Bringing the Pricing serice up

1. Install redis & run stand along (download tar+make/homebrew/docker). 2 step instruction for docker
    a. docker pull redis:4.0
    b. docker images (get the container ID) // docker images | grep redis
    c. docker run -p 6379:6379 < CONTAINER ID e.g. bfcb1f6df2db. >
2. Star the application
    a. `pricing-service$$ java -jar pricing-service.jar`
3. `[Optional-If you like to see what is happening with REDIS Queues as you execute the the api-s below, you could do >>redis-cli monitor`

Endpoints & Swagger UI:

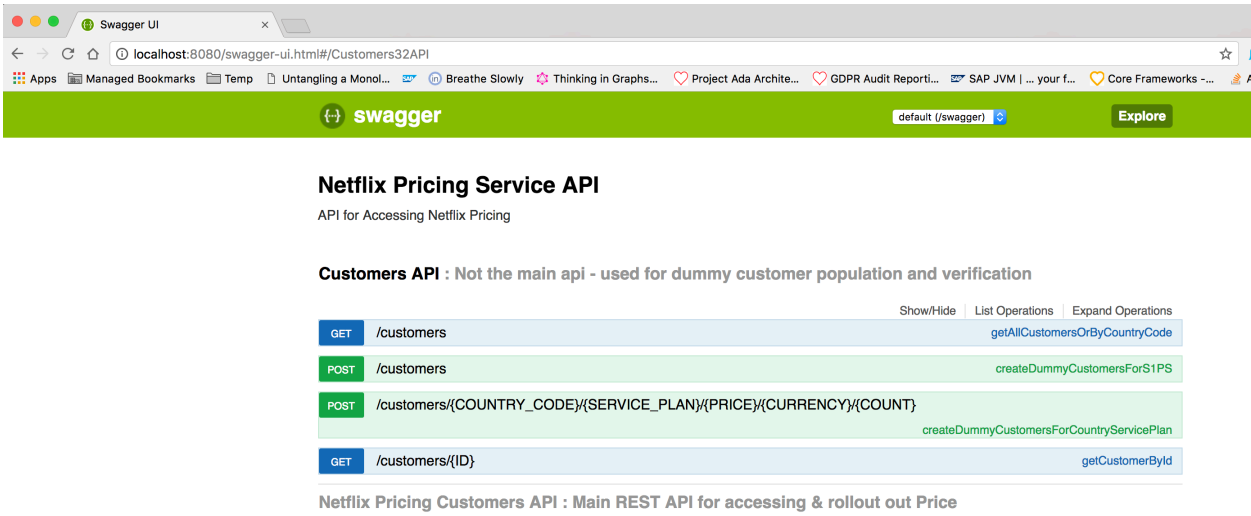
1. **Swagger UI in the App:**
    a. Use Swagger UI or CURL for API Calls (URL: http://localhost:8080/swagger-ui.html (Swagger UI))

2. **Generate Seed Customer Dataset:**

    a. POST/Customer generates 100 records per service plan for 2 countries (US/DE), totaling 600 Records. There is randomness in unique keys ID, so you can call as many times as you like.
    b. Either curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: */*'
'http://localhost:8080/customers'
```

    c. *or Swagger UI* do POST/Customers & click tryout.
    G



3. [Optional]For generating more targeted data set, use the the other Post , where you could pass the country code (2 digit country iso code, SP1S/SP2S/SP4S for service plan,

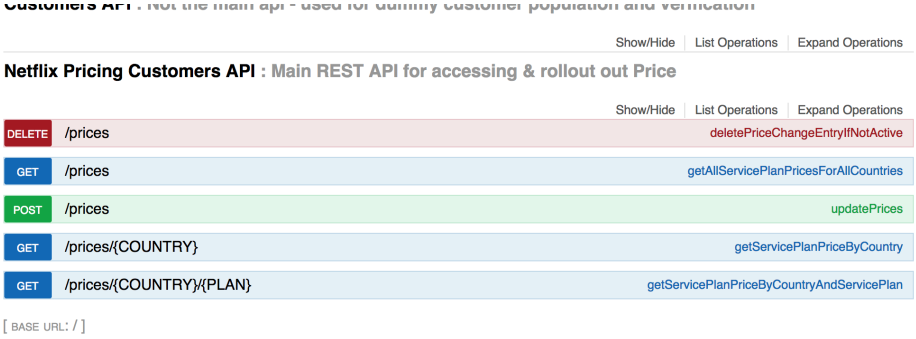
any price (old price in customer record), currency is a 3 letter code (USD/EUR), count is the number of records you want to generate

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: */*'
'http://localhost:8080/customers/IN/SP1S/299.99/INR/399'
```

4. Make API calls to update price: Keep note of country/service plan and the price you apply, so you could verify later
    a. You can make price change for one country/one plan or to a group of plans across countries. Effective date is the time at which price must be applied. Validation is disabled (Effective date can be in the past)
    b. Curl:

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '[ \
   { \
     "countryISOCode": "US", \
     "currency": "USD", \
     "effectiveDate": "2018-05-09T23:41:24.618Z", \
     "price": 12.99, \
     "servicePlan": "SP1S" \
   }, \
 { \
     "countryISOCode": "US", \
     "currency": "USD", \
     "effectiveDate": "2018-05-09T23:41:24.618Z", \
     "price": 13.99, \
     "servicePlan": "SP2S" \
   }, \
 { \
     "countryISOCode": "US", \
     "currency": "USD", \
     "effectiveDate": "2018-05-09T23:41:24.618Z", \
     "price": 13.99, \
     "servicePlan": "SP2S" \
   }, \
 { \
     "countryISOCode": "DE", \
     "currency": "EUR", \
     "effectiveDate": "2018-05-09T23:41:24.618Z", \
     "price": 11.98, \
     "servicePlan": "SP1S" \
   } \
  \
 ] \
 ' 'http://localhost:8080/prices'
```

a. Swagger UI



b. Price change request body

a. One change:

```
[
 {
  "countryISOCode": "US",
  "currency": "USD",
  "effectiveDate": "2018-05-09T23:41:24.618Z",
  "price": 12.99,
  "servicePlan": "SP1S"
 },
```

b. Multiple Change

```
[
 {
  "countryISOCode": "US",
  "currency": "USD",
  "effectiveDate": "2018-05-09T23:41:24.618Z",
  "price": 12.99,
  "servicePlan": "SP1S"
 },
{
  "countryISOCode": "US",
  "currency": "USD",
  "effectiveDate": "2018-05-09T23:41:24.618Z",
  "price": 13.99,
  "servicePlan": "SP2S"
 },
{
  "countryISOCode": "DE",
  "currency": "EUR",
  "effectiveDate": "2018-05-09T23:41:24.618Z",
  "price": 11.98,
  "servicePlan": "SP1S"
 }
]
```

5. Make API calls to the Pricng server (from CURL or UI) to verify if the updated price is marked as the active price in the Pricing Service side: GET /prices/{COUNTRY}. You should see the current price as active. (There could be upto 5 second delay as this flag is updated by a scheduled job).

If you apply the price for the future date, the price won't be shown as active. For the tests, consider using the current or past date/time.

```
curl –X GET ––header 'Accept: application/json'
'http://localhost:8080/prices/US?active=true'
```

6. Now go the customer pricing side. Make API calls from CURL or UI to verify if the updated price is shown for the customer (GET /customers)

```
curl –X GET ––header 'Accept: application/json'
'http://localhost:8080/customers?countryCode=US'
```

If you want to check for a specific customer, you could also use the GET `/customers/{ID}` endpoint (Before making the change get the customer id) to see the change

That's it ☺