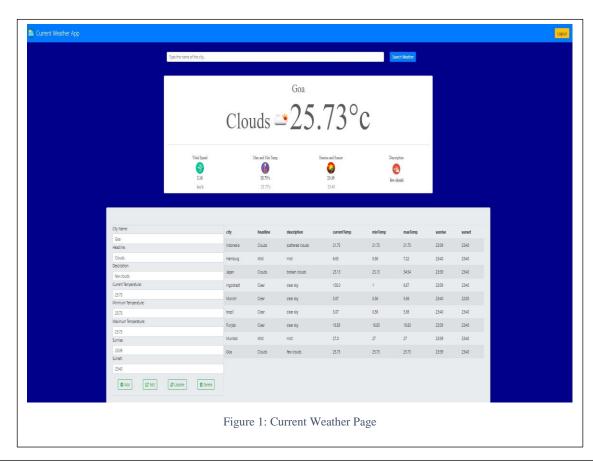
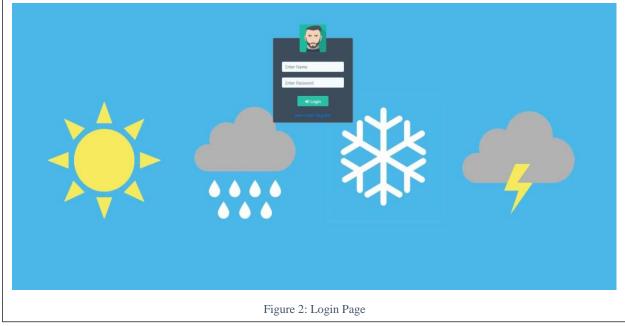
# Current Weather App

## Description

This app is built using Java Spring Boot, Hibernate, MySql DB and Bootstrap, CSS. It can be used to check real time weather and also store the information in the database.





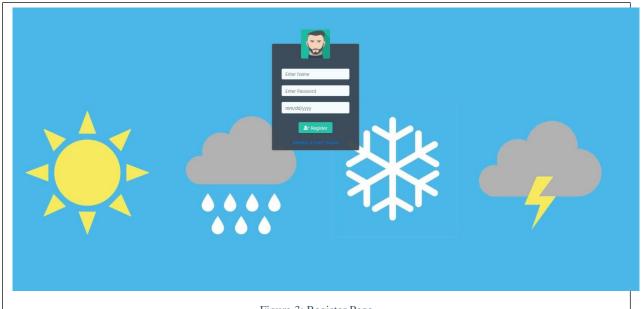


Figure 3: Register Page

## Functionalities Implemented

- User Related
  - User Registration (username, password and date of birth)
  - User Login (username and password)
  - Validation of user inputs
- Weather Related
  - Search for weather based on City name located anywhere in the world
  - History table
  - CRUD operations buttons for edit, update, delete and adding city
- Database
  - One table for weather with City Name, Weather Description, Current Temperature, Min Temperature, Max Temperature, Sunrise and Sunset columns Unique constraint: City name
  - Second table for user details with Username, Password and Date of Birth columns *Unique constraint:* Combined on Username and Date of Birth

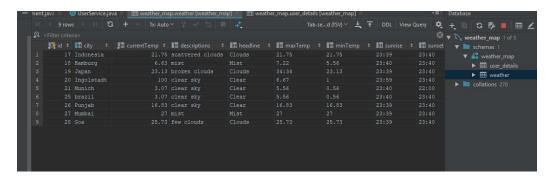


Figure 4: Weather Condition Database Table

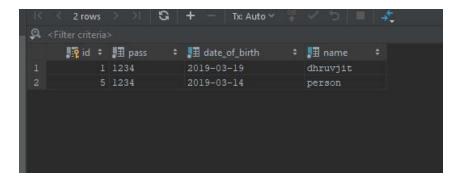


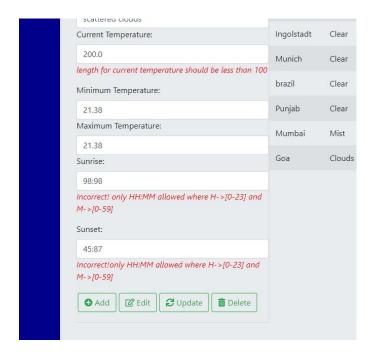
Figure 5: User Details Database Table

- o CRUD Operations and History Table:
  - After searching for city name, user can also add it in database. User can even edit, delete and update the details if he wishes to change it in database



#### Validation

- Validations are configured on login and registration screen
- Validation is also configured on three fields of the history table i.e. Current Temperature, Sunrise and Sunset. An e.g. is depicted below as per requirements



• The webpage will also redirect to not found page if the city name is incorrect

### Oops! Weather not so good!

404 City Not Found

Sorry, an error has occured, Requested city not found! Press back button and re-type correct name



- o Logout
- A logout screen is also implemented for user if we wishes to end the session

You are Successfully Logged Out!

To login again click here: User Signin

### Functionalities Not Implemented:

Considering the Time constraint below mentioned things were not implemented:

- Future development task: Database table to have relations to do the search based on User and city
- Junit testing: I wished to use Mockito for my purpose and however due to occupied schedule this
  last week I spent too many hours understanding the framework and trying it out, however I
  couldn't get it to work for my implemented services in time. I have still left some unfinished code
  in the test repo of the project. However I got to learn a lot regarding testing with this task which
  I look forward to try out on other projects.

### Bugs:

 Tried a lot to end browser session after logout so that user cannot press back button to go to same page. But the solutions I tried don't work due to strange reasons. I tried many different techniques but still this bug lets you to go back on previous page by just pressing back button after every action e.g. login, logout n such