

**MIET Skill Academy**

## **UiPath RPA Training Module**

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## **UiPath RPA TRAINING MODULE**

*Robotic Process Automation (RPA) is a software program that imitates human actions while interacting with a computer application and accomplishing automation of repetitive, rule-based processes. UiPath is reliable, fast and one of the most popular among other existing automation tools.*

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### **DELIVERY METHOD**

- 25% Self-paced Learning
- 75% Instructor led Training

### **VERSION**

2020

### **LEARNING OBJECTIVES**

- Understand business functionalities in Robotics Process Automation
- Know how these RPA can be utilized across the Organizations
- Implement RPA functions across the Organizations to boost revenues
- Skills in cost efficiencies of ROI and various RPA solutions
- Leverages knowledge in dissecting the myths from the facts and realize the true benefits of RPA
- Drive the strategic and tactical roll out of the RPA solution
- Manage RPA solutions to ensure lasting results



## **PREREQUISITES SKILLS**

- Computer Science Fundamentals
- Basic Knowledge of Applied Mathematics & Algorithm

## **DURATION**

36 Hours

## **SKILL LEVEL**

Basic-Intermediate

## **HARDWARE REQUIREMENTS**

- Processor: 2 GHZ or Higher
- RAM: 8 GB
- DISK: 80 GB
- Network Requirement: Yes

## **Notes:**

*The following unit and exercise durations are estimates and might not reflect every class experience. The estimates do not include the duration of optional exercises or sections. Student in this course use a UiPath Studio to perform the exercises.*



# COURSE AGENDA

## Lecture I - Robotic Process Automation – Introduction, Working

**Duration:** 3 Hrs.

<b>Overview</b>	This Lecture will give a brief historical evaluation and introduction to RPA. You will also understand when and why to choose RPA and detailed view of working of Robotic Process Automation and its implementation.
<b>Learning Objectives</b>	<b>After completing this unit, you should be able to</b> <ul style="list-style-type: none"><li>• Why RPA</li><li>• Test automation v/s RPA</li><li>• Pros &amp; Cons, Myths of RPA</li><li>• Understand How RPA Works</li><li>• RPA Implementation</li><li>• Understand different Tools for RPA</li><li>• Understand Applications of RPA</li></ul>

## Lecture II – UiPath – Basics, Installation and Understanding User Interface Components

**Duration:** 3 Hrs.

<b>Overview</b>	This Lecture will explain key basics of UiPath and the related concepts. This Unit will guide the Students through the installation process of UiPath on local computer. We discuss user interface in UiPath and its components and how these components work and their functionalities
<b>Learning Objectives</b>	<b>After completing this unit, you should be able to</b> <ul style="list-style-type: none"><li>• Understand What is UiPath</li><li>• Understand Importance of UiPath</li><li>• Understand different Products of UiPath</li><li>• Understand Requirements for Installing UiPath Studio</li><li>• Understand UiPath Studio Installation</li><li>• Understand Important Concepts in UiPath Studio</li><li>• Understand different Components of UiPath User Interface</li></ul>



## Lecture III – Keyboard Shortcuts & Customization

**Duration:** 3 Hrs.

<b>Overview</b>	UiPath studio has keyboard shortcuts for various activities to save a user's time. In this Lecture, you will learn various keyboard shortcuts in UiPath Studio and their customization techniques in detail.
<b>Learning Objectives</b>	<b>After completing this unit, you should be able to</b> <ul style="list-style-type: none"><li>• Understand Keyboard Shortcuts</li><li>• Understand File Management</li><li>• Understand Debugging</li><li>• Understand Recording</li><li>• Understand Workflow Execution</li><li>• Understand Selected Activity</li><li>• Understand Customization of Keyboard Shortcuts</li></ul>

## Lecture IV – Automation Projects and Their Debugging

**Duration:** 3 Hrs.

<b>Overview</b>	This Lecture explains how to work with automation projects in UiPath and their debugging methods.
<b>Learning Objectives</b>	<b>After completing this unit, you should be able to</b> <ul style="list-style-type: none"><li>• Working with Automation Projects in UiPath Studio</li><li>• Creating an Automation project</li><li>• Understand What is Automation Debugging</li><li>• Functions of Debugging</li></ul>



## Lecture V – Workflow Design 1

**Duration:** 3 Hrs.

<b>Overview</b>	In this Lecture, students will learn how to make visual workflow automation straightforward and intuitive.
<b>Learning Objectives</b>	<b>After completing this unit, you should be able to</b> <ul style="list-style-type: none"><li>• Understand Layout Diagrams</li><li>• Understand Type of Decisions</li><li>• Switch Activity</li><li>• </li></ul>

## Lecture VI – Workflow Design 1I

**Duration:** 3 Hrs.

<b>Overview</b>	UiPath is providing automated workflow design, Which can be used without programming knowledge.
<b>Learning Objectives</b>	<b>After completing this unit, you should be able to</b> <ul style="list-style-type: none"><li>• Flow Decision</li><li>• Flow Switch</li><li>• Naming Conventions</li></ul>



