**Code Flow diagram:**

**Steps:**

1. Once we read from Json file we stored the value different ways like

In Database, Cache memory using ( HashMap, Arraylist… etc)

1. After stored the value as per business requirement, we need to fetch record.
2. When we expose any service using rest API, we need to create service with operation name to use the url.
3. Once the operation name design we need to send the request through url
4. Like <https://localhost(servername)/port/operation> name
5. Covered all possible url to fetch the data
6. example of test url

http://localhost:8080/flags/getflag?continent=&country=USA

http://localhost:8080/flags/getflag?continent=Africa&country=

http://localhost:8080/flags/getflag?continent=&country=

<http://localhost:8080/flags/getflag?continent=Africa&country=Ethiopia>

1. When we send any (Request +Credential) to fetch the response based on the operation.

**Details code flow:**

1. Once we read Json file from resource folder (continents.json) using inputstream
2. After getting the value, it converts to list.
3. Created the service called CountryServices toget the Flags based on the user inputs.
4. When we filtered the data using user inputs and forming response entity based on the input data.

**Note:**

1. This code coved Junit test case
2. Data source and database properties commented due to running the application
3. Logger implementation
4. Performance tuning.
5. Design pattern (singleton design) also implemented.
6. Database properties added (to read the value from database if we get the database details) but this code also commented due running purpose of application.