**Task Assignment – 2**

Create a Java application using Spring Boot obtains weather data for:

- Campbell, CA,   
- Omaha, NE,   
- Austin, TX,  
- Niseko, Japan,  
- Nara, Japan and  
- Jakarta, Indonesia

Display the weather results in a table or list and omit any locations that fail to return data. Store the result data in a model, store it to Mongo as forecast of the day, and populate the record to UI using [thymeleaf](https://www.thymeleaf.org/). Use a responsive framework ie. Bootstrap. Log all parameters passed to server. Subsequent call to display the weather results should check whether the today forecast record exists in database before triggering another REST API call to Darksky. Housekeep forecast records that already 3 days old.

**Thing to take note:**  
a. Use appropriate variable names & comments & file structures.   
b. Create a good UI Interface.   
c. Use proper configuration / properties.   
d. Using latest stable maven library is desired.  
e. Providing working unit testing and coverage is a plus.   
**f.** Creativity is encouraged.

#### Details

The [Darksky](https://darksky.net/dev) requires developer [registration](https://darksky.net/dev/register) to leverage their free API Upon registration you will receive a key, which is required for subsequent requests. Do not use any libraries listed at <https://darksky.net/dev/docs/libraries>, instead, parse the response using any JSON library.

**Resources :  
A. Java**Use OpenJDK 8 or OpenJDK 11.

**B. Bootstrap**<https://getbootstrap.com/>

**C. IDE**Use [Springsource(Eclipse)](https://spring.io/tools) or [IntellJ Community Edition](https://www.jetbrains.com/idea/download/#section=windows)

**D. MongoDB**  
Use [mongolabs](https://mlab.com/home) free tier as the database.

#### Submission Details

1. Submit the codes by uploading it to your Github account and provide us the Github URL.
2. Provide us the high level design of your answer
3. Provide us with explanation on how to use your web application.
4. Provide your token to Darksky, Mongolabs, etc.
5. Please do not attach your code in email because it will be removed by our email policy.