## Lecture VII – Variables and Arguments

**Duration:** 3 Hrs.

<b>Overview</b>	In this Lecture, Students will understand how to deal and work with variables and arguments in UiPath, and the concepts involved.
<b>Learning Objectives</b>	<b>After completing this unit, you should be able to</b> <ul style="list-style-type: none"><li>• Managing Variables in UiPath Studio</li><li>• Understand The Variable Panel</li><li>• Understand How to Create and remove Variables</li><li>• Managing arguments in UiPath Studio</li></ul>

## Lecture VIII –Recording

**Duration:** 3 Hrs.

<b>Overview</b>	Recording are important functionality of UiPath studio, enables us to capture user's action on the screen and translate them into sequences.
<b>Learning Objectives</b>	<b>After completing this unit, you should be able to</b> <ul style="list-style-type: none"><li>• Understand Recording and types of recordings</li></ul>



## **Lecture IX –Data scraping and screen scraping**

**Duration:** 3 Hrs.

<b>Overview</b>	Data scraping and screen scraping saves lot of time when you want to automate business process
<b>Learning Objectives</b>	<b>After completing this unit, you should be able to</b> <ul style="list-style-type: none"><li>• Understand data scraping and screen scraping</li></ul>

## **Lecture X – Excel Automation**

**Duration:** 3 Hrs.

<b>Overview</b>	In this Lecture, Students will understand the of Excel Automation with the help of Excel Automation
<b>Learning Objectives</b>	<b>After completing this unit, you should be able to</b> <ul style="list-style-type: none"><li>• Understand Excel Automation</li></ul>



## Lecture XI – PDF Data Extraction & Automation

**Duration:** 3 Hrs.

<b>Overview</b>	In this Lecture, Students will understand the concepts of PDF Data Extraction & Automation with the help of detailed examples
<b>Learning Objectives</b>	<b>After completing this unit, you should be able to</b> <ul style="list-style-type: none"><li>• Understand PDF Data Extraction &amp; Automation</li></ul>

## Lecture XII – Email Automation

**Duration:** 3 Hrs.

<b>Overview</b>	In this Lecture, Students will understand the concepts of Email Automation with the help of detailed examples
<b>Learning Objectives</b>	<b>After completing this unit, you should be able to</b> <ul style="list-style-type: none"><li>• Understand Email Automation</li></ul>



# 1. Robotic Process Automation- Introduction

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## What is RPA?

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## Historic Evaluation

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## **Screen Scraping Software**

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## **Workflow Automation and Management Tools**

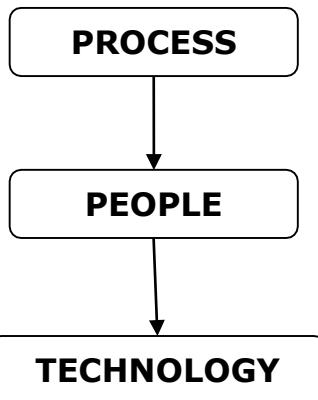
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## **Artificial Intelligence**

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## WhyRPA?

