleh@gmail.com	\$2a\$10\$F4Kb2YX0Ku33cRwbv7uueeYVwESW0bC3usKP4YF0...	Wed Nov 27 2024 19:37:47 GMT+0000 (Coordinated Universal Time)	Wed Nov 27 2024 19:37:47 GMT+0000 (Coordinated Universal Time)	0

6) Employee Table

Mongo Express Database: assignment2 Collection: employees

Viewing Collection: employees

[New Document](#) [New Index](#)

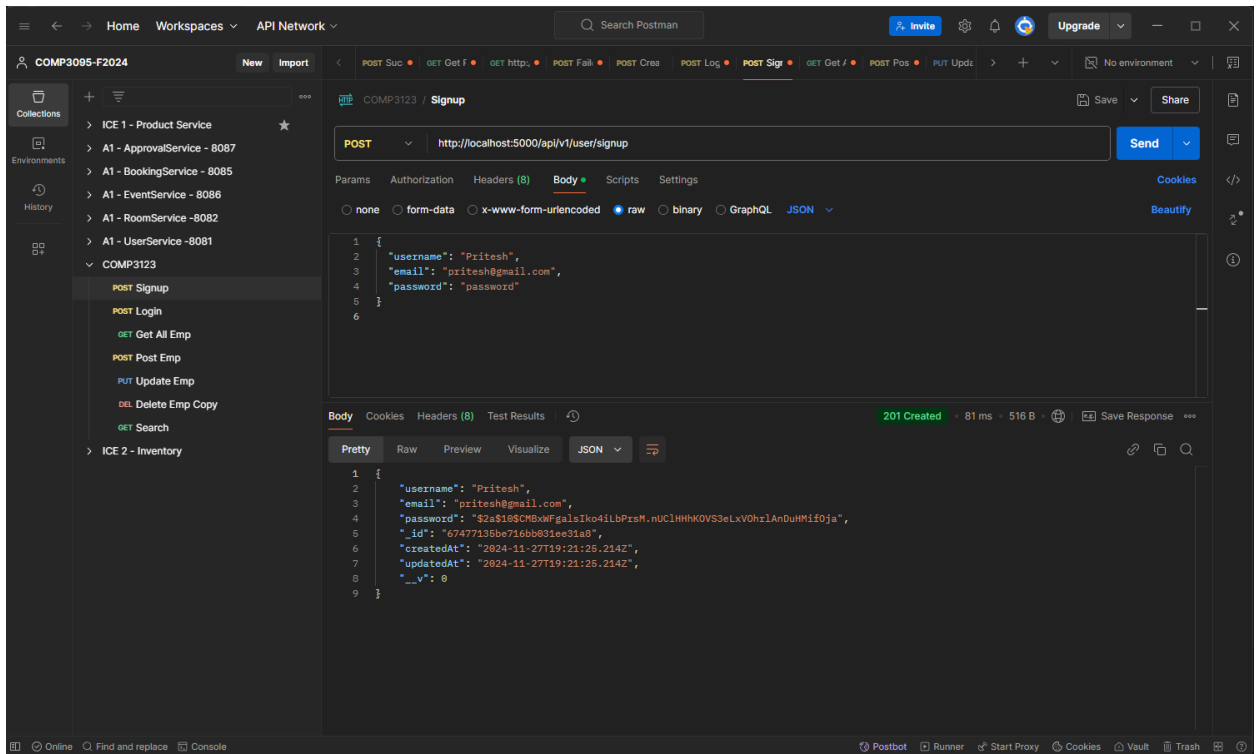
[Simple](#) [Advanced](#)

