# **City Metrics Tracker**

This application allows users to track various metrics for different cities within the hospitality industry. It includes both frontend and backend components to visualize and manage data stored in a MongoDB database.

Extract the content of palm\_burj\_task.rar

open the project either in terminal - By Shift + right click then open terminal or in

vscode

## **Frontend**

The frontend of the application is built using React and utilizes various chart components from react-chartjs-2 to display metrics for net sale, net expense, and target remaining by city.

#### **Prerequisites**

1.Node.js

2.npm (Node Package Manager)

#### **Running the Frontend Locally**

Navigate to the frontend directory:

use

cd frontend

in cli or project's vscode terminal

Install dependencies:

Use

npm install

in cli or the project's vscode terminal

Start the development server:

Use

npm start

in cli or the project's vscode terminal

Access the application at [http://localhost:3000](http://localhost:3000/) in your web browser.

## **Backend**

The backend of the application is built using Flask, providing endpoints to fetch data from a MongoDB database based on specified parameters.

Prerequisites

1.Python (3.6 or higher)

2.Flask

3.pymongo

4.Flask-CORS

**Running the Backend Locally**

Ensure you have Python installed on your machine.

Install dependencies using pip:

Use

pip install -r requirements.txt

in cli or project's vscode terminal

Navigate to the backend directory:

cd backend

in cli or vscode terminal

Run the Flask application:

flask --app app.py run

in cli or project's vscode terminal

The backend server should now be running at [http://localhost:5000](http://localhost:5000/).

## **API Endpoints**

GET /data: Fetches data for a specified city for the past 15 days.

Parameters:

city: The name of the city for which data is requested.

Response:

Success: Returns JSON data containing metrics for the specified city.

Error: Returns JSON error message if any issue occurs during data retrieval.

Note Ensure that the MongoDB connection string is correctly configured in the backend code (app.py). Also, make sure the MongoDB server is running and accessible from the backend application.

With both frontend and backend running, users can interact with the City Metrics Tracker application to visualize and analyze data for different cities in the hospitality industry.