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**PROCESS**



TECHNOLOGY

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**PEOPLE**

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**CUSTOM**

**ERP**

**Disparate & Multiple IT  
systems can't  
map competitive  
business**

**MAINFRAME**

**SaaS**

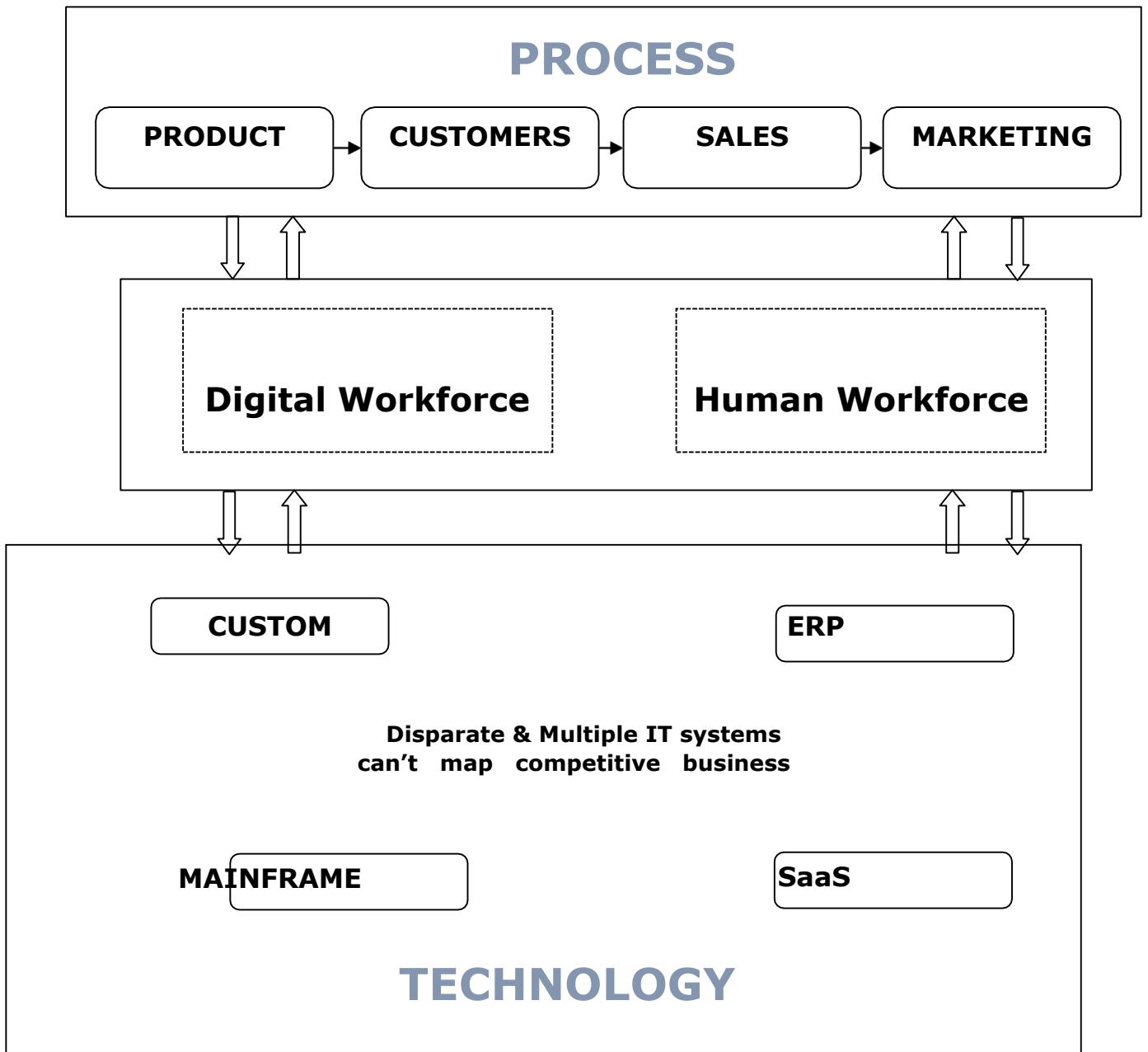
**change)**

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## Test automation v/s RPA

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- **Goal:**  
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- **Coding skills:**  
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- **Implementation:**  
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- **Users:**  
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- **Application:**  
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- **Example:**  
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## Pros & Cons of RPA

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### Pros

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### Cons

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## Myths about RPA

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**RPA software requires coding skills**

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**Human supervision is not required at all**

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**It is the cup of tea of only big organizations**

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## 2. Robotic Process Automation- Working

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### How RPA Works?

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### RPA Implementation

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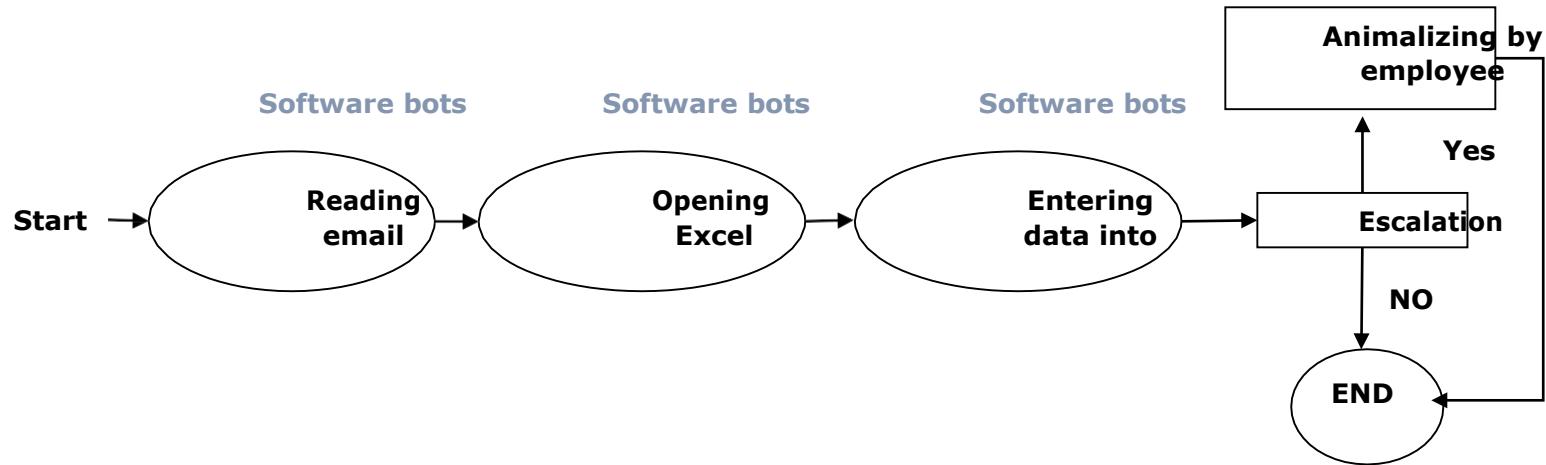
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## Example



# Tools forRPA

## Blue Prism

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\_\_\_\_\*)

Automation Anywhere

\*\* ) ) \*

UiPath

## Open Span

# Work Fusion

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## **Which Tool to Choose?**