Key Value String Find

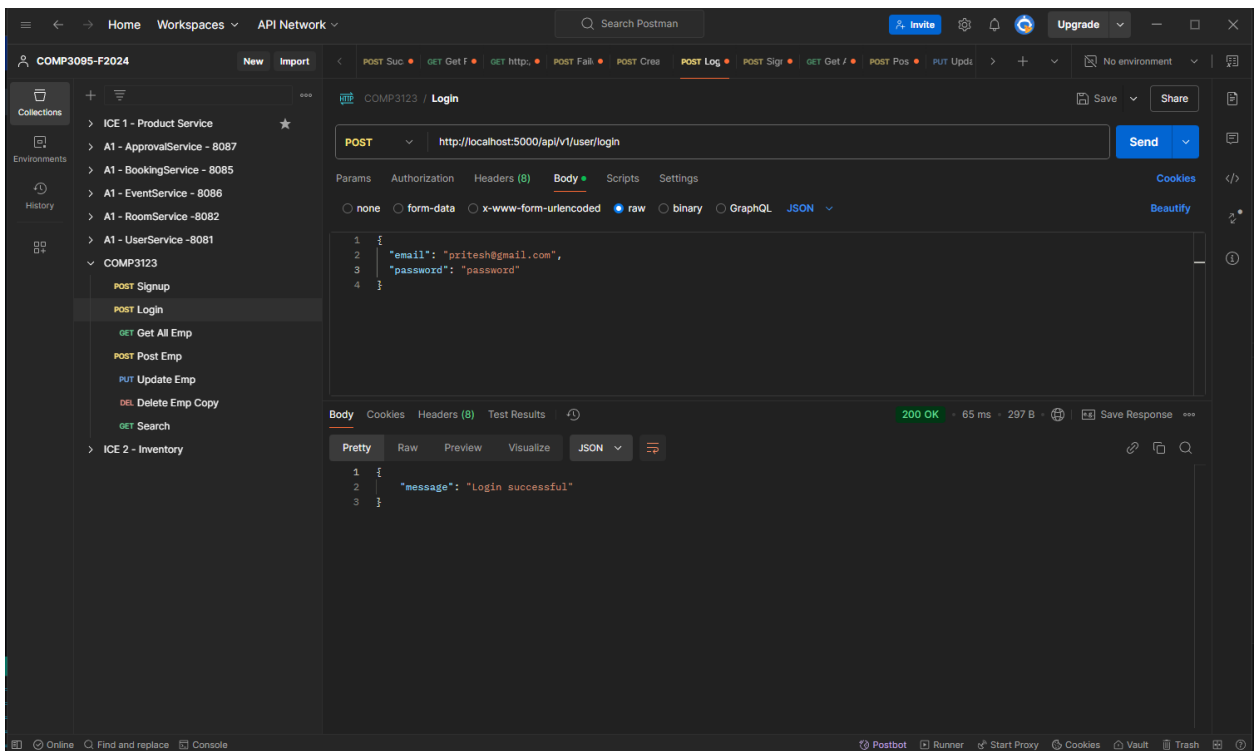
Delete all 4 documents retrieved

_id	first_name	last_name	email	position	salary	date_of_joining	department	createdAt	updatedAt	__v
674771e6be716bb031ee31b2	Harry	Bandukda	harry@example.com	Manager	60000	Sun Jan 15 2023 00:00:00 GMT+0000 (Coordinated Universal Time)	IT	Wed Nov 27 2024 19:24:22 GMT+0000 (Coordinated Universal Time)	Wed Nov 27 2024 19:24:22 GMT+0000 (Coordinated Universal Time)	0
67477201be716bb031ee31b4	Pritesh	Patel	patel@example.com	Senior Developer	200000	Mon Jan 15 2024 00:00:00 GMT+0000 (Coordinated Universal Time)	IT	Wed Nov 27 2024 19:24:49 GMT+0000 (Coordinated Universal Time)	Wed Nov 27 2024 19:32:59 GMT+0000 (Coordinated Universal Time)	0
67477230be716bb031ee31b6	James	Charles	james@example.com	Manager	120000	Sun Jan 15 2023 00:00:00 GMT+0000 (Coordinated Universal Time)	HR	Wed Nov 27 2024 19:25:36 GMT+0000	Wed Nov 27 2024 19:25:36 GMT+0000	0

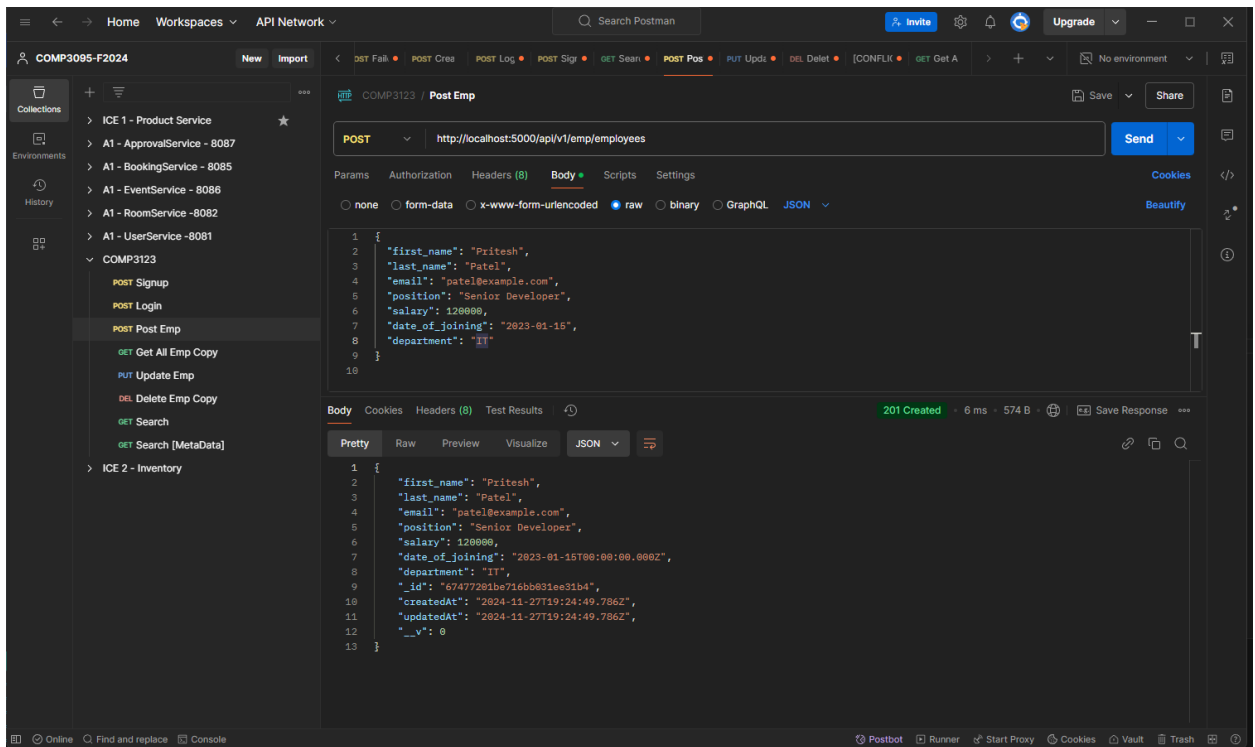
1) Postman → Signup → Added Pritesh as a User



