



Full Stack QA Course Outline by TalentTEK

Manual Testing

- Introduction / Slack / Meeting join
- ❖ SDLC / BLC
- Types of Testing
- Test Plan
- Methodology (Waterfall, agile, Scrum)
- Test Case (BDD vs Conventional)
- JIRA with TC Management tool such as Zephyr
- Build process (lower env vs prod)
- Linux Commands

SQL (Database / backend testing)

- SQL Comments
- SQL Functions and Operators
- ❖ SQL key constraint
- SQL sub query
- SQL Joins / Inner joins / outer joins
- DB Languages and Unions

Java (Core programming)

- ❖ JDK/JRE and Eclipse IDE setup
- Data type / operators / Variables
- If/else and Switch
- Build functions (trim, substring, eat)
- Method/function/java class
- OOPS concept
 - Arrays
 - Polymorphism / Constructor
 - Function overload/over writing
 - Control flow statements
- Code challenge practice

UI Automation (UAT Test)

- Selenium WebDriver
 - Types of WebElement (x-path, css, id, name Ect)
 - Drag-n-drop / Dropdown
 - ➢ GetText / GetAttribue
 - ➤ WebTable / RadioButton
 - Alert/pop up modal/ new window / tab
 - ➤ iFrame / Edit box / Check Box/ Click
 - Read/write from external files such as xl, txt and OR.properties files
- TestNG Concept (learn only for interview purpose)
 - Config TestNG with Eclipse IDE
 - Annotation (@dataprovider is optional)
 - > Try catch block





- Assertion (soft assert vs hard assert)
- Grouping, priority, enable/disable test
- Skip test
- Run test suite via TestNG.xml
- Cucumber IO (Cucumber BDD Framework Java based)
 - ➤ IntelliJ IDE (download the community edition)
 - Maven Config
 - Maven (POM.xml)
 - Dependencies
 - Plugins / cucumber JVM Report
 - > Feature File
 - All BDD test cases in Gherkin syntax (GIVEN, THEN, AND, WHEN)
 - Feature/Scenario / Scenario Outline
 - StepDef
 - Hooks.java (set up test env)
 - All steps java classes
 - PageObject
 - Page Model concept
 - > TestRunner.java
 - Points where is all stepDef at
 - Glue (all feature file)
 - Plugins (for report)
 - Base
 - Config.java (setup cross browser test)
 - Utils.java (reusable web driver functions)
 - README.MD (about the project)
- Run UI Automation suite locally and CD/CI using Jenkins

REST API (Manual and Automation)

- Git hub (must create an account with github.com)
- Node.js/npm/newman (tools required)
- HTML Request / JSON
- Basic JavaScript knowledge required
- CRUD (POST, GET, PUT and Delete)
- PostmanBDD Framework (Automation)
 - Collection contains entire test suite (.json)
 - > Environment files (.json) run test in different env
 - How to read data dynamically
 - Generate HTML Report
- Run API Automation suite locally and CD/CI Pipeline using Jenkins

Interview Prep

- Resumes prepare / Reference check
- Interview sessions / Mock Interview (s)
- Final Projects due (API, Cucumber BDD and TestNG)
- Live Projects and
- Job Supports (to get job and after job)