File komega-v01e.py

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First date: September 4, 2020

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Execution Environment of my local machine:

(venv) gerd@gerd-ub2:~/env/komega/tst\$ python3 komega-v01d.py
#

#

We use a github repository at:

https://github.com/szmt/komega.git

#

Im working from a unix-shell using the following github-commands:

https://git-scm.com/docs/git

#

This code is a translation of a theory described in the blog

https://www.uffmm.org

#

Last document for the specification of this code:

#

https://www.uffmm.org/2020/09/10/komega-requirements-no-4-version-4-basic-application-scenario/

...

ACTOR STORY

#

In the specifications an actor story [AS] has been specified. This AS requires # some basic states which are dedicated for certain tasks to do:

...

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ACTOR STORY

```
S1: START
S2: EDIT P(roblem description)
S3: EDIT S (actual state) AND X (change rules)
S4: SIMULATION (Applying X to S)
S5: EVALUATION (After the simulation)
S6: STOP
```

MAIN IDEA

According to the above mentioned actor story the user will be sitting in front of a system interface [SI] which works first only as a console.

In the beginning the user is placed in a start state S1 showing all options available.

The user can select one of these options and can from start state S1 reach all other states S2-S6.

No funtions yet

CLASSES

#

For every state there exists one working class to do the job.

The special class 'Publish' in this code exists only because the interaction of the user with the system will happen with an interactive website which uses HTML and javascript. Here in this experimental environment a simple unix-console is used.

import kcv1e as kc

loop='Y' while loop!='N':

kc.ast.menushow()

Ask back for selection number opt=input('Enter a Number [1-6] for Menu Option \n')

Evaluate the selection

```
kc.ast.badoption(opt)
```

Call to a class instance

if opt=='2':

kc.pub.show(kc.ap)

elif opt=='3': kc.pub.show(kc.asx)

elif opt=='4': kc.pub.show(kc.asim)

elif opt=='5': kc.pub.show(kc.aev)

elif opt=='6': kc.pub.show(kc.astp)

Clarify how to continue loop=input("STOP = 'N', CONTINUE != 'N' \n")

...

```
TEST
```

(venv) gerd@gerd-ub2:~/env/komega/tst\$ python3 komega-v01e.py 1 is START 2 is EDIT P 3 is EDIT S and X 4 is SIMULATION 5 is EVALUATION 6 is STOP Enter a Number [1-6] for Menu Option 0 !!You have selected a bad option STOP = 'N', CONTINUE != 'N' а 1 is START 2 is EDIT P 3 is EDIT S and X 4 is SIMULATION 5 is EVALUATION 6 is STOP Enter a Number [1-6] for Menu Option 11 !!You have selected a bad option STOP = 'N', CONTINUE != 'N' а 1 is START 2 is EDIT P

3 is EDIT S and X 4 is SIMULATION 5 is EVALUATION 6 is STOP Enter a Number [1-6] for Menu Option 1 !!You have selected the state START STOP = 'N', CONTINUE != 'N' а 1 is START 2 is EDIT P 3 is EDIT S and X 4 is SIMULATION 5 is EVALUATION 6 is STOP Enter a Number [1-6] for Menu Option 2 !!You have selected the state EDIT P Role : "Pedit" Name : "ap" STOP = 'N', CONTINUE != 'N' а 1 is START 2 is EDIT P 3 is EDIT S and X 4 is SIMULATION 5 is EVALUATION 6 is STOP Enter a Number [1-6] for Menu Option 3 !!You have selected the state EDIT S and X Role : "SXedit" Name : "asx" STOP = 'N', CONTINUE != 'N' а 1 is START 2 is EDIT P 3 is EDIT S and X 4 is SIMULATION 5 is EVALUATION 6 is STOP Enter a Number [1-6] for Menu Option 4 !!You have selected the state SIMULATION Role : "SIM" Name : "asim" STOP = 'N', CONTINUE != 'N' а 1 is START 2 is EDIT P 3 is EDIT S and X 4 is SIMULATION

```
5 is EVALUATION
6 is STOP
Enter a Number [1-6] for Menu Option
5
!!You have selected the state EVALUATION
Role : "EVAL"
Name : "aev"
STOP = 'N', CONTINUE != 'N'
а
1 is START
2 is EDIT P
3 is EDIT S and X
4 is SIMULATION
5 is EVALUATION
6 is STOP
Enter a Number [1-6] for Menu Option
6
!!You have selected the state STOP
Role : "STOP"
Name : "astp"
STOP = 'N', CONTINUE != 'N'
а
1 is START
2 is EDIT P
3 is EDIT S and X
4 is SIMULATION
5 is EVALUATION
6 is STOP
Enter a Number [1-6] for Menu Option
7
!!You have selected a bad option
STOP = 'N', CONTINUE != 'N'
Ν
(venv) gerd@gerd-ub2:~/env/komega/tst
```

...

File kcv1e.py

Author: G.Doeben-Henisch# First date: September 6, 2020# Last date: September 11, 2020

class Start:

def menushow(self):
 i=0 # Counter for menu-loop
 for state in self.menulist:
 i=i+1
 print(i,' is ',state)

def badoption(self,opt): if int(opt)<1 or int(opt)>6: print('!!You have selected a bad option')

> if int(opt)>0 and int(opt)<7: print('!!You have selected the state',self.menulist[int(opt)-1])

class Actor:

def __init__(self,role,name):
 self.role = role
 self.name = name

class Publish():

def show(self,other):
 print('Role : "%s"'%other.role)
 print('Name : "%s"'%other.name)

ast=Start()

```
ap=Actor("Pedit","ap")
asx=Actor('SXedit','asx')
asim=Actor('SIM','asim')
aev=Actor('EVAL','aev')
astp=Actor('STOP','astp')
```

pub=Publish()