DP2 - A+

**GATLING EXTRA** 

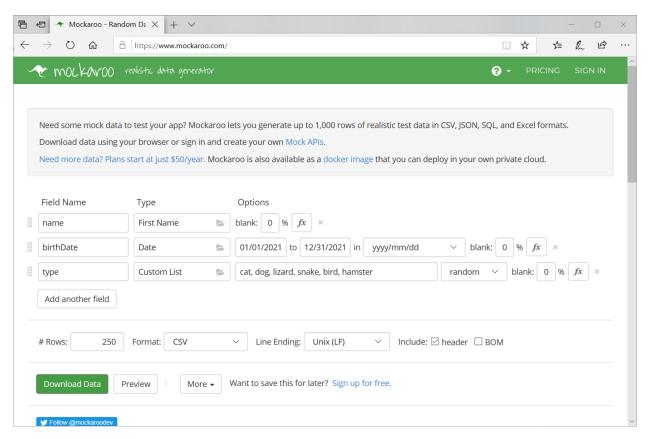
This report is dedicated to the extra task of this deliverable, the A+. The theme is Gatling feeders. Before doing the task itself I wanted to make a little research. I used the following links for that:

- https://gatling.io/docs/current/session/feeder
- https://gatling.io/docs/current/advanced\_tutorial

I also used an additional resource for making the CSV files. The link for it is the following:

https://www.mockaroo.com/

So, the first step was actually making the CSV files. You can check the configuration I used for that in Mockaroo in the next screenshot:



The user story for which I made this is US – 011 Homeless Pet Management in which I had the positive and negative scenario of creating a new pet. For that I needed a different name each time I inserted a new pet. And also, I used random values for the other fields to make it more interesting. The configuration in the previous screenshot is actually only for the negative scenario because the birth dates are in future (impossible to insert a pet with that characteristics). The procedure for the positive scenario is similar anyways.

The second step was actually modifying the Scala file of the scenarios. I needed to add the things in red in the next screenshots:

```
object HomelessPetFormPositive {
 val feederPositive = csv("HomelessPetManagementPositive.csv")
 val homelessPetFormPositive = exec(http("HomelessPetFormPositive")
    .get("/homeless-pets/new")
    .headers(headers 0)
    .check(css("input[name=_csrf]","value").saveAs("stoken"))
  ).nause(34)
  .feed(feederPositive)
  .exec(http("HomelessPetCreated")
    .post("/homeless-pets/new")
    .headers(headers 3)
    .formParam("id", "")
    .formParam("name", "${name}")
    .formParam("birthDate", "${birthDate}")
    .formParam("type", "${type}")
.formParam("_csrf", "${stoken}"))
  .pause(5)
```

```
object HomelessPetFormNegative {
 val feederNegative = csv("HomelessPetManagementNegative.csv")
  val homelessPetFormNegative = exec(http("HomelessPetFormNegative")
    .get("/homeless-pets/new")
    .headers(headers 0)
    .check(css("input[name= csrf]", "value").saveAs("stoken"))
  ) nause(34)
  .feed(feederNegative)
  .exec(http("HomelessPetFormWithErrorMessage")
    .post("/homeless-pets/new")
    .headers(headers 3)
    .formParam("id", "")
    .formParam("name", "${name}")
    .formParam("birthDate", "${birthDate}")
    .formParam("type", "${type}"
.formParam("_csrf", "${stoken}"))
  .pause(28)
```

To edit the Scala file, I used this resource: <a href="https://scastie.scala-lang.org/">https://scastie.scala-lang.org/</a>

The third step was to actually start the database and launch the application and after that I executed the script saved before.

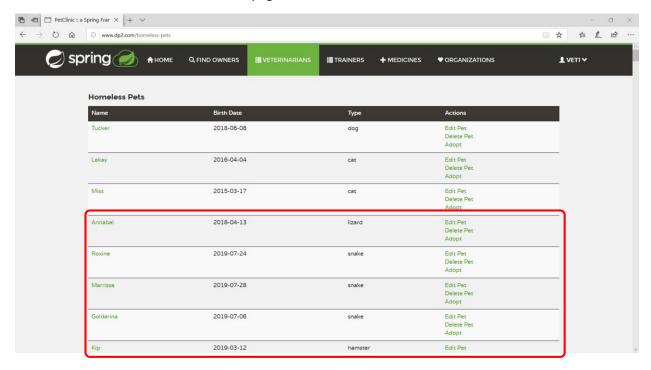
These are the pets before executing the script:

mysql:	> select * +	from pets;	+	++
id	name	birth_date	owner_id	type_id
1 1	Leo	2010-09-07	   1	1
2	Basil	2010-03-07	2	6
3	Rosv	2011-04-17	3	2
4	Jewel	2010-03-07	3	2
5	Iggy	2010-11-30	4	3
6	George	2010-01-20	5	4
7	Samantha	2012-09-04	6	1
8	Max	2012-09-04	6	1
9	Lucky	2011-08-06	7	5
10	Mulligan	2007-02-24	8	2
11	Freddy	2010-03-09	9	5
12	Lucky	2010-06-24	10	2
13	Sly	2012-06-08	10	1
14	Tucker	2018-06-08	NULL	2
15	Lekay	2016-04-04	NULL	1
16	Miss	2015-03-17	NULL	1
 16 rov	vs in set (	.00 sec)	+	++

