## Automation testing training plan

1. Java
   1. Setup
      1. Install Java Development Kit (JDK) for Windows, setup environment variables
      2. Download and install IntelliJ (Community edition) for Windows
      3. Creating a Java Project
      4. Maven
      5. Exploring the IntelliJ Interface
      6. Git and GitHub
   2. Variables, Datatypes and Operators
      1. Variables- what are?
      2. Primitive data types – Byte, Short, Int, Long, Float, Double, Char, Boolean, Strings
      3. Operators – what are, precedence
   3. Expressions, Statements, Code blocks, Methods and more
      1. Java keywords, statements, whitespaces and indentation
      2. Naming conventions and packages
      3. Code blocks, If Else statements
      4. Methods and methods overloading
      5. Exception handling
   4. Control Flow Statements
      1. Switch, For, Foreach, While and Do While
   5. OOP
      1. Classes, Constructors and Inheritance
      2. Composition, Encapsulation and Polymorphism
      3. Abstract classes, Interfaces, static and final keywords
   6. Java Collections
      1. Array, List and ArrayList
      2. Map, Set, Queue and Stack
   7. Debugging and Unit Testing
      1. Debugging, Break points and Watch points
      2. Unit testing with Junit
      3. Unit testing with TestNg
      4. AssertJ
2. Automation testing
   1. Benefits of Automation Testing
   2. Selenium WebDriver
      1. What is Selenium WebDriver?
      2. Selenium IDE (Katalon)
      3. Setting up Selenium WebDriver
      4. Locating web elements using different techniques (ID, XPath, CSS, Text and etc.)
   3. Mouse and Keyboard Actions
   4. Implicit and Explicit Waits
   5. Page objects
3. Behavior Driven Development (BDD)
   1. What is BDD?
   2. JBehave framework
      1. Stories
      2. Story Runner
4. Insis Automation Testing Framework
   1. Structure
      1. Elements
      2. Pages
      3. Resources and properties
      4. Components mapping
      5. Operational data
      6. Stories
   2. How to use the framework
   3. Writing automation tests