Functional Analysis – Decision Table and State Diagram

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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 the "password" API
b) Draw the state machine of the "storage" API

Directions and hints:

Password
- The "Action" is the score. In some cases it will need to be a function, not a specific value.

Storage
- Use **draw.io** available online or as a downloadable application) to draw the state machine. Save your result as pdf.
- To fully understand the state machine of "storage", experiment with it and check the state using the "state" command. You can call the API
    o Via the Swagger interface, or
    o By sending request URLs directly from the browser, or
    o By sending request URLs using curl.

- **IMPORTANT:** for curl to work with this API you must use the additional switches '-b' and '-c'. See example below:

curl -X GET -b cook -c cook https://t-tweak.gershon.info/docs/storage/add?string=aaa

- Or use any other way you can send URLs (e.g. using Postman)

- The **query** command works only after 3 strings were added to the storage

How to submit:

Decision table: In an Excel file: **EX4a_<your ID>.xlsx**
State diagram: in a PDF file: **EX4a_<your ID>.pdf**
- Draw.io can export your diagram to pdf.

Grading
This weight of this part of the exercise in the final grade is 3 points. It is not a mandatory exercise.

The deadline for submission is 11/Jun 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.