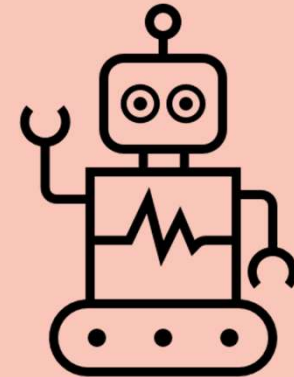


#Mimmit koodaa RPA challenge 2020





Purpose of the challenge

Get to know
RPA in
practise

Get to know
Robot
Framework

Challenge assignment

- Level 1
 - Open a browser and go to <https://www.foodie.fi/>
 - Find your favorite recipe or any recipe on the page
- Level 2
 - Add the recipe to the shopping list
 - Got to the shopping list
- Level 3
 - Fetch items to shop from external file
 - Add items to the shopping list
 - See the contents of the shopping list
 - Bonus – you can continue the task from any level in different directions, eg if level 3 feels tricky, consider what else you could do on the page

Tips for starting

- Knowit's Robot Framework tutorials (in Finnish only!)
 - [Robot Framework Tutorial 1 – Johdanto](#)
 - [Robot Framework Tutorial 2 - Testiautomaatio](#)
 - [Robot Framework Tutorial 3 – RPA](#)
 - Google is your friend, there is lot's of videos about Robot Framework
- Get to know the keyword documentation, there are so many options what you can do (Python funktions)
- Libraries that are needed in this assigment (only Selenium needs to be installed)
 - SeleniumLibrary <https://robotframework.org/SeleniumLibrary/SeleniumLibrary.html>
 - BuiltIn <https://robotframework.org/robotframework/latest/libraries/BuiltIn.html>
 - OperatingSystem <https://robotframework.org/robotframework/latest/libraries/OperatingSystem.html>
 - String <https://robotframework.org/robotframework/latest/libraries/String.html>
- Guides
 - Robot Framework guide <https://robotframework.org/robotframework/latest/RobotFrameworkUserGuide.html>
 - QuickStart: <https://github.com/robotframework/QuickStartGuide/blob/master/QuickStart.rst>

Muutamia huomioita

- Syntax (grammar)
 - Keyword syntax
<https://robotframework.org/robotframework/latest/RobotFrameworkUserGuide.html#id626>
 - Test case syntax
<https://robotframework.org/robotframework/latest/RobotFrameworkUserGuide.html#id552>
- Running the robot code
 - Save your file with .robot file extension (my_foodie_robot.robot)
 - Open command prompt (CMD)
 - Go to the same folder where you saved your robot-file
 - E.g. `cd C:\Users\kayttaja\Documents`
 - After this you can run the code: `robot my_foodie_robot.robot`
 - After the run is completed, Robot Framework forms log.html file where you are able to see how the run went and if something went wrong, you will find some guidance there

Try it out

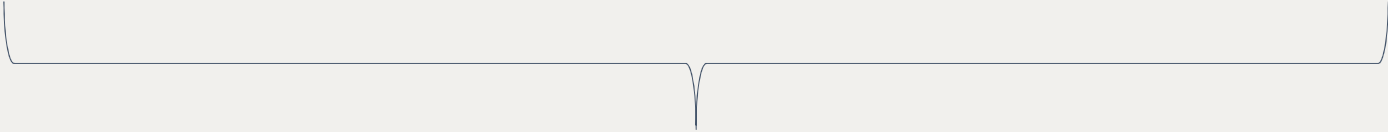
```
1  ***.Settings.***
2
3
4
5  ***.Variables.***
6
7
8  ***.Test.Cases.***
9  Tervehdys
10 |...Log.To.Console.Hello.World!
11
12
13 ***.Keywords.***
14
15
```

```
1  ***.Settings.***
2  Library...BuiltIn
3
4  ***.Variables.***
5  ${TEKSTI}...Hello.World
6
7
8  ***.Test.Cases.***
9  Tervehdys
10 |...Hello
11
12
13 ***.Keywords.***
14 Hello
15 |...Log.To.Console.${TEKSTI}
16
```

All used libraries should be added to Settings

Using variables is recommendable

Your own keywords can be effective



Does the same thing, but the code is formed differently

How to find elements from the page

Way	Example <small>(keyword + at least two spaces + locator of the element)</small>	Explanation
ID	Click Element id=myElement	Clicks the html-element, that has id myElement
Name	Click Element name=submit_button	Clicks the html-element, that has name attribute and value is submit_button
Xpath (attribute)	Click Element xpath=//button[@name="submit_button"]	Clicks the html-element, that has name attribute and value is submit_button
Xpath (tekstiä)	Click Element //button[contains(text(),"Go")]	Clicks button element that <u>contains</u> text Go.
Xpath (tekstiä)	Click Element //button[text()="Submit"]	Clicks button element that <u>has</u> text Submit.
Link	Click Link Send	Clicks link that has text Send

Tools and links

Tools to finding elements from the web pages

- Firefox
 - Developer tool (F12)
- Chrome
 - devTools (F12)
- IE
 - Developer tool (F12)

Links

- Xpath <https://devhints.io/xpath>
- Xpath
W3Schools https://www.w3schools.com/xml/xpath_intro.asp
- Robot Framework
libraries <https://robotframework.org/#libraries>