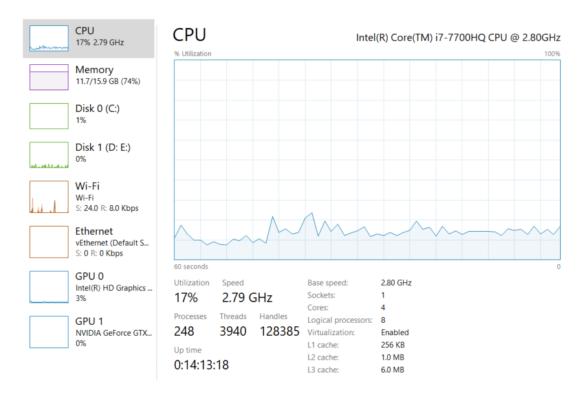
After executing the script, the following screenshot shows part of the query result I got from the database:

mysql:	> select * fro	om pets;		
+   id	+   name	birth_date	owner_id	type_id
+   1	+   Leo	2010-09-07	 l 1	1
2	Basil	2010-03-07	2	6
3	Rosy	2011-04-17	3	2
4	Jewel	2010-03-07	3	2
5	Iggy	2010-11-30	4	3
6	George	2010-01-20	5	4
7	Samantha	2012-09-04	6	1
8	Max	2012-09-04	6	1
9	Lucky	2011-08-06	7	5
10	Mulligan	2007-02-24	8	2
11	Freddy	2010-03-09	9	5
12	Lucky	2010-06-24	10	2
13	Slv	2012-06-08	10	1
14	Tucker	2018-06-08	NULL	2
15	Lekay	2016-04-04	NULL	1
16		2015-03-17	NULL	1
17	Annabal	2018-04-13	NULL	3
18	Roxine	2019-07-24	NULL	4
19	Marrissa	2019-07-28	NULL	4
20	Goldarina	2019-07-06	NULL	4
21	Kip	2019-03-12	NULL	
22	Grier	2019-11-25	NULL	
23	Lianne	2019-03-24	NULL	
24	Estel	2019-10-21	NULL	
25	Walker	2019-10-01	NULL	
26	Les	2019-05-23	NULL	2
27	Keri	2019-05-16	NULL	2
28	Ransom	2018-08-10	NULL	
29	Meris	2018-11-30	NULL	
30	Julietta	2019-07-03	NULL	
31	Henryetta	2018-09-08	NULL	
32	Libbi	2018-04-18	NULL	4
33	Carlin	2018-12-03	NULL	
34	Bradley	2018-09-19	NULL	
35	Edgar	2020-03-11	NULL	1
36	Carney	2019-04-17	NULL	2

And we can also see them in the actual page:

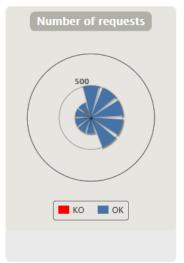


We can also check the performance results while using feeders. You can see the CPU overall performance during the execution of the script and some data from the Gatling reports on the next page.



## > Global Information





► ASSERTIONS	
Assertion \$	Status \$
Global: max of response time is less than 5000.0	ОК
Global: mean of response time is less than 1000.0	ОК
Global: percentage of successful events is greater than 95.0	ок

	C Executions				⊗ Response Time (ms)								
Requests *	Total <b>≑</b>	OK ¢	KO ¢	% KO <b>≑</b>	Cnt/s \$	Min ÷	50th pct \$	75th pct ≑	95th pct \$	99th pct ≑	Max ¢	Mean <b>≑</b>	Std Dev \$
Global Information	3749		0	0%	15.686		12	23	47	135	1314		
Home		500	500	0	0% 2	2.092				6 670	1314		
Login		500	500	0	0% 2	2.092				4 20	28		
Logged		500	500	0	0% 2	2.092				8 48	287		
Logged Redirect 1		500	500	0	0% 2	2.092				8 22	25		
ListHomelessPets		500	500	0	0% 2	2.092	11	22	33 6	2 452	464	35	
HomelessPositive		250		0	0%	1.046		16	22 3	2 387	409	26	
HomelessNegative		250	250	0	0%	1.046			22 3	4 393	401	26	
HomelessrMessage		250	250	0	0%	1.046	16	25	36 4	8 53	74	29	1
HomelessPetCreated		250	250	0	0%	1.046	20	30	44 5	7 132	135	37	
Homelessdirect 1		249	249	0	0%	1.042	12	33	44 5	8 70	82	34	