# db-geolocator-api

This rest web service allows you to

- Add a shop in application memory array with its location

- Find the nearest shop if we supply the location as longitude and latitude

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Platform:

Gradle 2.3

Java 8

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Build

Since it is gradle based java application use the following to package it in a jar.

gradle build

To build without running tests

gradle build -x test

On successful build the jar can be found at build/libs/ path.

Or One can Use Eclipse/ STS Plugin gor building and running

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Run

Running the application is as easy as building and a one step process. Once you have the jar it can be run with the following command.

java -jar path/to/jar/db-retail-manager-0.1.0.jar

During development the following command will be useful to run without jar.

gradle run

You will see the following message after a successful start up.

:: Spring Boot :: (v1.4.0.RELEASE)

Application has started successfully at http://localhost:8080/api/

Test

gradle test

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Google Server side API

This application uses Google's GeoCoding API to locate a shop and find longitude and latitude providing it to rest APIs to add a shop and get the nearest shop. Here are they -

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User Can Use POSTMAN Client To Test the Service

Add Shop

This api adds a shop to the in-memory database.

URI : /shop/addShop

REQUEST BODY :

{

"shopName": "Reliance Digital",

"shopAddress": {

"number": "Drishti Plaza",

"postCode": "462042"

}

}

HTTP METHOD :POST

HTTP RESPONSE : 201 OK

RESPONSE BODY :

{"runningStatus":true}

e.g - http://localhost:8080/api/shop/addShop

Get Nearest Shop

To find the nearest shop to the location (latitude, longitude) passed in the request parameter customerLatitude, customerLongitude

URI - /shop/getshop

REQUEST PARAMS - customerLatitude, customerLongitude

HTTP METHOD - GET

HTTP RESPONSE - 200 OK

RESPONSE BODY -

{"shopName":"Jumbo","shopAddress":{"number":"Groenhof","postCode":"1186"},"shopLongitude":4.870502699999999,"shopLattitude":52.288631}