

Gatling extra task

US – 21

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Gatling feeder

For the Gatling extra task or Gatling Feeders I choose US-21 (Training session organization), which means trainer adding new rehabilitations, since I it is a suitable user story for generating test cases, since there is an input.

As for the scala file, I took a previously added performance test diagnosis scala file for US-21 and made some changes in order to make Gatling feeder applicable.

That included changes:

- 1) Declaring new variables so that when the scala file's script is executed, then the data will be taken from the 2 csv files defined below:

```
val feederPositive = csv("RehabManagementPositive4.csv")  
val feederNegative = csv("RehabManagementNegative4.csv")
```

- 2) Adding the actual 'call' for the csv files, so that when the script is running, then the data inside the csv will be inserted into the new rehabs that are going to be added.

```
.feed(feederPositive)  
.feed(feederNegative)
```

- 3) Changing the parameters, so that for each rehab different data is inserted instead of a previously defined constants

In the screenshots below there is a scala file with the added Gatling feeder extensions:

```
object AddedSuccessfulNewRehab {  
  val feederPositive = csv("RehabManagementPositive4.csv")  
  
  val addedSuccessfulNewRehab2 = exec(http("AddedSuccessfulNewRehab")  
    .get("/owners/3/pets/3/rehab/new")  
    .headers(headers_0)  
    .check(css("input[name=_csrf]", "value").saveAs("stoken"))  
    ).pause(34)  
  .feed(feederPositive)  
  .exec(http("AddedSuccessfulrehab")  
    .post("/owners/3/pets/3/rehab/new")  
    .headers(headers_3)  
    .formParam("petId", "3")  
    .formParam("id", "")  
    .formParam("date", "${date}")  
    .formParam("time", "${time}")  
    .formParam("description", "${description}")  
    .formParam("_csrf", "${stoken}")  
    ).pause(37)
```

Figure 1 Adding rehab positive case

```

object UnsuccessfulAddingOfRehab {
  val feederNegative = csv("RehabManagementNegative4.csv")

  val addedUnsuccessfulRehab = exec(http("UnsuccessfulAddingOfRehab")
    .get("/owners/3/pets/3/rehab/new")
    .headers(headers_0)
    .check(css("input[name=_csrf]", "value").saveAs("stoken")))
    .pause(34)
  .feed(feederNegative)
  .exec(http("UnsuccessfulAddingOfRehab2")
    .post("/owners/3/pets/3/rehab/new")
    .headers(headers_3)
    .formParam("petId", "3")
    .formParam("id", "")
    .formParam("date", "${date}")
    .formParam("time", "${time}")
    .formParam("description", "${description}")
    .formParam("_csrf", "${stoken}"))
    .pause(27)
}

```

Figure 2 Adding rehab negative case

For generating csv files, the website <https://www.mockaroo.com/> was used.

Before running the script, I checked the database state, to see how many rehabs are saved as for now. We can see that there are 2 rehabs.

The screenshot shows a database client interface with a sidebar on the left listing various database tables. The main area displays the results of a SQL query: `SELECT * FROM REHAB;`. The results are shown in a table with 6 columns: ID, REHAB_DATE, DESCRIPTION, REHAB_TIME, PET_ID, and TRAINER_ID. There are 2 rows of data. Below the table, it indicates "(2 rows, 4 ms)".

ID	REHAB_DATE	DESCRIPTION	REHAB_TIME	PET_ID	TRAINER_ID
1	2020-09-11	Rehab session 1	2	14	1
2	2020-09-11	Rehab session 1	2	6	1

Figure 3 Rehabs before adding Gatling feeder

After executing the script, I checked the database again to see if there are any changes regarding to rehabs, as there should be added rehabs. We can see that many rehabs have been added:

Max rows: 1000 | Auto complete: Off | Auto select: On

Run | Run Selected | Auto complete | Clear | SQL statement:

```
SELECT * FROM REHAB
```