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### **Technology**

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### **Data**

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### **Interface**

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### **Interoperability**

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### **Ease of management**

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### **Type of tasks**

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### **Security**

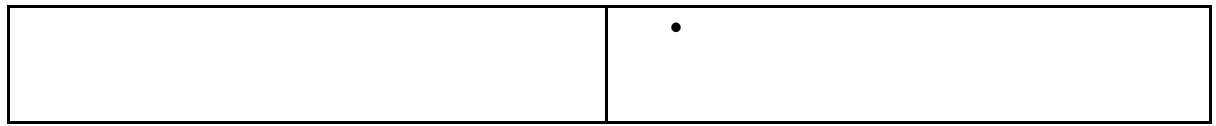
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## Applications of RPA

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<b>Industry</b>	<b>Usage</b>
	• • • •
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	• • •
	• •
	• • •



# 3. UiPath - Basics

## Introduction

### What is UiPath?

### Why UiPath?

#### **Complete Solution**

**Studio**   **UiPath Orchestrator**   **UiPath Robots**)

#### **Intuitive**

#### **Extensive Activity Library**

#### **Security**

## **Recording**

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<b>Powerful</b>	<b>Complete</b>	<b>Collaboratio</b>	<b>Secure</b>	<b>Third-Party</b>
-----------------	-----------------	---------------------	---------------	--------------------



<b>Intuitiv</b>	<b>Extensive</b>	<b>Universal</b>	<b>Recording</b>	<b>Third-Party</b>
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## **Universal Search**

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## **Powerful Debugging**

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## **Collaboration**

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## **Third-party Integration**

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## **Server-Based Licensing**

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## Products of UiPath

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### **UiPath Studio**

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### **UiPath Robot**

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### **UiPath Orchestrator**

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# 4. UiPath - Installation

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## Requirements for Installing UiPath Studio

**Windows Computer:**

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**Knowledge of MS-office and Internet:**

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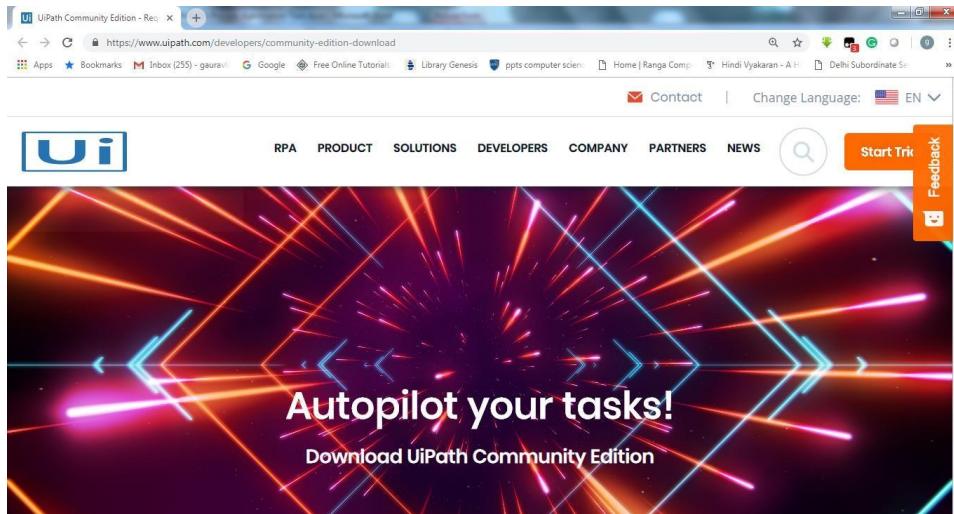
**Basics of Robotic Process Automation (RPA):**

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## Steps to install UiPath Studio

### **Step1:**

<https://www.uipath.com/developers/community-edition-download>)



## Step2:

The screenshot shows the 'UiPath Community Edition - Request' page. At the top, there's a header with the 'UiPath' logo and navigation links for RPA, PRODUCT, SOLUTIONS, DEVELOPERS, COMPANY, PARTNERS, NEWS, and a search bar. A prominent orange 'Start Trial' button is located at the top right. The main content area features a heading 'Let's automate!' and a paragraph about the free edition for individuals and small teams. It includes links to Video Tutorials, User Guides, Knowledge Base, and the Community Forum. Below this, there's a section for company details: First Name (Ram), Last Name (Kumar), Email (ABC@gmail.com), and a dropdown for expertise (IT / Developer / Engineer). There are also fields for Job Level (Other), Company Name (ABC), and Country (India). On the right side, there's a vertical sidebar with a 'Feedback' button.

## Step3:

This screenshot shows the same 'UiPath Community Edition - Request' page after filling out more fields. The 'Country' field now contains 'India'. The 'Company Industry' field is set to 'Education'. Below these, there are fields for 'Twitter Username' and 'LinkedIn Profile URL'. Underneath the 'Twitter Username' field is a note: 'I would like to receive communications about UiPath tailored to my interests and preferences, including latest news about products, services, events and promotions. For more information, please see our Privacy Policy'. Another note below it says: 'I declare that I have read and I agree with the License Agreement \*'. A red error message 'Please complete this required field.' is displayed next to the license agreement checkbox. At the bottom, a large blue 'REQUEST COMMUNITY EDITION' button is visible. The right sidebar remains the same with the 'Feedback' button.

