

Oddle Weather App

1. Technology stack:

SpringBoot: SpringMVC with Thymeleaf, Spring RESTful
Swagger: for MVC request information and RESTful API documentation
Database: H2
Build tool: Maven

2. Instruction

- The database is H2, so you not need to install any DBMS. Please change the path to the database(if you want) in SpringBoot configuration file (application.yml), currently it is ~/weatherApp

```
###
# Database Settings
###
spring:
  datasource:
    url: jdbc:h2:~/weatherApp;MV_STORE=FALSE;DB_CLOSE_DELAY=-1;DB_CLOSE_ON_EXIT=FALSE
    platform: h2
    username: sa
    password:
    driverClassName: org.h2.Driver
  jpa:
    properties:
      hibernate:
        show_sql: true
        format_sql: true
```

English Preferences Tools Help

Login

Saved Settings: Generic H2 (Embedded)

Setting Name: Generic H2 (Embedded) Save Reset

Driver Class: org.h2.Driver

JDBC URL: jdbc:h2:~/weatherApp

User Name: sa

Password:

Create Test Connection

- The database management is also available via path: <http://localhost:8080/console>
- Swagger for expose RESTful API, the document can be accessed after deployment via path: <http://localhost:8080/swagger-ui.html>. You can execute the RESTful API here also.

The screenshot displays the Swagger UI interface. At the top, there's a green header with the Swagger logo, a dropdown menu set to 'default (/v2/api-docs)', and an 'Explore' button. Below the header, the title 'Api Documentation' is followed by 'Api Documentation' and 'Apache 2.0'. The main content area lists two API groups: 'basic-error-controller : Basic Error Controller' and 'weather-controller : Weather Controller'. Each group has 'Show/Hide', 'List Operations', and 'Expand Operations' links. Under 'weather-controller', four operations are listed: GET / (home), GET /home (home), POST /home/search (search), and GET /home/showAll (showAll). Below this, the 'weather-rest : Weather Rest' group is shown with two operations: POST /api/search (search) and GET /api/showAll (showAll). At the bottom, a status bar indicates '[BASE URL: / , API VERSION: 1.0]'.

To bootstrap the application, please use maven command: `mvn spring-boot:run`

In a mean time, I do not focus too much about the Frontend part.

That's all, thank you.

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