Weather App 1.0

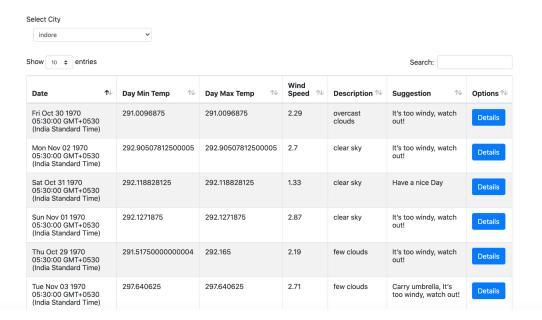
Author - Sanil Bagzai

Index

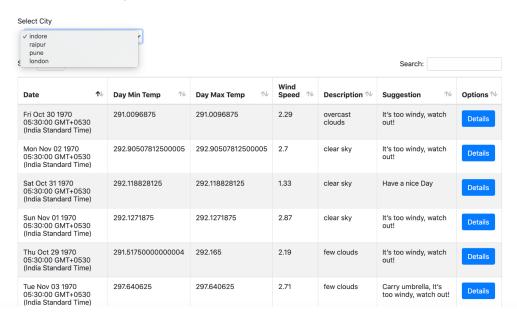
1. App Shots	3
1.1. Default Screen	3
1.2. Can select City	3
1.3. Search	4
1.4. Chart	4
1.5. Chart Options	5
1.6. View Data	5
2. Diagrams	6
2.1. Microservice Architecture	6
3. Project Structure	7
3.1. Weather (Backend) Service	7
3.2. Weather UI Service	8
4. Design Patterns Used	8
4.1. Factory Design Pattern	8
5. Deployment	9
5.1. Weather Service	9
5.1.1. Code Base	9
5.1.1.1. Git Url	9
5.1.2. Clone code	9
5.1.3. Dockerfile	9
5.1.4. Command	9
5.1.4.1. Build docker image	9
5.2. Weather-ui Service	9
5.2.1. Code Base	9
5.2.1.1. Git Url 5.2.2. Clone code	9
5.2.3. Dockerfile	10
5.2.4. Command	10
5.2.4.1. Build docker image	10
6. Deployment Script	10
6.1. Deploy using docker	10
7. Swagger Document	10

