Test Automation

# DSK Weekend: 2024-03-08 - 10

## Friday

### Manual testing basics

1. ISTQB Foundations
   1. Key concepts (Presentation)  
      <https://astqb.org/assets/documents/CTFL-2018-Syllabus.pdf>
2. Write Manual test cases (practice - 01)
   1. Spreadsheet fields:  
      <https://github.com/GoldFish-Codecool/ta-dsk/blob/main/Practice/01%20-%20Manual%20Testing.md>
   2. About:  
      <https://demoqa.com/automation-practice-form>
3. Introducing Jira
   1. Link:  
      <https://jira-auto.codecool.metastage.net/>
   2. Users / passwords in separate channel (Teams)
   3. Example testcases:  
      <https://docs.google.com/spreadsheets/d/132JnG0T5nDWgDr6_mtS_8rw2mfvFx5eqj_yDMen8C9U/edit#gid=0>
   4. Testing Jira (practice - 02)
      1. Document Test cases in Jira
      2. Create Test Executions
      3. Document any bugs (if found)

### Automated web UI testing basics

1. Introducing Selenium
   1. Elements of HTML DOM  
      <https://www.seleniumeasy.com/selenium-tutorials/basic-html-concepts-required-selenium>
   2. Locators  
      <https://www.seleniumeasy.com/selenium-tutorials/selenium-locators>
   3. Google Chrome – Inspector mode
   4. SelectorsHub Chrome Extension
   5. Selenium IDE  
      <https://www.guru99.com/introduction-selenuim-ide.html>

## Saturday

### Automated web UI testing basics (continued)

* 1. Selenium WebDriver (Python)  
     <https://www.browserstack.com/guide/python-selenium-to-run-web-automation-test>
  2. Selenium commands  
     <https://www.softwaretestinghelp.com/selenium-webdriver-commands-selenium-tutorial-17/>
  3. XPath Locators Cheat Sheet  
     <https://www.browserstack.com/guide/xpath-locators-cheat-sheet>
  4. Selecting from SELECT  
     <https://www.selenium.dev/documentation/webdriver/support_features/select_lists/>
  5. WebdriverWait  
     <https://selenium-python.readthedocs.io/waits.html>
  6. Upload file  
     <https://www.browserstack.com/guide/file-upload-in-selenium>
  7. XPath Siblings  
     <https://www.educba.com/xpath-sibling/>
  8. Testing the Browser (practice - 03)  
     <https://github.com/GoldFish-Codecool/ta-dsk/blob/main/Practice/03%20-%20Automation%20testing.md>  
     Webpage under test:  
     <https://web.archive.org/web/20180926132852/http://www.seleniumeasy.com/test/basic-first-form-demo.html>

## Sunday

### API testing

1. Git in PyCharm
2. Introduction to API testing
   1. Writing unit tests in Python (pytest)  
      <https://realpython.com/pytest-python-testing/>
   2. Data Driven Testing: Parametrization (pytest)  
      <https://realpython.com/pytest-python-testing/#parametrization-combining-tests>
   3. Requests and responses (Rest API)  
      <https://www.smashingmagazine.com/2018/01/understanding-using-rest-api/>
   4. Basic functions of Postman  
      <https://www.postman.com/>
   5. API testing  
      <https://apipheny.io/free-api/>  
      <https://catfact.ninja/>  
      <https://dog.ceo/dog-api/>  
      <https://apidocs.imgur.com/?version=latest>