ID	REHAB_DATE	DESCRIPTION	REHAB_TIME	PET_ID	TRAINER_ID
1	2020-09-11	Rehab session 1	2	14	1
2	2020-09-11	Rehab session 1	2	6	1
3	2019-10-30	Baucau	23	3	1
4	2019-10-15	Qarah Bāgh	89	3	1
5	2020-12-26	Zagoryanskiy	48	3	1
6	2021-01-01	Kaset Wisai	5	3	1
7	2019-06-25	Tangyu	49	3	1
8	2020-03-19	Naprawa	5	3	1
9	2020-05-28	Limoeiro de Anadia	89	3	1
10	2020-12-24	Gustavsberg	34	3	1
11	2021-02-15	Ciampea	38	3	1
12	2021-01-18	Dajabón	73	3	1
13	2020-01-20	Zhentou	8	3	1
14	2019-07-29	Lysekil	37	3	1
15	2020-11-11	Riobamba	92	3	1
16	2019-06-28	Coruripe	96	3	1
17	2019-09-16	Rio Covo	33	3	1

Figure 5 Rehabs after adding Gatling feeder 1

Max rows: 1000 | Auto complete: Off | Auto select: On

Run | Run Selected | Auto complete | Clear | SQL statement:

```
SELECT * FROM REHAB
```

ID	REHAB_DATE	DESCRIPTION	REHAB_TIME	PET_ID	TRAINER_ID
67	2019-12-29	Machala	36	3	1
68	2019-07-05	Amuru	90	3	1
69	2020-09-22	Zhangjiachang	5	3	1
70	2019-12-08	Agodim	90	3	1
71	2020-07-28	Tateyama	18	3	1
72	2021-03-22	Jatipamor	66	3	1
73	2020-03-24	Miasteczko Śląskie	41	3	1
74	2019-09-26	Arroyo Seco	75	3	1
75	2020-08-06	Jintang	90	3	1
76	2020-08-09	Vakhtan	24	3	1
77	2021-02-24	Wufeng	41	3	1
78	2019-12-25	Zaandam	36	3	1
79	2020-08-31	Radostowice	68	3	1
80	2020-01-11	Shuibatang	3	3	1
81	2020-11-15	Västerås	75	3	1
82	2019-11-03	Innoshima	65	3	1
83	2019-09-11	Hung Yën	20	3	1
84	2019-06-30	Višnjevac	66	3	1
85	2019-06-05	Ilinden	2	3	1

Figure 4 Rehabs after adding Gatling feeder 2

The same situation we can see when we log into our petclinic website, that pet with an ID 3 has a lot of rehabs added:

Pets and Rehabilitation						
Name	Jewel	Rehabilitation Date	Rehabilitation Time	Rehabilitation Description	Rehabilitation Trainer	
Birth Date	2010-03-07					
Type	dog	Add Rehab				
Name	Rosy	Rehabilitation Date	Rehabilitation Time	Rehabilitation Description	Rehabilitation Trainer	
Birth Date	2011-04-17	2019-12-23	55	Guangsheng	John Doe	Delete Rehabilitation Edit Rehabilitation
Type	dog	2019-09-26	75	Arroyo Seco	John Doe	Delete Rehabilitation Edit Rehabilitation
		2020-12-24	34	Gustavsberg	John Doe	Delete Rehabilitation Edit Rehabilitation
		2019-12-05	72	Cumanayagua	John Doe	Delete Rehabilitation Edit Rehabilitation
		2019-12-08	90	Agodim	John Doe	Delete Rehabilitation Edit Rehabilitation
		2019-08-05	55	Shenmeri	John Doe	Delete Rehabilitation Edit Rehabilitation
		2019-10-17	80	Cishan	John Doe	Delete Rehabilitation Edit Rehabilitation
		2020-07-21	81	Rio Grande da Serra	John Doe	Delete Rehabilitation Edit Rehabilitation
		2020-04-09	94	Abéché	John Doe	Delete Rehabilitation Edit Rehabilitation

Figure 6 Petclinic website after adding Gatling feeder