## Step 4:

## Step 5:

/ .

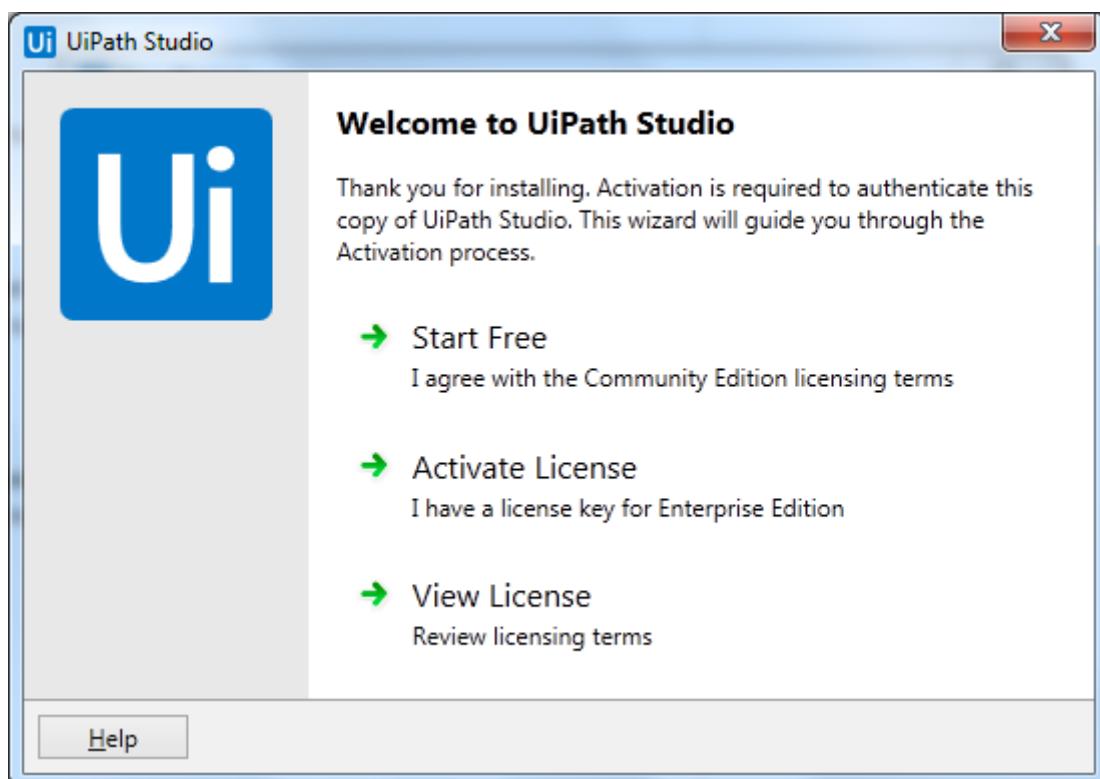
**UiPathStudio.exe,**

**Step 6:**

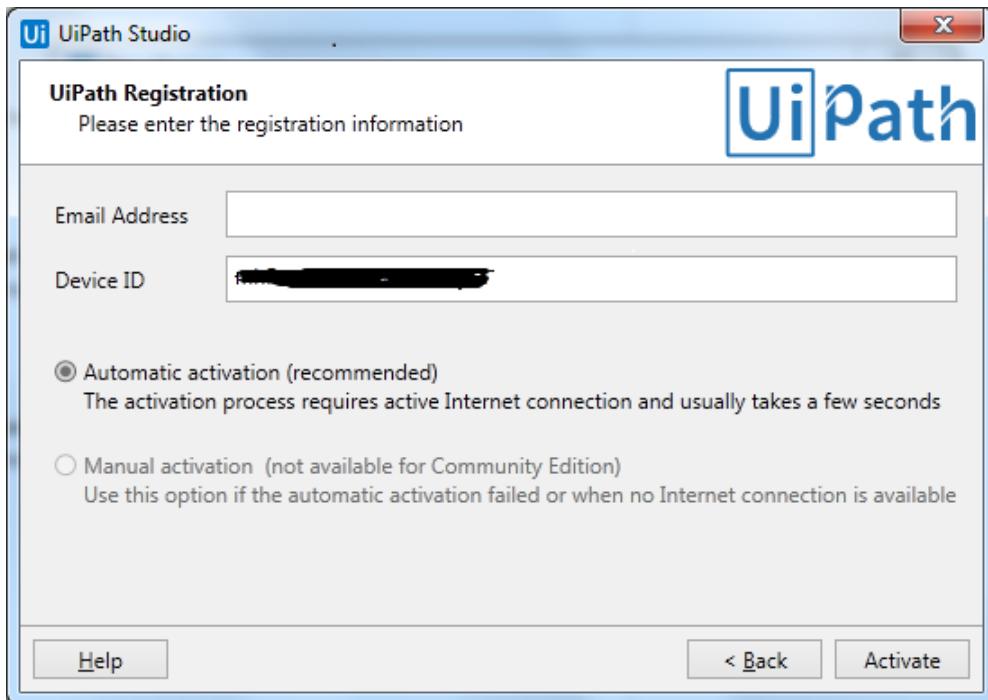
)