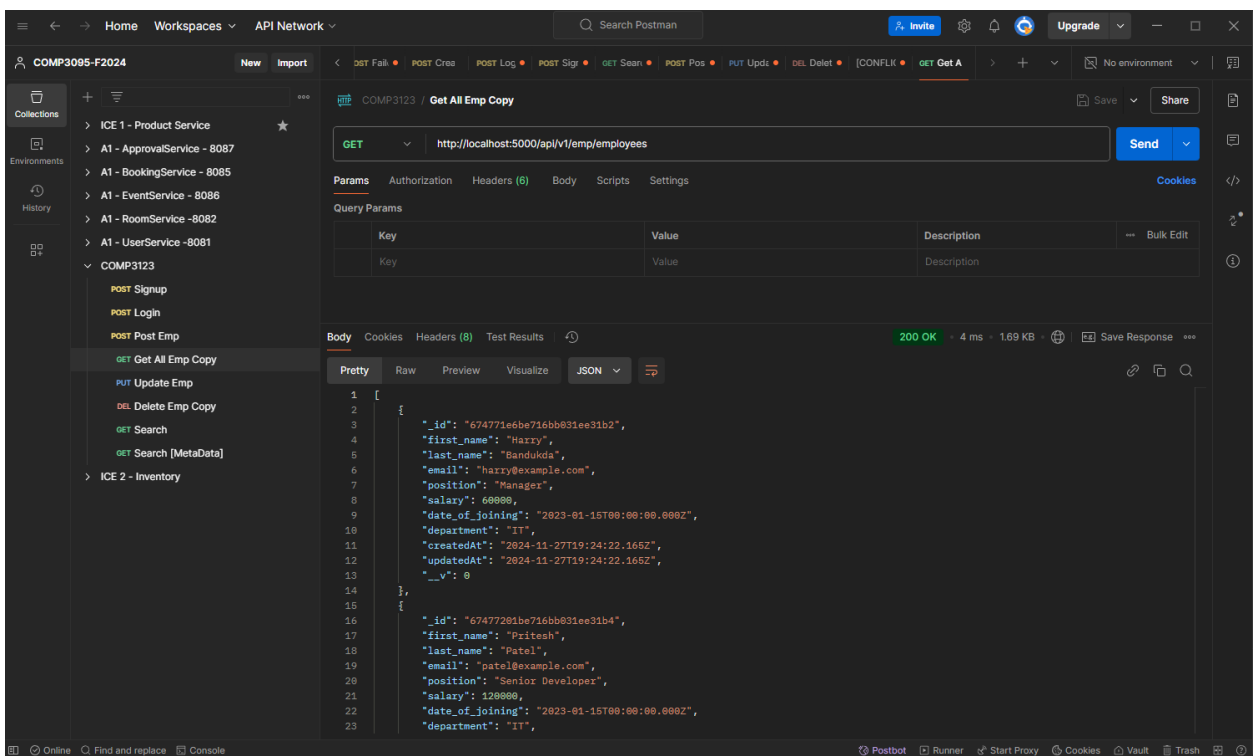
2) Postman → Login as Pritesh



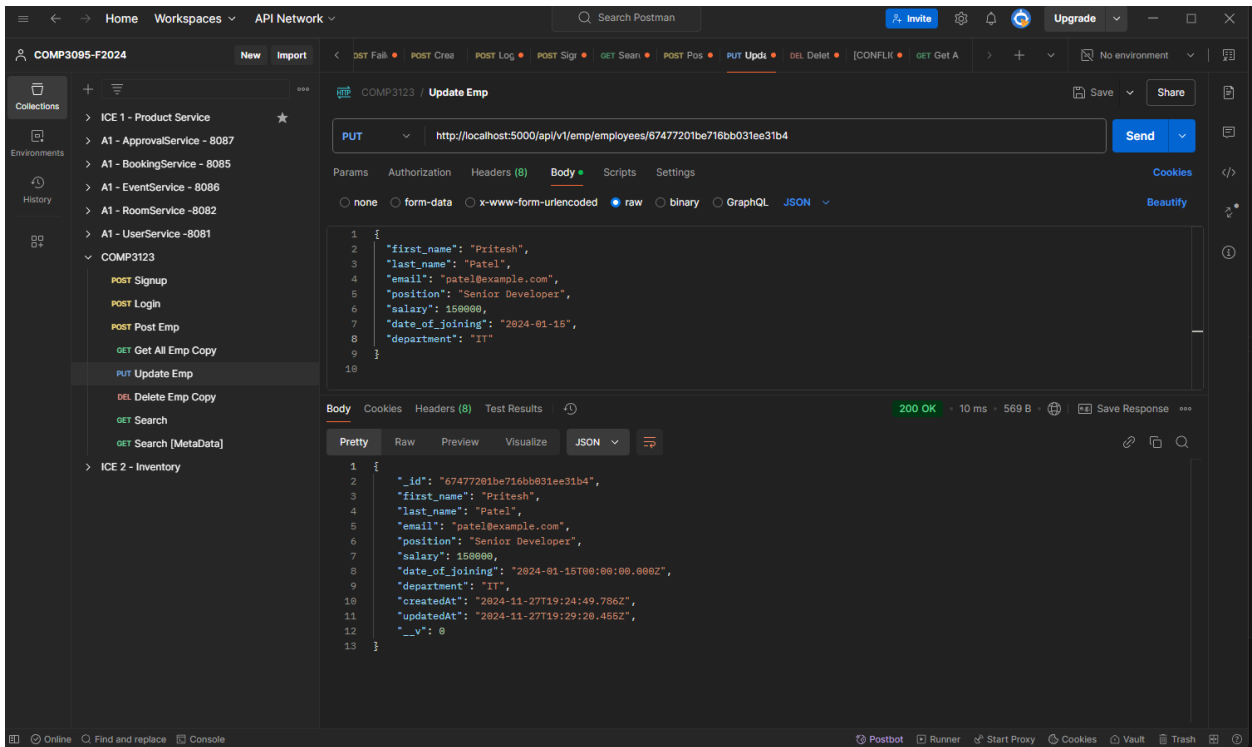
3) Postman → Add Employee → Added Pritesh as an employee



