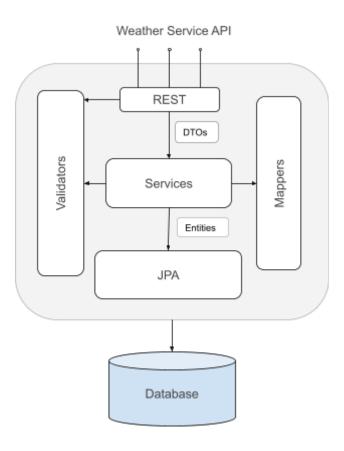
# Weather Service

## Summary

This document provides details of "weather web application", intended to serve weather reports to its customers via REST endpoints. The REST endpoints provide the ability to add, query and delete weather data. The application has been developed using Spring Boot and JDK 1.8.

### Design



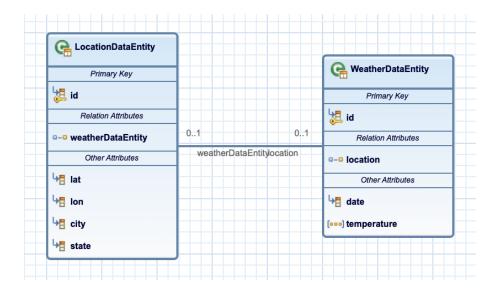
# Tech Stack / Dependencies

REST	Spring controller		
Persistence Layer	Spring JPA		
Database	H2 Database		
Validation	Apache Commons Validator		
Unit Testing	JUnit		
Logging	SLF4J		
REST Client	Postman		

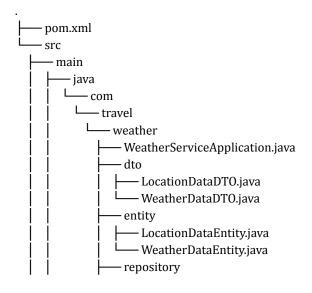
## **REST Endpoints**

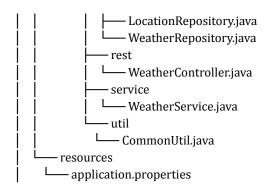
Method	Functionality	Endpoints	Response	Validations
POST	Adding new weather data	<host>/weather</host>	201 OK Header: location = <host>/weather/{id}</host>	400 Id already exixts Check for valid values ID, City, Date, Lat, Lon
GET	Returning all the weather data	<host>/weather</host>	200 OK In ASC order of ID	
GET	Returning the weather data filtered by date	<host>/weather?dat e={date}</host>	200 OK	Check for valid value of Date
DELETE	Erasing all the weather data	<host>/erase</host>	200 OK	

#### ER Diagram



#### Folder Structure





### References

- 1. <a href="https://spring.io/guides/tutorials/rest/">https://spring.io/guides/tutorials/rest/</a>
- 2. <a href="https://commons.apache.org/proper/commons-validator/">https://commons.apache.org/proper/commons-validator/</a>
- 3. <a href="http://modelmapper.org/getting-started/">http://modelmapper.org/getting-started/</a>
- 4. <a href="https://www.baeldung.com/jpa-one-to-one">https://www.baeldung.com/jpa-one-to-one</a>