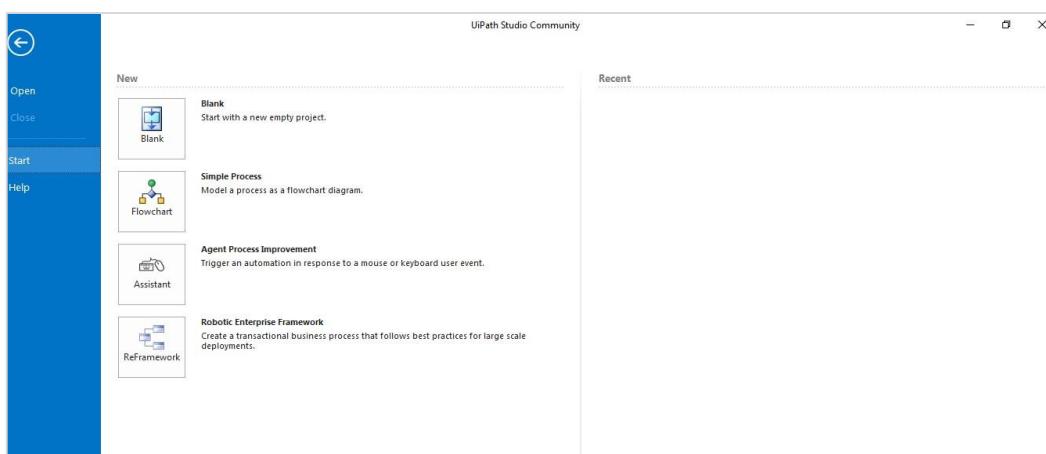
## Starting UiPath Studio



)  
Start Free

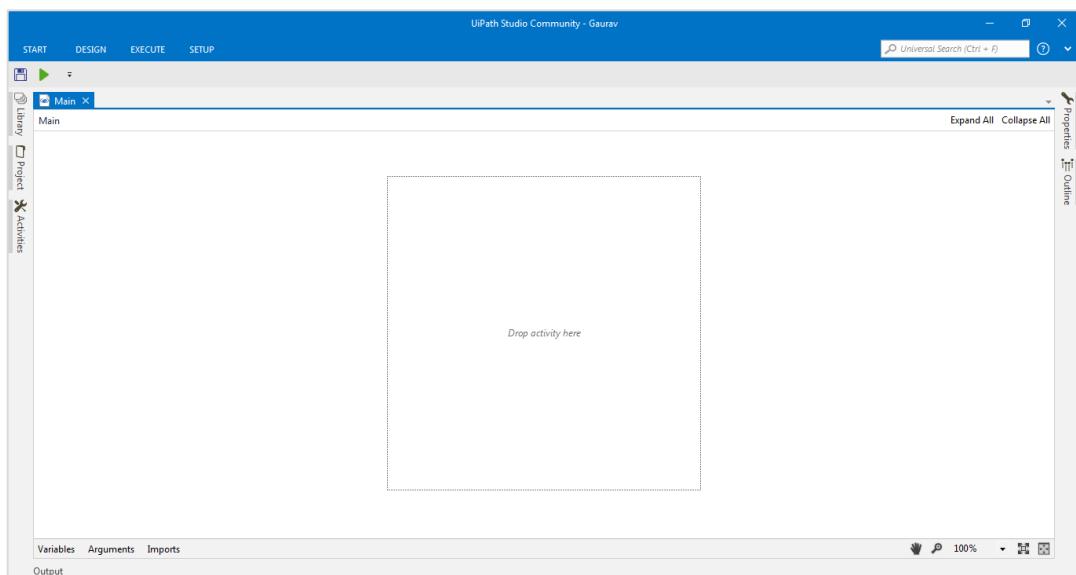


)  
**Activate**  
)