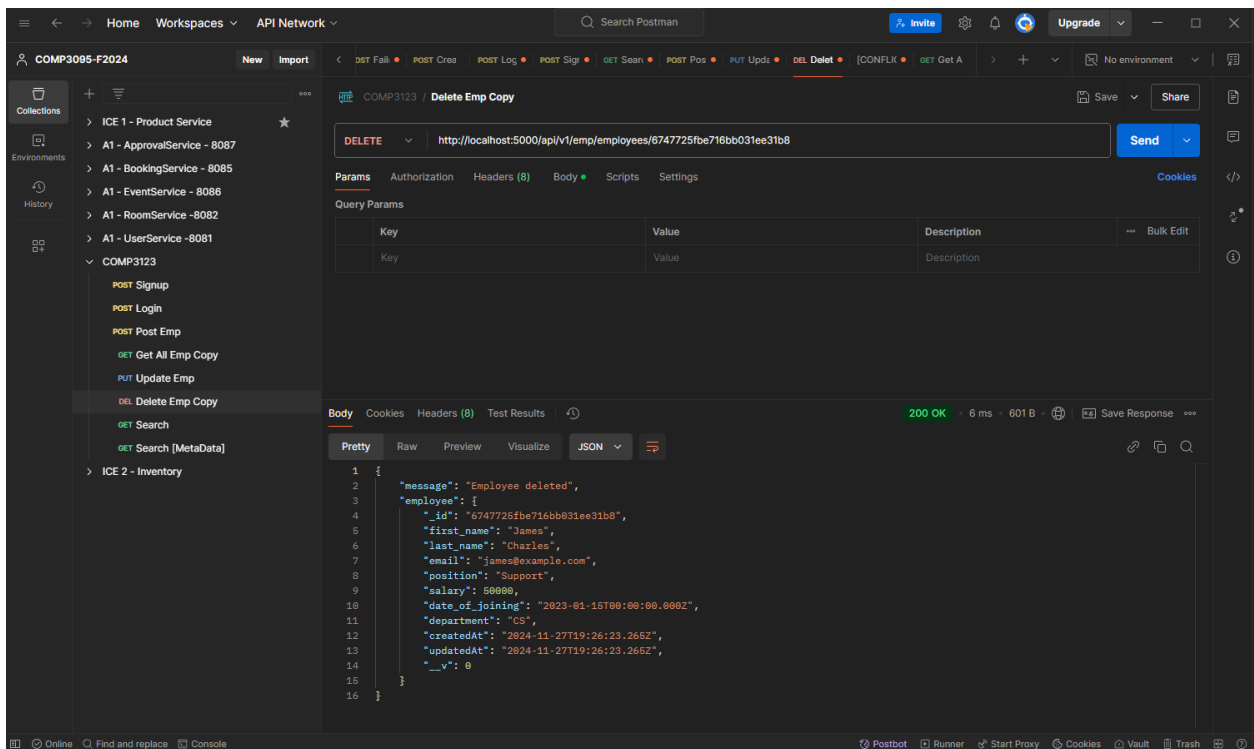
4) Postman → Get All Employee



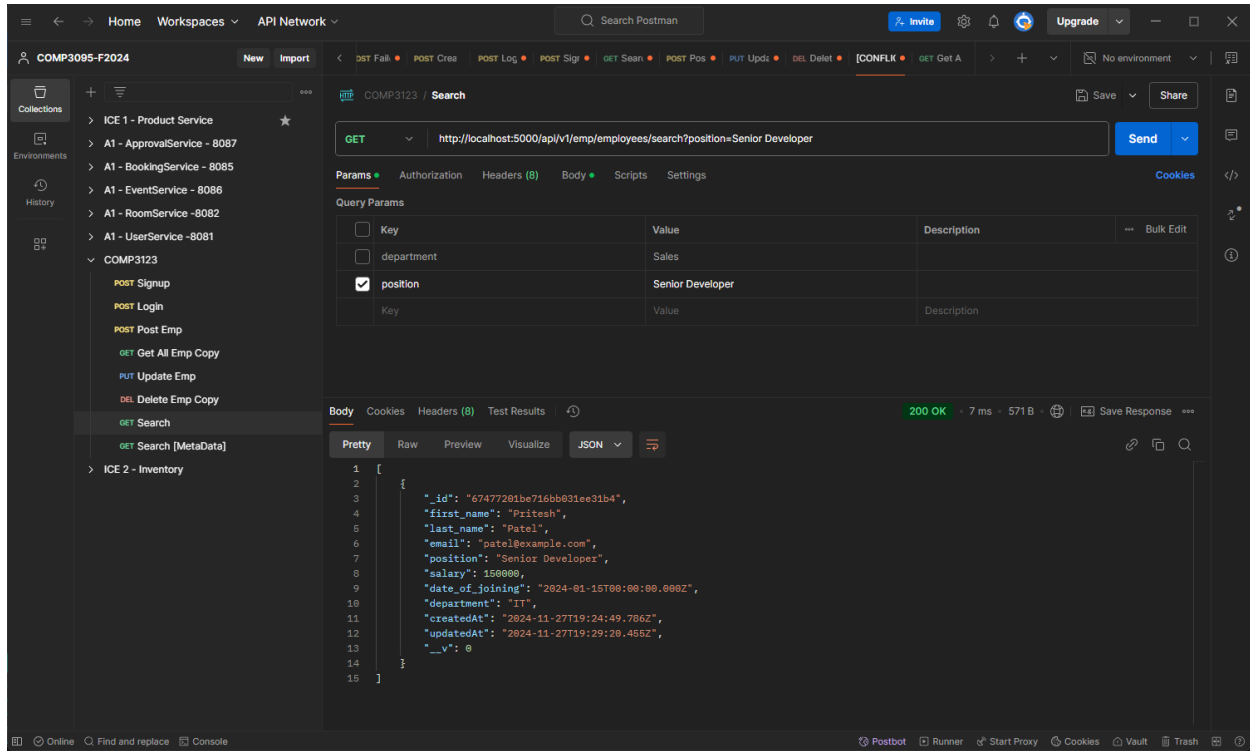
5) Postman → Update