W2BUSINESS QA Academy Wroclaw - Spring 2018

Chapter "**Application Programming Interface (API)**"

Lectors

Svitlana Samko

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Senior Developer in Test
over 10 years web development practice
over 10 delivered software projects for middle and large business

My most beneficial skill: *I like to learn business from the inside. Only so one can be sure that we build right product in the right way at any stage of development process.*

Andrii Stepura

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Senior Quality Assurance Automation Engineer
over 14 years web development practice
over 300 delivered web projects as PO / Dev / Analyst / QA

My most beneficial skill: *Imagination to think like a stakeholder. Every piece of software starts from an idea. The first written code lines are just a half of the delivery of that idea.*

Definition of done

1. **Introduction to IT:**
   - Introduction to IT in basic terms
   - Software theory
     - SW goals, SW types, benefits
     - Software development life cycle, models
   - Fundamentals of Testing
2. Software Development basics:
   - Data
     - Formats - Text, graphic, binary
   - Languages
     - Formal XML, HTML, CSS, JSON
     - Programming Javascript, PHP
   - Test Levels and Types
   - Static Techniques
   - Review
3. **Databases (DB):**
   - Structured Query Language (SQL)
   - Relationship (MySQL DB examples)
4. **Application Programming Interface (API):**
   - Examples
   - Testing approaches
     - Positive/Negative testing
     - Smoke tests
     - Data Driven Testing (DDT)
   - Postman tools workshop

Application Programming Interface (API)

//[TODO] !

git clone https://github.com/AndriiStepura/letslearnapitesting

Self-training home tasks:

//[TODO]

0. Get updates from repo https://github.com/AndriiStepura/W2BUSINESS_QA_Academy with command: git bash pull (file "4.API.postman_collection.json" may be useful as imported to Postman collection)

1. In Asana project assign any tasks from "To Do" with title "Lecture #4 - Homework task theory #WQAA-..." to yourself and set as "In Progress".
2. Use Postman or browser to call http://qa.w2business.pl/L4/questions.php?id=# (where # = 1,2,3...40) for receiving questions
3. Use Postman or browser to call http://qa.w2business.pl/L4/answers.php?id=# (where # = 1,2,3...40) for receiving answers sets
4. Save your answers in "4.TDD-data.csv" previously renamed file as data#.csv (where # = task #) and attach to task and set task as "Ready to Review".

5. Assign any tasks from "Ready to Review" to yourself and set as "In Review" and verify answers. If answers set contains at least 13 items 'a', 8 items 'b', 8 items 'c' and 5 items 'd' then set task as "Ready for Test", else set as "To Do" with appropriate comment.

6. Assign any tasks from "Ready for Test" with title "Lecture #4 - Homework task theory #WQAA-..." to yourself and set as "In Test" and verify answers use Postman Runner fed test data from csv from task, with call to:
GET http://qa.w2business.pl/L4/answersChecker.php?id=1a where 1a is a string combination {question #}+{your answer}
(in request tests add verification for Status is 200, available in default snippets). If all 40 requests pass – add screenshot or exported result to task and set task as "Done", else set as "To Do" with appropriate comment.

7. In Asana project assign any tasks from "To Do" with title "Lecture #5 - Homework practice task #WQAA-..." to yourself and set as "In Progress".
7.1. Create your CV for tester/OA position
7.2. Prepare for job interview and find 7 questions from different areas: ISTQB, Web UI, SQL, API, practical task (i.e. test design techniques, flowcharts, code examples...)

8. Send CV to one of lectors by email or slack, questions add to task and set task as "Ready to Review"

9. After your CV and questions pass review print it, Test of this task will be provided at the 5th lecture (if you need help with print inform lector who review your CV about this).

Gratitude:

Thanks for review:

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QA academy

Thanks for tech background:

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