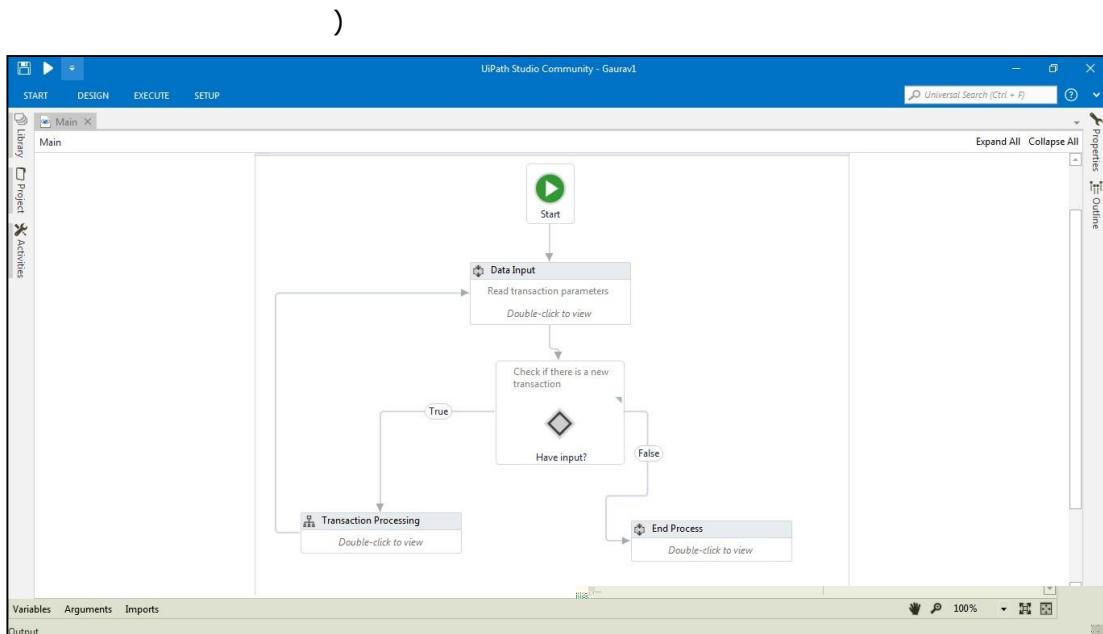


## Types of Projects

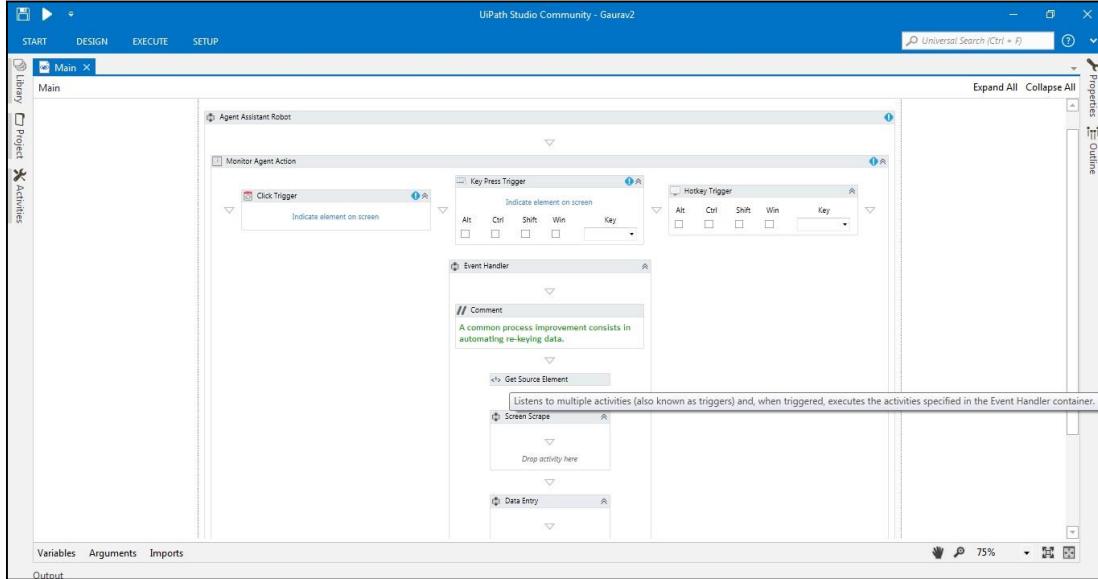
### Blank Project



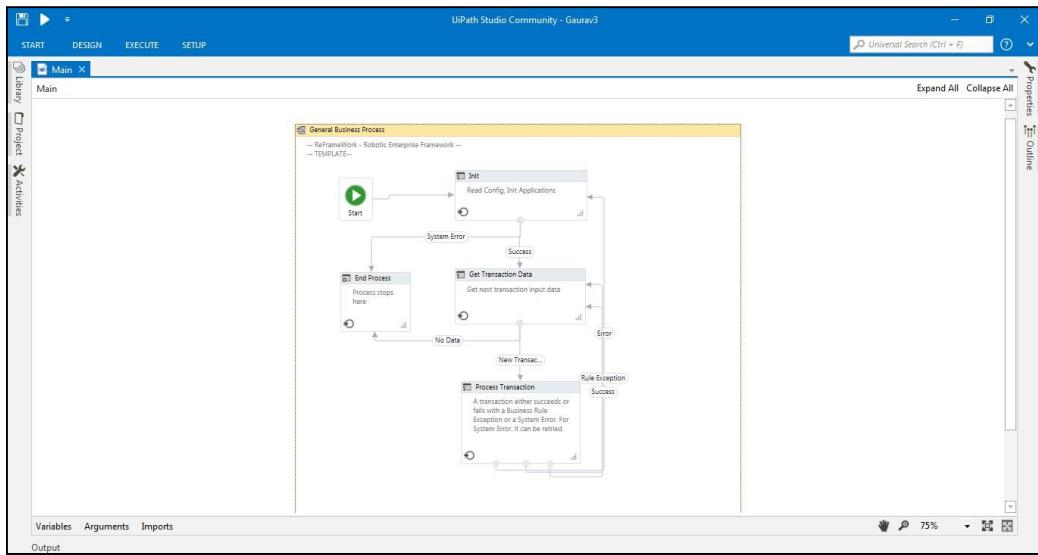
### Simple Process Project



## Agent Process Improvement Project



## Robotic Enterprise Frameworks Project



## **Important Concepts in UiPath Studio**

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### **Activities**

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### **Sequence**

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# 5. UiPath - Understanding User Interface Components

In this chapter, let us discuss user interface in UiPath and its components. We shall also see how these components work and their functionalities.

