Functional Analysis – Decision Table and State Diagram

May/2023 Shmuel Gershon / Michael Stahl

Overview

In this exercise we continue our validation work on the T-Tweak web-based service.

In case you forgot, re-read the opening paragraphs of Exercise 2.

This exercise:

You can see the definition of all the APIs through a Swagger UI ("Swagger allows you to describe the structure of your APIs so that machines can read them" https://swagger.io/docs/specification/2-0/what-is-swagger/). You can also try using the APIs from the Swagger interface.

The following URL presents the specification of our service's APIs: http://t-tweak.gershon.info/docs

You mission:

a) Write a decision table for testing "password" API
b) Draw the state machine of the "storage" API

Directions and hints:

Password

- The "Action" is the score

Storage

- Use **draw.io** (online or the application) to draw the state machine
- To fully understand the state machine, experiment with it, and check the state using the "state" command. You can call the API
    - Via the Swagger interface, or
    - By sending request URLs directly from the browser, or
    - By sending request URLs using Powershell **Invoke-RestMethod -Uri <request URL>**
    - Or any other way you can send URLs (e.g. using Postman)

How to submit:

Decision table: In an Excel file: **EX4_<your ID>.xlsx**
State diagram: in a PDF file: **EX4_<your ID>.pdf**

- Draw.io can export your diagram to pdf.

Grading
The exercise weight in the final grade is 3 points. It is not a mandatory exercise.

The deadline for submission is 17/May 23:55 .

Late submission penalty:

- One day: -1 point (out of the 3)
- Two days: -2 points (out of the 3)

You can't submit later than 2 days after the deadline.