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INIȚIERE ÎN REST API & UI TEST AUTOMATION

Durată curs: 14 cursuri x 3 ore

Descrierea cursului

Cursul de **Iniţiere în REST API & UI Test Automation** se adresează persoanelor care au cunoştinţe de Software Testing și doresc să înceapă o carieră în domeniul automatizării. **REST API Testing** vă învaţă partea teoretică și practică necesare pentru crearea sarcinilor de testare ale serviciilor web de tip REST. Partea de UI acoperă modul în care se realizează testarea dinamică și analitică a unui produs software prin utilizarea unui program pentru executarea procedurilor.

Programă

Curs I

- Introduction in Java Programming
- ❖ What is Java?
- ❖ My first program: "Hello world!"
- Add comments
- Basic data types
- Strings
- Operators
- Types of errors

Curs II

- Control Flow Statements
- The if-then and if-then-else Statements
- ❖ The switch Statement
- The while and do-while Statements
- The for Statement
- Arrays

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Curs III

- ❖ What is an Object?
- What is a Class?
- Access Modifiers
- OOP Concepts Inheritance

Curs IV

- ❖ What is an interface?
- OOP Concepts Encapsulation
- OOP Concepts Polymorphism
- OOP Concepts Abstraction
- Lists
- Maps
- The Try-Catch-Finale Blocks

Curs V

- ❖ What is Maven?
- TestNG framework
- Maven plugins
- Automating our first tests scenarios
- Using Log4J

Curs VI

- ❖ What is REST?
- HTTP and REST
- Components of HTTP Request and Response
- HTTP methods supported by REST
- HTTP Status Codes
- Understanding a URL Structure and Query Parameters
- HTTP Headers
- ❖ Resources in REST JSON Format
- What is REST API Testing?
- Why to Automate the API Testing?

Curs VII

- Using our dedicated API
- Basic Access Authentication
- Using Postman for REST API Testing
- Sending first requests
- Collections
- Test Scripts
- Validations
- Environment Variables

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Curs VIII

- Test automation with Java and Rest-Assured
- Setting up your project
- Automating out first test scenarios with Rest-Assured
- Testing status code
- Testing media type
- Testing error messages
- Debugging

Curs IX

- * Test automation with Java and Rest-Assured Continue
- Create POJO
- JSON Payload validation
- Finding bugs
- Learn how to manage defects
- Practice

Curs X

- ❖ Why to Automate the GUI?
- ❖ What is Selenium? What are the advantages of Selenium?
- Introduction to IDE, RC WebDriver & Grid
- Configuring Selenium and Running on all supported browsers
- Object Mapping basic elements
- ❖ Basic Methods of Web Driver WebElement Commands
- Automating out first test scenarios with Selenium

Curs XI

- Object Mapping advanced elements
- Screenshot on failed tests
- How to use Expected Conditions with Waits
- Concept of Explicit/Implicit Wait in Selenium
- WebDriverWait and its uses
- Different WaitUntil Conditions
- ❖ Ways to handle Simple, Confirmation & Prompt Alert
- Switching & Closing Windows, Tabs & PopUps
- Concept of window ID

Curs XII

Putting them all together – Automate test scenarios

Curs XIII - XIV

Practical application of end to end automation flows