**Curriculum**

Hours: 2 hr

**Introduction to Robotic Process Automation** (Day1)

**Learning Objectives:** In this module, you will learn about the evolution and future of Robotic Process Automation. You will also learn how Robotic Process Automation works and its components.

**Topics:**

* Emergence of Robotic Process Automation (RPA)
* Evolution of RPA
* Future of RPA
* Differentiating RPA from Automation
* Defining Robotic Process Automation & its benefits
* What RPA is Not
* Types of Bots
* Application areas of RPA
* How Robotic Process Automation works
* RPA development methodology and key considerations
* List of Robotic Process Automation Tools

**Hands On:**

* Demonstrate a typical automation process by developing a process using UiPath to Identify elements from Edureka’s website related to a course search and store the results of the search in a local file
* Discuss a real-world implementation use case of RPA where involving a large telecommunication and media company. Examine how its critical business processes are automated with the help of UiPath and the benefits achieved by this automation

**Overview of UiPath (**Day2)

**Learning Objectives:** In this module, you will learn about the basic concepts of UiPath.

**Topics:**

* Introduction to UiPath platform and its components
* Installation details of UiPath’s Community Edition
* Types of Templates
* User Interface Domains in Activities
* Workflow Files in UiPath
* Hands On:
* Setup and Configure UiPath Studio
* Understand the user interface of UiPath Studio
* Create a Sequence to obtain user inputs display them using a message box
* Create a Flowchart to navigate to a desired page based on a condition
* Create a State Machine workflow to compare user input with a random number

**Process Components and Activities(**Day3)

**Learning Objective:**In this module, you will understand the main components of a process namely variables, arguments and activities. You will learn activities related to UI Automation, System activities and various User Events.

**Topics:**

* UI Automation Activities
* System Activities
* Variables
* Arguments
* Imports Panel
* User Events

**Hands On:**

* Build a process in UiPath using UI Automation Activities
* Create an automation process using key System Activities
* Using Variables and Arguments
* Automation using System Trigger

**App Integration, Recording and Scraping(**Day4)

**Learning Objective:** In this module, you will learn about Recording, Scraping Data and integrate these activities with the corresponding apps.

**Topics:**

* App Integration
* Recording
* Scraping
* Selector
* Workflow Activities

**Hands On:**

* Automate login to your (web)Email account
* Recording mouse and keyboard actions to perform an operation
* Scraping data from website and writing to CSV

**Programming, Debugging and Logging** **(**Day5)

**Learning Objective:** In this module, you will learn about Programming in UiPath, organizing projects, debugging projects and handling exceptions.

**Topics:**

* Programming
* Debugging
* Error Handling
* Logging
* Extensions
* Project Organization

**Hands On:**

* Using Programming Activities in UiPath
* Debugging errors in a UiPath Project
* Different ways of Error Handling in UiPath
* Browse through the log files related to UiPath Project

**Orchestrator Community Edition and Other RPA Tools(**Day6)

**Learning Objective:** In this module, you will learn about Orchestrator Community Edition (CE) and other leading RPA tools.

**Topics:**

* UiPath Orchestrator Overview
* Orchestrator activities
* Introduction to Orchestrator
* Orchestrator CE Other RPA tools

**Hands On:**

* Using various components of Orchestrator
* Create an automated Gmail Login Application
* Create an automated Remote Data Entry Application

**Implementing REFramework**

**Learning Objective:** In this module, you will learn how to use the REFramework template in UiPath for creating business processes and understand the various components involved in it.

**Topics:**

* Introduction to REFramework
* About REFramework
* Purpose of REFramework
* Using State Machine Layout
* States of the State Machine
* Workflows Involved
* Workflows of the Framework
* Exception Handling & Logging
* Rules of Developing a Process using REFramework

**Hands On:** Build a business process based on REFramework and utilizing various components of this framework such as its workflows, states, variables and exceptions

**Data Manipulation & PDF Automation (**Day7)

**Learning Objective:** In this module, you will learn about Data Manipulation, virtual machines, Citrix, text, image, and PDF Automation.

**Topics:**

* Data Manipulation
* Automation of Virtual Machines
* Introduction to Native Citrix Automation
* Text and Image Automation
* PDF Automation Computer Vision

**Hands On:**

* Data manipulation in the workbook
* PDF Data Extraction

**Project**

**Which project is part of this course?**

**Investment Report:**

StockExchange house is a mid-sized company that manages the investment of its clients. Its clients have exposure to various types of instruments such as Mutual Funds, Stocks, Bonds, etc. The company is seeing a great deal of appreciation in its customer base; however, because of its increasing customer base, the company is no longer able to cater to the specific demands of its customers. The nature of the stock business is highly volatile; hence the company needs to send reports of the stock prices to its customers multiple times a day. The company is planning to create a robot that will fetch the prices from www.moneycontrol.com website and send the report to its customers. Below are the major steps that the robot should perform:

Read each client’s stock portfolio excel sheet located in a folder

Open Moneyconrol.com website to look for stock prices

For each stock mentioned in the excel sheet, fetch the stock price from the Moneycontrol.com website Enter the price read from the website into the excel sheet

Once all the stock prices have been read and excel sheet filled, send the email to the customer with excel file as an attachment

Log the activities in orchestrator

Log send mail as a transaction in orchestrator queue

**What are the system requirements for this course?**

Your system should have a minimum 4GB of RAM, Dual Core processor, Windows 7 operating system and a display resolution of 1024x768. CPU:

1. Minimum Requirement – 1.4GHz 32-bit(x86) www.edureka.co © 2020 Brain4ce Education Solutions Pvt. Ltd. All rights Reserved.

2. Recommended – Dual Core 1.8Ghz 64-bit

3. RAM: 4GBOperating System:

4. Minimum Version – Windows 7/Windows server 2008 R2

5. Maximum Version – Windows 10/Windows Server 2016 Net Framework:

6. Minimum version - 4.6.1 For Mac users:

7. Minimum 4Gb of RAM

8. Latest Oracle VM VirtualBox – You can download the latest version of Oracle VM VirtualBox for Mac-OS X fromhttps://www.virtualbox.org/wiki/Downloads OR https://www.oracle.com/technetwork/server-storage/virtualbox/down loads/index.html

**How will I execute the practicals?**

All the Demo/Hands-on of UiPath are to be executed on UiPath Studio v2018.4.3 tool installed on local machines.

The UiPath Studio v2018.4.3 Community Edition tool can be downloaded from https://www.uipath.com/developers/community-edition To learn Citrix Automation, access to a remote machine would be needed using Remote Desktop Connection or a Virtual Machine (VM) running Microsoft Windows 7 or above through virtualization software such as VMWare/VirtualBox/Hyper-V.

The detailed installation guides are also provided in the LMS for setting up the environment. In case you come across any doubt, the 24\*7 support team will promptly assist you.