RPA (*Robotic Process Automation*) UiPath Training

➤ Robotic Process Automation Concepts

Goal: In this module, you will learn about various RPA concepts and RPA tools

Objectives: Upon completing this module, you should be able to:

• Know about the concepts of RPA

• Understand how Robotic Process Automation works.

• Understand the RPA development methodology

• Know about the RPA Solution Architecture Patterns

• Handle exceptions

• Understand the types of Bots

Topics:

• Why to automate repetitive tasks/process

• What is Robotic Process Automation?

• How Robotic Process Automation works

• RPA development methodology and lifecycle

• Input Data Handling Solution Pattern

• Exception Handling

• Transaction Logging

• Credential Management

• Monitoring and Reporting

Hands-on/Demo/Use-case:

•Use Case to perform a critical analysis of a situation and to provide your suggestions to address the challenges being faced for the scenario.

➤ Overview of UiPath

Goal: In this module, you will learn about UiPath and its basic concepts

Objectives: After completing this module, you should be able to:

• Understand what UiPath and its platform components are

• Install UiPath Community Edition Software

• Get an overview on the types of Projects in UiPath

• Understand UiPath User Interface and Work with workflow activities

Topics:

• Introduction to UiPath

• Types of Projects

a. Blank

b. Simple Process

• User Interface

a. Ribbon

b. Activity Panel

c. Properties Panel

d. Configuration Panel

e. Output Terminal

• Domains in Activities

a. UI Automation

b. User Events

c. Orchestrator

d. App Integration

e. System

f. Programming

g. Workflow

•Workflow Files in UiPath

a. Sequence

b. Flowchart

c. State Machine

Hands-on/Demo/Use-case:

• Setup and Configure UiPath Studio

• Demo on how to use some of the key activities in UiPath

• Use Case for building a solution workflow

➤ **UI Automation and System Activities**

Goal: In this module, you will learn about UI Automation, System Activities, Properties, Variables, Output, Arguments, Imports and their usage.

Objectives: After completing this module, you should be able to:

• Know what UI Automation is

• Understand different System Activities

• Configure Properties of Automated Tasks

• Know about the Variables

• View Output in UiPath

• Understand Arguments

• Import Packages for a Custom Use Case

Topics:

• UI Automation Element

a. Text

b. OCR

c. Image

d. Browser

e. Window

• System

a. File

b. Clipboard

c. Application

d. Environment

e. PowerShell

f. Dialog

• Properties

• Variables

a. Managing Variables

b. Naming Best Practices

c. The Variables Panel

d. Types of Variables

• Output

• Arguments

a. Managing Arguments

b. Naming Best Practices

c. The Arguments Panel

d. Using Arguments

Hands-on/Demo/Use-case

• Working with key UI Automation and System Activities

• Set Properties for Activities

• Using Variables and Arguments

• Use Case for building and leveraging a reusable workflow

• Use Case for Text and Image Automation

➢ **Events, Recorder and Scraping**

Goal: In this module, you will learn about User Events, Recorder and different Scraping Methods. Recorder helps us to record the sequence of the task that we need to automate.

Scraping enables us to extract data from our browser, application or document to a database, .csv file or even Excel spreadsheet

Objectives: After completing this module, you should be able to:

• Understand User Events

• Perform App Integration

• Automate using Recorder in UiPath

• Perform Scraping

• Understand Selectors

Topics:

• User Events

a. Element Trigger

b. Image Trigger

c. System Trigger

• App Integration

a. Excel

b. CSV

c. Mail Automation

• Recorder

a. Introduction to Recorder

b. Recording Types

c. Automatic Recording and Manual Recording

d. Example of Automatic Recording with Basic and Desktop

e. Example of Automatic Recording with Web

f. Manual Recording

• Scraping

a. Screen Scraping

b. Data Scraping

• Selector

a. About Selectors

b. Selectors with Wildcards

c. Full versus Partial Selectors

d. UiPath Explorer

Hands-on/Demo/Use-case:

• Managing User Events

• Automating Excel

• Automate Data from Mail

• Using Recorder

• Scraping data from Screen

• Scraping data from Web

• Using Selectors

• Use Case for Data Scraping from web

• Use Case for working with data from Excel

➢ **Workflow**

Goal: In this module, you will learn about workflow and orchestrator

Objectives: After completing this module, you should be able to:

• Understand Workflow

• Understand Orchestrator

• Perform PDF Automation

Topics:

• Workflow

a. Control Flow

b. Flowcharts

c. State Machine

d. Checkpoint

e. Invoke

• Orchestrator

a. Queues

b. Assets

c. Process

• PDF Automation

a. PDF Data Extraction and Automation

Hands-on/Demo/Use-case:

• Designing Workflow

• Data Extraction using PDF

> ### **Programming and Troubleshooting**

Goal: In this module, you will learn about Programming in UiPath, organizing projects, debugging projects and handling exceptions

Objectives: After completing this module, you should be able to:

• Understand Programming Activity

• Understand Project Organization

• Perform Error Handling

Topics:

• Programming

a. Collection

b. String

c. Data Table

d. Debug

e. Execute

f. Generic Value

• Project Organization

a. Extract as Workflow

b. Workspace overview

c. How to model a complex automation process

• Error Handling

a. Rethrow

b. Terminate Workflow

c. Throw

d. Try Catch

Hands-on/Demo/Use-case:

• Using Programming Activity in UiPath

• Automation using Data Tables

• Organizing Complex Projects

• Different ways of Error Handling

• Use Case for manipulating data through collections and data tables

➢ Orchestrator CE & Other RPA Tools

Goal: In this module, you will learn about Orchestrator CE

Objectives: After completing this module, you should be able to:

• Deep Dive into Orchestrator Community Edition

Topics:

• Deep Dive into Orchestrator Community Edition

➢ **In-Class Project**

Goal: In this module, you will do an in-class project based on all the concepts you have learned in the entire course

Objectives: After completing this module, you should be able to:

• Work through an RPA project from development and testing perspective

➢ **Assessment and Certificate**