1. Database Schema for the tables
2. API endpoint for various operation

Run the program

1.run the Database schema script to create the tables

2.run the createCafeData.js for inserting the data into database or extracting the data from database

3.app.js to run the front-end

1.Database schema

CREATE TABLE employees (

id VARCHAR(10) PRIMARY KEY, -- unique employeeid

name VARCHAR(100) NOT NULL, -- name of employee

email\_address VARCHAR(100) NOT NULL UNIQUE, -- rmail address

phone\_number VARCHAR(15) NOT NULL, -- phone number

gender ENUM('Male', 'Female') NOT NULL, -- gender of the employee

cafe\_id UUID, -- foreign key linking to the cafes table

FOREIGN KEY (cafe\_id) REFERENCES cafes(id)

);

CREATE TABLE cafes (

id UUID PRIMARY KEY DEFAULT uuid\_generate\_v4(), -- uuid for the cafe

name VARCHAR(100) NOT NULL, -- name of the café

description TEXT NOT NULL, -- description of the café

logo

location VARCHAR(100) NOT NULL -- Location of the café

);

2. API endpoint for various operation

API Endpoint

**Cafe**

**GET (Request)**

GET /cafes?location=Jurong West

Response

[

{

"name": "Cafe A",

"description": "Cozy café with a great view of XXX reservoir ",

"employees": 5,

"logo": "logo\_image\_base64", // Optional

"location": "Jurong West",

"id": "UUID" // 123

}

]

**Employee**

GET /employees?cafe= Jurong West

[

{

"id": "UI1234567",

"name": "Jarvis",

"email\_address": "jarvis@cafe.com",

"phone\_number": "88881234",

"days\_worked": 120,

"cafe": "Jurong XXX"

}

]

**POST (CREATE)**

**/cafe**

POST /cafe

Content-Type: application/json

{

"name": "New Cafe",

"description": "A lovely café in the busy office area",

"logo": "base64\_encoded\_logo\_image", // Optional

"location": "Reffles XXX"

}

**/employee**

POST /employee

Content-Type: application/json

{

"id": " UI1234567",

"name": "David",

"email\_address": "david.luo@ cafe.com",

"phone\_number": "912345678",

"gender": “male",

"cafe\_id": "UUID",

"start\_date": "2025-01-01"

}

**PUT (Update)**

**Cafe details**

**PUT /cafe**

Content-Type: application/json

{

"id": "UUID",

"name": "Updated Café Name",

"description": "Updated description",

"logo": "new\_base64\_logo",

"location": "Updated Location"

}

**Employee**

PUT /employee

Content-Type: application/json

{

"id": "UI1234567",

"name": "David",

"email\_address": "david@newemail.com",

"phone\_number": "912345680",

"gender": "Male",

"cafe\_id": "NewCafeUUID",

"start\_date": "2023-05-01"

}

**DELETE**

DELETE /cafe

Content-Type: application/json

{

"id": "UUID” //Eg. 123 Jurong XXX branch

}

DELETE /employee

Content-Type: application/json

{

"id": "UI1234567"

}