INTRODUCTION TO QA AUTOMATION

By. Admas Kinfu
SuperSQA.com

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01 >   Intro To QA Field

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Intro to QA

- Detailed webinar recording on Intro to QA
  - YouTube: https://youtu.be/geMjVFeNRQo?si=Ronn_gYXB-Oltq91

- ## What is QA/QE?
- ## Why is it a great career?
- ## What are the responsibilities?
- ## Types of QA
- ## Manual Vs. Automated

Why QA/QE? Summary

- Easy entry to tech field

- Opens doors to many career paths

- Growing industry (opportunities)

- Great work/life balance

- Clear impact to society/company/your pocket

Example Test Cases 1

► facebook.com -> web app

   o Can valid user login

   o Does wrong password show correct error message

   o Can logged in user post a picture

   o Can logged in user post a video

   o Can logged in user send message

   o Is the heading spelled correctly

Example Test Cases 2

► facebook.com -> mobile app

- Same as above
- Do notifications show up?
- Does location service work correctly?
- Does calling work?
- Is color of buttons correct?

Example Test Cases 3

► demostore.supersqa.com -> web app

     o Verify new user can register

     o Verify non-existing user gets correct errormessage

     o Verify registration with existing user fails

Demo Manual Testing

02 > Intro To Automation

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Intro to automation

- Write code that tests other code

- Write code that will do everything* you manually do

- Simulate real life scenarios (like high traffic & load) using code

Why Automation?

- More $$$

- Reliable & repeatable

- Fast to execute many tests

Demo Automatio Testing

O3 > Skills for Automation

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Skills For Automation

Types of Automation

- Web Applications (website)

- Mobile Applications

- Backend Testing (API, Database)

- Performance Testing

Must Have Skills

★ Programming Language
- Python
- Java
- Javascript

★ Testing Tool
- Selenium
- Appium
- Playwright

★ SQL (Database Language)
- MySQL

Must Have Skills (mini topics)

- git

- ssh

- Postman

Nice Have Skills

- CI/CD Tools (Build Tools)

  * Jenkins, GitLab, GitHub Actions, Circle CI

- Cloud Services

  * AWS, Google Cloud, Microsoft Azure

Nice Have Skills

- Others

  - VIM

  - Frameworks (pytest, robot-framework, bdd)

  - BrowserStack

  - Jira (Project management)

O4 > Game Plan
How To Learn

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How to Learn Automation?

STEP 01

Learn a language (**Python**)

STEP 02

Learn a tool (**Selenium WebDriver**)

STEP 03

Learn a Framework(**PyTest Or Robot-Framework**)

STEP 04

Practice More (**Ecom Site**)

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Putting it together and practicing.

Write tests and automate them for e-commerce site.

Create your own e-com site with WordPress/WooCommerce.

Pick a framework (I recommend PyTest)

Automate Front-end Tests

Automate Back-end Tests

How to Learn Automation?

STEP 05
Learn build tool (**Jenkins**)

Most popular tool.
Take what you automated on steps 1 to 4 and setup build jobs in Jenkins

STEP 06
Learn the Cloud (**AWS**)

Most popular cloud provider.
Too many services so just learn 1 at a time.
I suggest S3, SNS, SQS, Lambda & ECS (in this order)

STEP 07
Learn a second framework
(**Robot Framework or PyTest**)

STEP 08
Start learning Mobile Testing (**Appium**) or another UI testing tool (**Playwright**)

To increase job opportunities, learn one more framework.
If you started with PyTest then learn Robot-Framework after that. Or vice versa.

05 > Resources

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Resources To Learn From

SuperSQA.com

- Self-Paced video courses
- Live Bootcamp with a coach (me)
  (**supersqa.com/bootcamp**)

udemy.com

- Cheap courses (tons of options)

YouTube.com

- Free content (tons of good stuff)

supersqa.com

Gift For You

FREE ACCESS TO PYTHON & SELENIUM COURSE

Coupon Code: THANKYOU0824

Selenium WebDriver & Python From Scratch 2023

THANKS!

Do you have any questions?

admas@supersqa.com

info@supersqa.com

+1-408-634-8090

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