Employee Salary to 150k



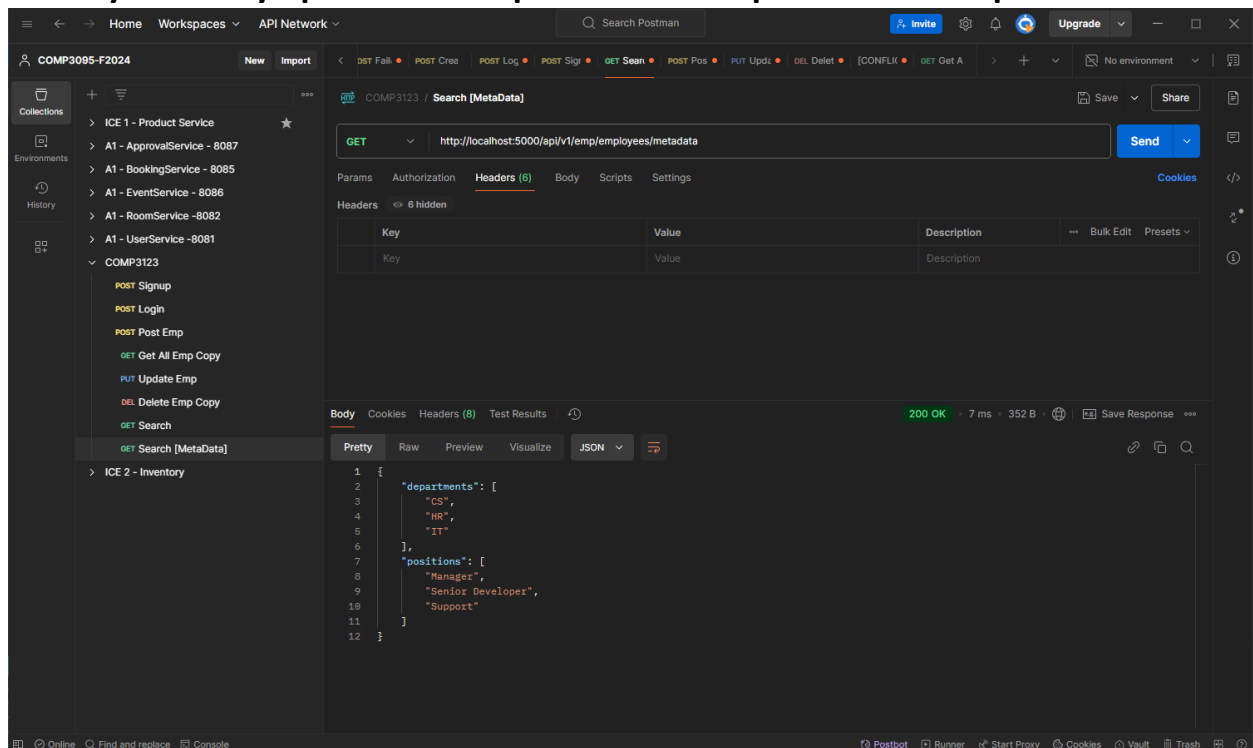
7) Postman → Delete Employee → Delete James Charles from the List



