edureka!
Discover Learning

Robotic Process Automation Training using UiPath

About Edureka

Edureka is a leading e-learning platform providing live instructor-led interactive online training. We cater to professionals and students across the globe in categories like Big Data & Hadoop, Business Analytics, NoSQL Databases, Java & Mobile Technologies, System Engineering, Project Management and Programming. We have an easy and affordable learning solution that is accessible to millions of learners. With our students spread across countries like the US, India, UK, Canada, Singapore, Australia, Middle East, Brazil and many others, we have built a community of over 1 million learners across the globe.

About Course

Edureka's Robotic Process Automation training using UiPath will make you an expert in UiPath RPA tool, so that you can drive RPA initiatives in your organization. You will master the key concepts while designing an RPA solution using UiPath, perform Image and Text automation, create RPA Bots, perform Data Manipulation, handle exceptions and build a solution using REFramework using real-life case studies. Master RPA with Edureka and make a career in it.

Curriculum

Introduction to Robotic Process Automation

Learning Objective: 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

Learning Objective: 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, Recording & Scraping

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, User Events and App Integration. In addition, you will learn about the recording and scraping feature of UiPath. **Topics:**

- UI Automation Activities

- System Activities

- Variables

- Arguments

- Imports Panel

- User Events

- App Integration

- Scraping

- Selector

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

- Automating Excel

- Automate Data from Mail

- Using Recorder and Scraping features of UiPath

- Using Selectors in automation processes

Data Manipulation, Workflow and Automation

Learning Objective: In this module, you will learn about Data Manipulation, Workflows, Text and Image Automation, Citrix Automation and PDF Automation. **Topics:**

- Data Manipulation

- Workflow

- Automation of Virtual Machines

- Introduction to Native Citrix Automation

- Text and Image Automation

- PDF Automation

Hands-On:

- Manipulating Scalar, Collection & Table Data

- Automating Text and Image in Virtual Environments

- PDF Data Extraction

Programming, Debugging and Logging

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

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 CE

- 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
- Using State Machine Layout
- Workflows of the Framework
- Exception Handling & Logging
- Rules of Developing a Process using REFramework

Hands-On:

- Build a business process using REFramework based on real-life use case and utilizing various components of this framework such as its workflows, states, variables and exceptions

In-Class Project

Learning Objective: In this module, you will build a project by implementing various concepts of project development learnt throughout this course.

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 into 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 increasing customer base, it is no longer able to cater to the specific demands of its customers. The nature of stock business is highly volatile; hence the company needs to send report of the stock prices to its customers many times in 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 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)
2. Recommended – Dual Core 1.8Ghz 64-bit
3. RAM: 4GB **Operating 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 from https://www.virtualbox.org/wiki/Downloads OR https://www.oracle.com/technetwork/server-storage/virtualbox/downloads/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.