

HOMework 04

FormulaAPI INFO --> <http://ergast.com/mrd/methods/drivers/>

- It's for historical formula one race information
- In this particular api , it decided to give you ml by default for response type and In this particular api , it decided to give you json if you add .json at the end of url

FOR EXAMPLE

- <http://ergast.com/api/f1/drivers.json> ---> return JSON

BASE URL —> <http://ergast.com/api/f1/>

TASK 1 : Solve same task with 4 different way

- Given accept type is json
 - And path param driverId is alonso
 - When user send request /drivers/{driverId}.json
 - Then verify status code is 200
 - And content type is application/json; charset=utf-8
 - And total is 1
 - And givenName is Fernando
 - And familyName is Alonso
 - And nationality is Spanish

- Use JSONPATH

```
int total = jsonpath.getInt("pathOfField")
```

- Use HAMCREST MATCHERS

```
then().body(.....)
```

Print givenName of Driver by using extract method after HamCrest

- Convert Driver information to Java Structure

```
Map<String,Object> driverMap=jsonpath.getMap("pathOfDriver")
```

- Convert Driver information POJO Class

```
Driver driver=getObject("pathOfDriver",Driver.class)
```

TASK 2 : Solve same task with 4 different way

- Use JSONPATH

```
int total = jsonpath.getInt("pathOfField")
```

- Use HAMCREST MATCHERS

```
then().body(.....)
```

Print all names of constructor by using extract method after HamCrest

- Convert Constructor information to Java Structure

```
List<Map<String,Object>> constructorMap=jsonpath.getList("pathOfConsts");
```

- Convert Constructor information POJO Class

```
List<ConstructorPOJO>
```

```
constr=getObject("pathOfConstr",ConstructorPOJO.class)
```

NOTE

—> There is a class in JAVA That's why give your class name **ConstrutorPOJO** to separate from existing one. Wrong imports may cause issue

- Given accept type is json
- When user send request /constructorStandings/1/constructors.json
- Then verify status code is 200
- And content type is application/json; charset=utf-8
- And total is 17
- And limit is 30
- And each constructor has constructorId
- And constructor has name
- And size of constructor is 17
- And constructor IDs has "benetton", "mercedes", "team_lotus"

TASK 1 POSTMAN

Formula API / GET /driver/alonso

GET http://ergast.com/api/f1/drivers/alonso.json Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

KEY	VALUE	DESCRIPTION	...	Bulk Edit
id	alonso	Description		

Body Cookies Headers (9) Test Results Status: 200 OK Time: 142 ms Size: 752 B Save Response

Pretty Raw Preview Visualize JSON

```
1  "MRData": {
2    "xmlns": "http://ergast.com/mrd/1.5",
3    "series": "f1",
4    "url": "http://ergast.com/api/f1/drivers/alonso.json",
5    "limit": "30",
6    "offset": "0",
7    "total": "1",
8    "DriverTable": {
9      "driverId": "alonso",
10     "Drivers": [
11       {
12         "driverId": "alonso",
13         "permanentNumber": "14",
14         "code": "ALO",
15         "url": "http://en.wikipedia.org/wiki/Fernando_Alonso",
16         "givenName": "Fernando",
17         "familyName": "Alonso",
18         "dateOfBirth": "1981-07-29",
19         "nationality": "Spanish"
20       }
21     ]
22   }
23 }
```

TASK 2 POSTMAN

GET {{formulaAPI}}/constructorStandings/1/constructors.json Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
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Body Cookies Headers (9) Test Results Status: 200 OK Time: 155 ms Size: 2.68 KB Save Response

Pretty Raw Preview Visualize JSON

```
1  "MRData": {
2    "xmlns": "http://ergast.com/mrd/1.5",
3    "series": "f1",
4    "url": "http://ergast.com/api/f1/constructorstandings/1/constructors.json",
5    "limit": "30",
6    "offset": "0",
7    "total": "17",
8    "ConstructorTable": {
9      "constructorStandings": "1",
10     "Constructors": [
11       {
12         "constructorId": "benetton",
13         "url": "http://en.wikipedia.org/wiki/Benetton_Formula",
14         "name": "Benetton",
15         "nationality": "Italian"
16       },
17       {
18         "constructorId": "brabham-repco",
19         "url": "http://en.wikipedia.org/wiki/Brabham",
20         "name": "Brabham-Repco",
21         "nationality": "British"
22       }
23     ]
24   }
25 }
```