8) Postman → Search Employee → Search by Position (Senior Dev)



9) Postman → Search Metadata (Internal) → This restAPI help the search to dynamically update the dropbox with new position and departments



10) Front End → Login → Incorrect password (Validation)

The screenshot shows a web browser window with the URL `localhost:3000/login`. The page has a blue header with the text "Employee Management" and links for "LOGIN" and "SIGN UP". The main content area features a "Sign in" form with two input fields: "Email Address *" containing `harrisbandukda@gmail.com` and "Password *" containing `hello`. Below the fields is a blue "SIGN IN" button. A red error message, "Invalid email or password", is displayed at the bottom of the form.

11) Front End → Signup Page

The screenshot shows a web browser window with the URL `localhost:3000/signup`. The page has a blue header with the text "Employee Management" and links for "LOGIN" and "SIGN UP". The main content area features a "Sign Up" form with a purple user icon at the top. The form contains three input fields: "Username *" with the value `Mohammed`, "Email Address *" with the value `tawalleh@gmail.com`, and "Password *" with masked characters `*****`. A blue "SIGN UP" button is located at the bottom of the form.

12) Front End → Employee List with dynamic Nav Bar

The screenshot shows a web application interface for managing employees. The browser address bar indicates the URL is `localhost:3000/employees`. The navigation bar at the top is blue and contains the text "Employee Management" on the left, and links for "EMPLOYEES", "harry@gmail.com", and "LOGOUT" on the right. The main content area is titled "Employee List" and includes a blue "ADD EMPLOYEE" button. Below the title are two dropdown menus for "Department" and "Position", followed by a blue "SEARCH" button. A table displays a list of employees with columns for First Name, Last Name, Email, Position, Department, Salary, Date of Joining, and Actions. The table contains five rows of data, each with a "VIEW", "UPDATE", and "DELETE" link in the Actions column.

First Name	Last Name	Email	Position	Department	Salary	Date of Joining	Actions
Harry	Bandukda	harry@example.com	Manager	IT	\$60,000	1/15/2023	VIEW UPDATE DELETE
Pritesh	Patel	patel@example.com	Senior Developer	IT	\$150,000	1/15/2024	VIEW UPDATE DELETE
James	Charles	james@example.com	Manager	HR	\$120,000	1/15/2023	VIEW UPDATE DELETE
Navjot	Kaur	nav@example.com	Support	CS	\$55,000	1/15/2024	VIEW UPDATE DELETE

13) Front End → Add Emp

The screenshot shows the "Add New Employee" form in a web application. The browser address bar indicates the URL is `localhost:3000/add-employee`. The navigation bar at the top is blue and contains the text "Employee Management" on the left, and links for "EMPLOYEES", "pritesh@gmail.com", and "LOGOUT" on the right. The main content area is titled "Add New Employee" and contains a form with the following fields: First Name (Salman), Last Name (Khan), Email (sallu@gmail.com), Position (CEO), Department (Manager), Salary (400000), and Date of Joining (10/16/2024). At the bottom of the form are two buttons: "CANCEL" and "ADD EMPLOYEE".

14) Front End → Added Successful

Employee Management

localhost:3000 says
Employee added successfully

EMPLOYEES pritesh@gmail.com LOGOUT

Add New Employee

First Name *
Salman

Last Name *
Khan

Email *
sallu@gmail.com

Position *
CEO

Department *
Manager

Salary *
400000

Date of Joining *
10/16/2024

[← CANCEL](#) [+ ADD EMPLOYEE](#)

