**Java puzzle**

Endpoints:

● GET /v1/cartypes/manufacturer

○ locale (*accepts any locale)*

○ wa\_key

● GET /v1/cartypes/maintypes

○ manufacturer *(accepts manufacturer codes)*

○ locale (*accepts any locale)*

○ wa\_key

● GET /v1/cartypes/builtdates

○ manufacturer *(accepts manufacturer codes)*

○ maintype(*accepts maintypecodes)*

○ locale (*accepts any locale)*

○ wa\_key

Apologies for not using Java, I have used Java for GUI testing with automation tools and I have not used Java for web service testing.

I have done both GUI and web service testing in C# and hence was comfortable using it here.

The code which I have written is in C# using Visual Studio as an IDE , Specflow to support BDD and RestSharp to handle HTTP methods.

My solution contains folders as below:

1. Feature file which contains test cases in BDD style
2. Step definition which contains implementation of the test cases
3. Helper folder which contains generic methods which can be used through out the solution
4. App config contains app url and key

Below are few checks that can be performed :

1. Verify response passing valid parameters
2. Verify response passing invalid[null or empty] parameters
3. Verify response passing invalid key
4. Verify response passing parameter which does not exists in the database
5. Verify response with really long parameter name
6. Verify response passing special characters with the parameter name
7. Verify validation message when required parameters are not supplied
8. Verify response contains relevant data[in this case returning model names which belongs to the specific manufacturer only and the build date specific to model]
9. Verify response data are in proper format[data type]
10. Verify the data in the database matches with the response data
11. Verify the order of the data in the response