Title: JavaDeveloperTask

Technologies Used:

1. Spring Boot (3.2.3), Java (21)
2. Apache Camel
3. Thymeleaf
4. log4j
5. Lombok

Purpose of the project:

1. Connect to FTP server and read file data.csv
2. Connect to two api’s with the cities given in data.csv file.
3. Combine the response from the above mentioned apis and create a XML file.
4. Store the XML file in FTP Server.

1st part – Automated

Approach 1:

When the project starts a camel route is created. Then it makes a connection to the FTP server, reads the csv file to process it and converts it in a Array List. Data from the Array List is then used to call 2 APIs and responses from those are stored in XML files with country name and time stamp. This camel route is called after a fixed time, as an example 6 hours.

Approach 2:

User can hit the rest API: <http://localhost:8080/api/generate-xml-for-all>

It will do all the above-mentioned tasks after hitting the API.

* Necessary information is saved in to a log file in logs folder of the project named application.log.
* All the configuration properties are defined in application.properties

2nd part – Manual

User hits the URL : <http://localhost:8080/>

A UI appears prompting user to select country from drop down, write city in a text box and select Date from date picker. After selecting required fields which is country and city, user needs to click on the button submit. Then a selection of data is shown to user and user can click on export button. If successful then user is prompt to a new screen where the generated XML file can be seen