15) Front End → Update Emp → Salary Updated to 200k

Employee Management

localhost:3000 says
Employee updated successfully

EMPLOYEES pritesh@gmail.com LOGOUT

Edit Employee

First Name *
Pritesh

Last Name *
Patel

Email *
patel@example.com

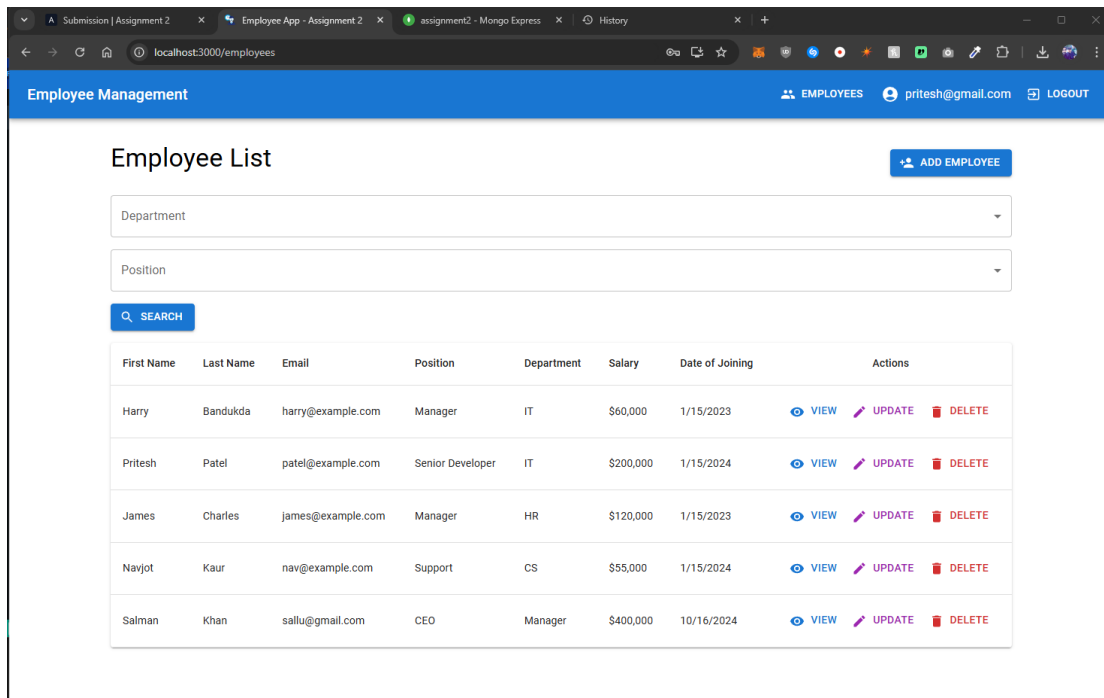
Position *
Senior Developer

Department *
IT

Salary *
200000

[← CANCEL](#) [UPDATE EMPLOYEE](#)

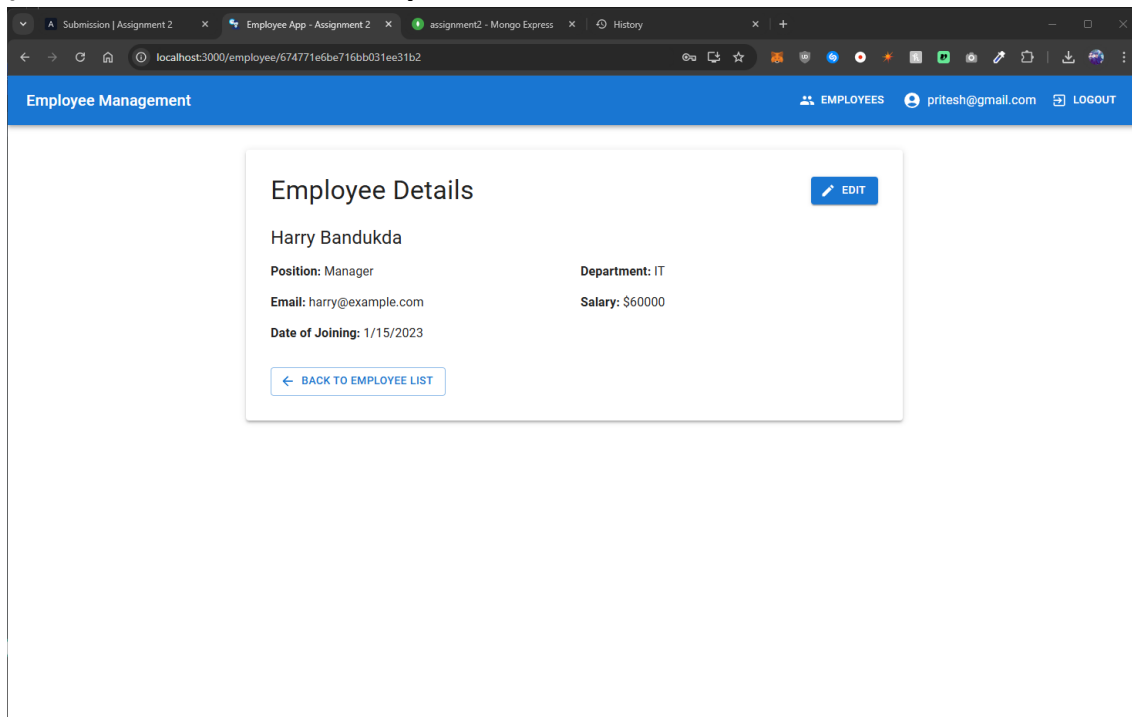
16) Front End → Salman bhai added to List → Salary updated to 200k for Pritesh



The screenshot shows the 'Employee Management' application interface. At the top, there's a blue header with 'Employee Management' and user information. Below the header, there's a section titled 'Employee List' with an 'ADD EMPLOYEE' button. There are search filters for 'Department' and 'Position', and a 'SEARCH' button. The main part of the page is a table listing employees with columns for First Name, Last Name, Email, Position, Department, Salary, Date of Joining, and Actions. The table contains five rows of employee data.

First Name	Last Name	Email	Position	Department	Salary	Date of Joining	Actions
Harry	Bandukda	harry@example.com	Manager	IT	\$60,000	1/15/2023	VIEW UPDATE DELETE
Pritesh	Patel	patel@example.com	Senior Developer	IT	\$200,000	1/15/2024	VIEW UPDATE DELETE
James	Charles	james@example.com	Manager	HR	\$120,000	1/15/2023	VIEW UPDATE DELETE
Navjot	Kaur	nav@example.com	Support	CS	\$55,000	1/15/2024	VIEW UPDATE DELETE
Salman	Khan	sallu@gmail.com	CEO	Manager	\$400,000	10/16/2024	VIEW UPDATE DELETE

17) Front End → View Emp



The screenshot shows the 'Employee Management' application interface. The top header is the same as in the previous screenshot. Below the header, there's a section titled 'Employee Details' with an 'EDIT' button. The details are displayed in a card format, showing the employee's name, position, department, email, salary, and date of joining. There is also a 'BACK TO EMPLOYEE LIST' button.

