# Assumptions

1. Product can be added by the seller only.
2. One product can have multiple sellers.
3. There can be more than 1 sellers with the same name. Email of the seller needs to be unique.
4. One seller can sell the same named product with 2 different prices.
5. Seller can be enrolled, unenrolled or paused.
6. Seller can be enrolled in multiple programs. Eg: Shipping Program, Payment Program.

# Testing scenarios

1. Product is **eligible** for shipping program:
   1. Seller is enrolled.
   2. Product is from the pre-approved category.
   3. Price of the product is greater than the min\_price criteria
2. Product is **not eligible** for shipping program:
   1. Seller is not enrolled **and/or**
   2. Category is not from the pre-approved list **or**
   3. The price of a product is above the API request but below the min\_price.
3. **Not found request error** scenarios:
   1. Seller not found for the given name
   2. Product not found for the given product name
4. **Bad request** error scenarios:
   1. Multiple sellers found for the given name

# How to run the application:

1. Clone the git repo
2. Add the project as a “Maven Project”
3. Set active profile to “local”
4. <http://localhost:8080/swagger-ui.html#/product>
5. Try the test data for various results.
6. To add more test data use “data.sql” file.
7. To connect to the h2 database : <http://localhost:8080/h2-console/>
   1. JDBC Url: jdbc:h2:mem:testdb
   2. User name: admin

# Test data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Product Name** | **Seller Name** | **Category** | **Price** | **Outcome** |
| Honda | Tom | 2 | 2000 | Eligible |
| Honda | Nick | 2 | 2000 | Not Eligible |
| Honda | John(multiple) | 2 | 2000 | 400 - Multiple |
| Canon | Alice(unenrolled) | 3 | 700 | Not Eligible |
| Rolex | Tom | 5(Not approved) | 700 | Not eligible |
| Civic(not available) | Tom | 2 | 2000 | 404 – Not found |
| Honda | Tom1(invalid) | 2 | 2000 | 404 – Not found |