Exploring Robotics Process Automation (RPA) (TTML6903) Training

Duration: **3 Day**

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IT Academy

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Overview

Learn to automate processes through the development of software applications.

Robotic Process Automation (RPA) enables automating business processes using software robots. Software robots interpret, trigger responses, and communicate with other systems just like humans do. Robotic processes and intelligent automation tools can help businesses improve the effectiveness of services faster and at a lower cost than current methods. This course is the perfect start to your automation journey, with a special focus on one of the most popular RPA tools: UiPath.

Robotic Process Automation takes you on a journey from understanding the basics of RPA to advanced implementation techniques. You'll become oriented in the UiPath interface and learn about its workflow. Once you're familiar with the environment, we'll get hands-on with automating different applications such as Excel, SAP, Windows and web applications, screen and web scraping, working with user events, as well as understanding exceptions and debugging. By the end of the course, you'll be able to build your first software bot along with wiring it to perform various automation tasks with the help of bot deployment best practices.

Who Should Attend?

Developer, Architect, Business Analyst, and Software Engineer

Prerequisites

To gain the most from this course, you should have:

- Basic to Intermediate IT Skills (attendees without a programming background like Python may view labs as follow along exercises or team with others to complete them)
- Good foundational mathematics or logic skills
- Basic Linux skills and familiarity with command-line options such as ls, cd, cp, and su

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What You Will Learn

Join an engaging hands-on learning environment, where you'll learn:

- Robotic Process Automation and its impact on the modern world
- How to design, test, and perform enterprise automation task with UiPath
- How to create Automation apps and deploy them to departmental computers
- Robotic Process Automation technology
- UiPath programming techniques to deploy robot configurations
- Various data extraction techniques
- Integrations with various popular applications such as SAP and MS Office
- Debugging a programmed robot including logging and exception handling
- Maintaining code version and source control
- How to deploy and control Bots with UiPath Orchestrator

This course has a 50% hands-on labs to 50% lecture ratio with engaging instruction, demos, group discussions, labs, and project work. This is not a basic class.

Outline

What is Robotic Process Automation?

- Scope and techniques of automation
- Robotic process automation
- About UiPath
- The future of automation

Record and Play

- UiPath stack
- Downloading and installing UiPath Studio
- Learning UiPath Studio
- Task recorder
- Step-by-step examples using the recorder
- Sequence, Flowchart, and Control Flow
- Sequencing the workflow
- Activities
- Control flow, various types of loops, and decision making
- Step-by-step example using Sequence and Flowchart
- Step-by-step example using Sequence and Control flow

Data Manipulation

- Variables and scope
- Collections
- Arguments – Purpose and use
- Data table usage with examples
- Clipboard management

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- File operation with step-by-step example
- CSV/Excel to data table and vice versa (with a step-by-step example)

Taking Control of the Controls

- Finding and attaching windows
- Finding the control
- Techniques for waiting for a control
- Act on controls – mouse and keyboard activities
- Working with UiExplorer
- Handling events
- Revisit recorder
- Screen Scraping
- When to use OCR
- Types of OCR available
- How to use OCR
- Avoiding typical failure points

Tame that Application with Plugins and Extensions

- Terminal plugin
- SAP automation
- Java plugin
- Citrix automation
- Mail plugin
- PDF plugin
- Web integration
- Excel and Word plugins
- Credential management
- Extensions – Java, Chrome, Firefox, and Silverlight

Handling User Events and Assistant Bots

- What are assistant bots?
- Monitoring system event triggers
- Monitoring image and element triggers
- Launching an assistant bot on a keyboard event

Exception Handling, Debugging, and Logging

- Exception handling
- Common exceptions and ways to handle them
- Logging and taking screenshots
- Debugging techniques
- Collecting crash dumps
- Error reporting

Managing and Maintaining the Code

- Project organization
- Nesting workflows
- Reusability of workflows
- Commenting techniques
- State Machine

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- When to use Flowcharts, State Machines, or Sequences
- Using config files and examples of a config file
- Integrating a TFS server

Deploying and Maintaining the Bot

- Publishing using publish utility
- Overview of Orchestration Server
- Using Orchestration Server to control bots
- Using Orchestration Server to deploy bots
- License management
- Publishing and managing updates