Employee Details

Harry Bandukda

Position: Manager Department: IT

Email: harry@example.com Salary: \$60000

Date of Joining: 1/15/2023

[← BACK TO EMPLOYEE LIST](#)

18) Search → Dynamically updating position based on data

The screenshot shows a web application titled "Employee Management" with a navigation bar containing "EMPLOYEES", "pritesh@gmail.com", and "LOGOUT". The main content area is titled "Employee List" and features a search bar with a dropdown menu. The dropdown menu is open, showing a list of positions: "All", "CEO", "Manager", "Senior Developer", and "Support". Below the dropdown is a table of employees with columns for Name, Email, Position, Department, Salary, and Date. The table contains five rows of data. Each row has three action buttons: "VIEW", "UPDATE", and "DELETE".

Name	Email	Position	Department	Salary	Date	Actions
Pritesh Patel	patel@example.com	Senior Developer	IT	\$200,000	1/15/2024	VIEW UPDATE DELETE
James Charles	james@example.com	Manager	HR	\$120,000	1/15/2023	VIEW UPDATE DELETE
Navjot Kaur	nav@example.com	Support	CS	\$55,000	1/15/2024	VIEW UPDATE DELETE
Salman Khan	sallu@gmail.com	CEO	Manager	\$400,000	10/16/2024	VIEW UPDATE DELETE

19) Search → Dynamically updating department based on data

The screenshot shows the same "Employee Management" application. The search bar dropdown menu is open, showing a list of departments: "All", "CS", "HR", "IT", and "Manager". Below the dropdown is a table of employees with columns for Name, Email, Position, Department, Salary, and Date. The table contains five rows of data. Each row has three action buttons: "VIEW", "UPDATE", and "DELETE".

Name	Email	Position	Department	Salary	Date	Actions
Harry Bandukda	harry@example.com	Manager	IT	\$60,000	1/15/2023	VIEW UPDATE DELETE
Pritesh Patel	patel@example.com	Senior Developer	IT	\$200,000	1/15/2024	VIEW UPDATE DELETE
James Charles	james@example.com	Manager	HR	\$120,000	1/15/2023	VIEW UPDATE DELETE
Navjot Kaur	nav@example.com	Support	CS	\$55,000	1/15/2024	VIEW UPDATE DELETE
Salman Khan	sallu@gmail.com	CEO	Manager	\$400,000	10/16/2024	VIEW UPDATE DELETE

20) Search → Based on position

The screenshot shows a web application titled "Employee Management" with a navigation bar containing "EMPLOYEES", "pritesh@gmail.com", and "LOGOUT". The main content area is titled "Employee List" and features a search filter for "Position" set to "Senior Developer". A "SEARCH" button is visible. Below the filter, a table displays the search results.

First Name	Last Name	Email	Position	Department	Salary	Date of Joining	Actions
Pritesh	Patel	patel@example.com	Senior Developer	IT	\$200,000	1/15/2024	VIEW UPDATE DELETE

21) Search → Based on Department

The screenshot shows the same "Employee Management" application. The search filter for "Department" is now set to "All". A dropdown menu is open, showing the available options: "All", "CS", "HR", "IT", and "Manager". Below the dropdown, a table displays the search results for all employees.

First Name	Last Name	Email	Position	Department	Salary	Date of Joining	Actions
Harry	Bandukda	harry@example.com	Manager	IT	\$60,000	1/15/2023	VIEW UPDATE DELETE
Pritesh	Patel	patel@example.com	Senior Developer	IT	\$200,000	1/15/2024	VIEW UPDATE DELETE
James	Charles	james@example.com	Manager	HR	\$120,000	1/15/2023	VIEW UPDATE DELETE
Navjot	Kaur	nav@example.com	Support	CS	\$55,000	1/15/2024	VIEW UPDATE DELETE
Salman	Khan	sallu@gmail.com	CEO	Manager	\$400,000	10/16/2024	VIEW UPDATE DELETE

22) Validation → Add Employee

Employee Management

EMPLOYEES admin@employeeemangement.com LOGOUT

Add New Employee

First Name *

213123

This field can only contain letters and spaces.

Last Name *

12312

This field can only contain letters and spaces.

Email *

dsad

Invalid email format.

Position *

21332

This field can only contain letters and spaces.

Department *

312312

This field can only contain letters and spaces.

Salary *

← CANCEL

ADD EMPLOYEE

23) Validation → Edit Employee

Employee Management

EMPLOYEES admin@employeeemangement.com LOGOUT

Edit Employee

First Name *

Jamessad321321

This field can only contain letters and spaces.

Last Name *

Charles2133

This field can only contain letters and spaces.

Email *

jamesexample.com12312

Invalid email format.

Position *

Manager123

This field can only contain letters and spaces.

Department *

HR123

This field can only contain letters and spaces.

Salary *

120000

← CANCEL

UPDATE EMPLOYEE