1. App Shots

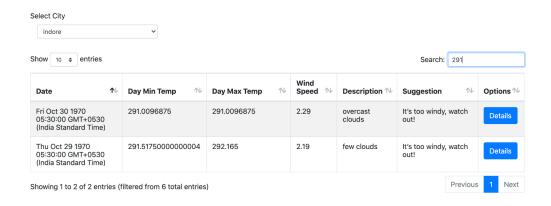
1.1. Default Screen



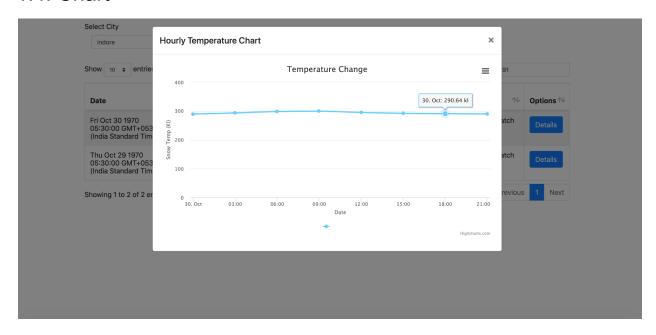
1.2. Can select City



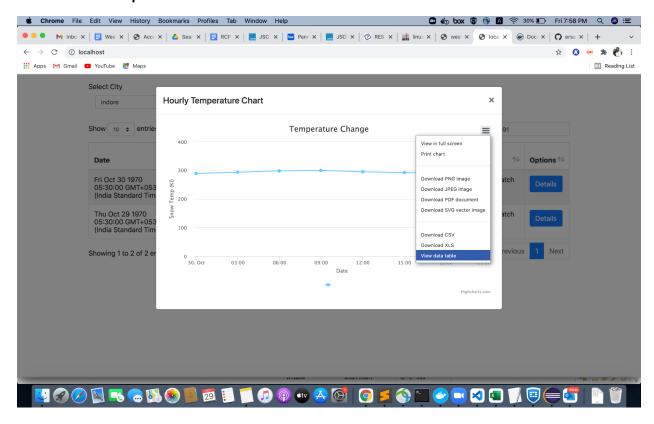
1.3. Search



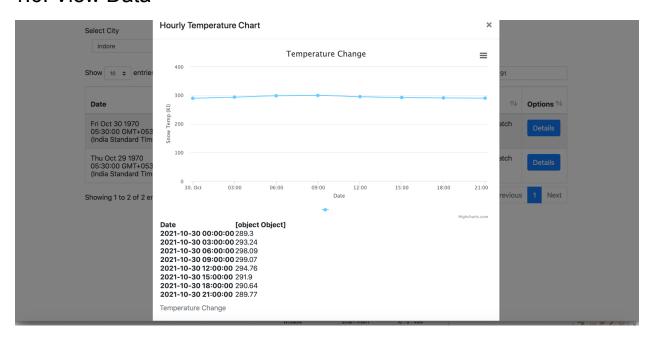
1.4. Chart



1.5. Chart Options

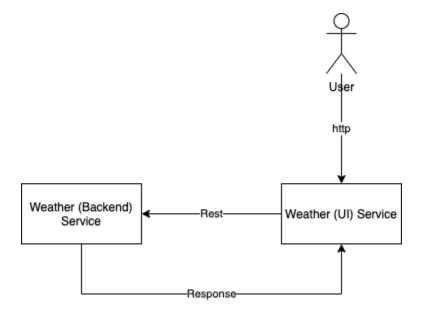


1.6. View Data



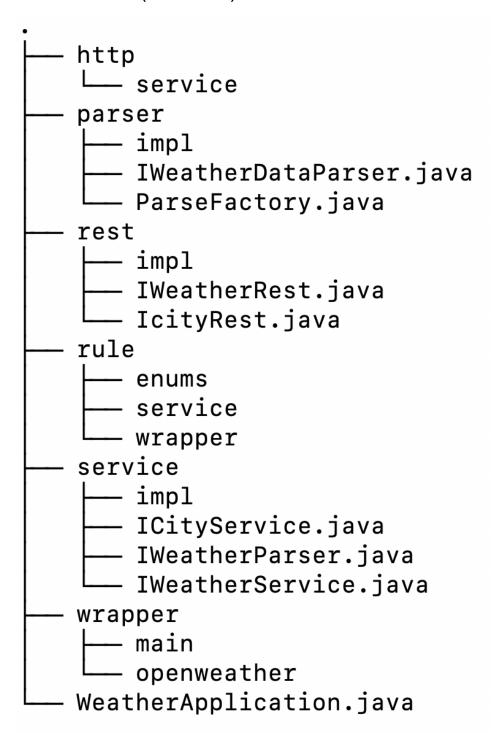
2. Diagrams

2.1. Microservice Architecture

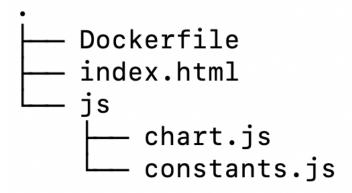


3. Project Structure

3.1. Weather (Backend) Service

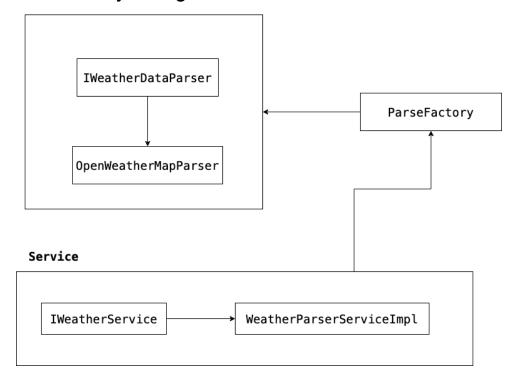


3.2. Weather UI Service



4. Design Patterns Used

4.1. Factory Design Pattern



5. Deployment

5.1. Weather Service

5.1.1. Code Base

5.1.1.1. Git Url

https://github.com/ersanilbagzai/weather.git

5.1.2. Clone code

git clone https://github.com/ersanilbagzai/weather.git

5.1.3. Dockerfile

```
FROM openjdk:8-jre-alpine3.9

RUN mkdir -p /opt/weather/

COPY target/weather-0.0.1-SNAPSHOT.jar /opt/weather/

CMD ["java","-jar","/opt/weather/weather-0.0.1-SNAPSHOT.jar"]
```

5.1.4. Command

5.1.4.1. Build docker image

```
docker build . --tag=sanilbagzai/weather:2.0
```

5.2. Weather-ui Service

5.2.1. Code Base

5.2.1.1. Git Url

https://github.com/ersanilbagzai/weather.git

5.2.2. Clone code

```
git clone https://github.com/ersanilbagzai/weather.git
```

5.2.3. Dockerfile

```
FROM nginx

COPY index.html /usr/share/nginx/html

RUN mkdir -p /usr/share/nginx/html/js

COPY js /usr/share/nginx/html/js/
```

5.2.4. Command

5.2.4.1. Build docker image

```
docker build . --tag=sanilbagzai/weather-ui:2.0
```

6. Deployment Script

6.1. Deploy using docker

```
docker run -dit -p 9006:9006 --name=weather sanilbagzai/weather:2.0 docker run -dit -p 80:80 --link weather:weather sanilbagzai/weather-ui:2.0
```

Run the deployment script using sh deployUsingDocker.sh

After running the script go to browser and access the app using following url http://localhost

7. Swagger Document

Available at the following link

https://github.com/ersanilbagzai/weather/blob/main/weather/docs/index.html