# Weather App 1.0

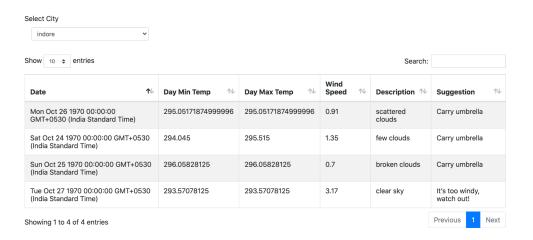
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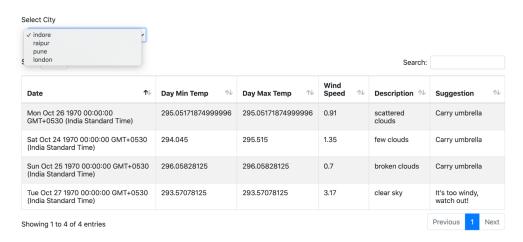
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# 1. App Shots

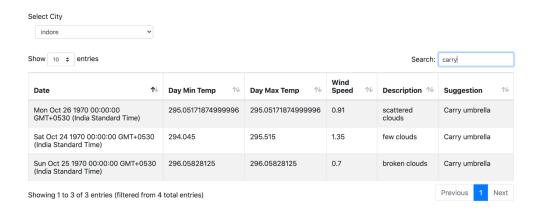
#### 1.1. Default Screen



### 1.2. Can select City

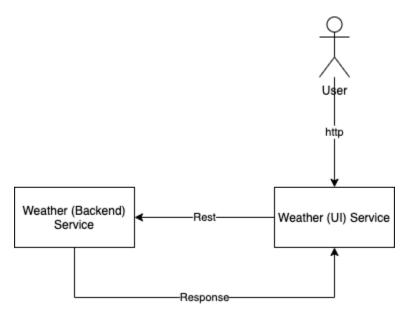


### 1.3. Search



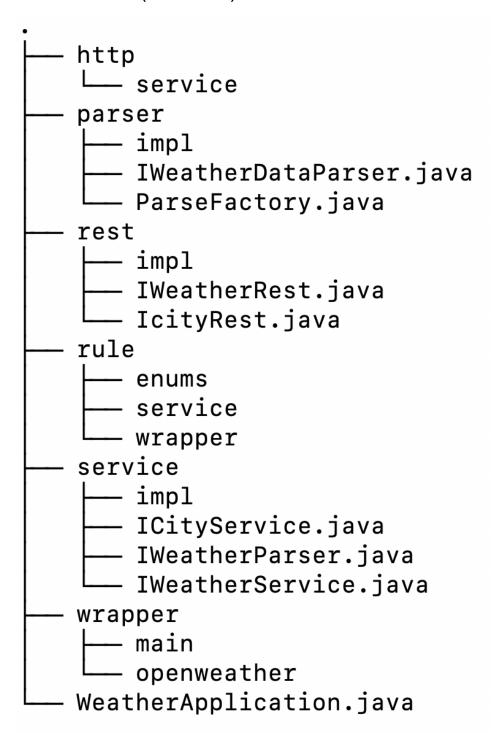
# 2. Diagrams

### 2.1. Microservice Architecture



## 3. Project Structure

### 3.1. Weather (Backend) Service

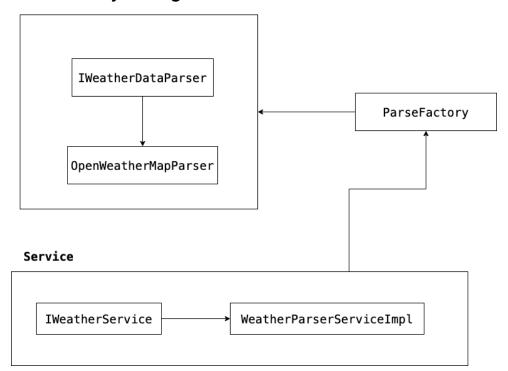


### 3.2. Weather UI Service



# 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:1.0
```

### 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
```

#### 5.2.4. Command

#### 5.2.4.1. Build docker image

```
docker build . --tag=sanilbagzai/weather-ui:1.0
```

# 6. Deployment Script

### 6.1. Deploy using docker

```
cd weather
mvn clean install
docker run -dit -p 8080:8080 --name=weather sanilbagzai/weather:1.0

cd ../weather-ui
docker run -dit -p 80:80 --link weather:weather sanilbagzai/weather-ui:1.0
```

Run the deployment script using sh deployUsingDocker.sh

After running the script go to browser and access the app using following url <a href="http://localhost">http://localhost</a>