## Components of UiPath User Interface

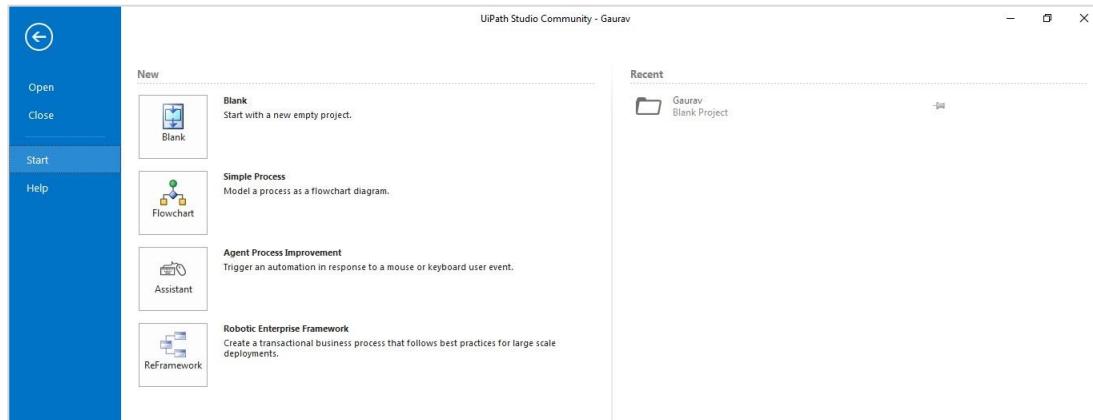
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### The Ribbon

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### Tabs

#### Start tab



## Design Tab



## Execute Tab



## Setup Tab



## The Quick Access Toolbar

**Below the Ribbon)**

**(  
Access Toolbar)**

**Add to Quick**

**Show**



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## The Universal Search Bar

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## The Designer Panel

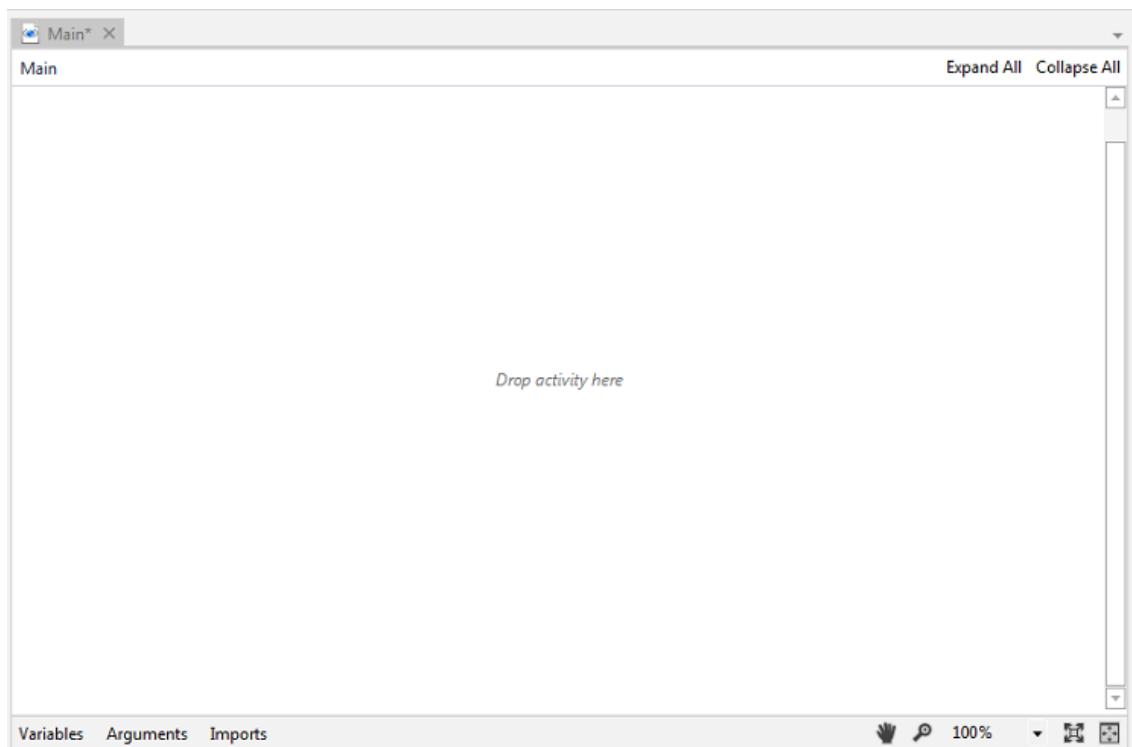
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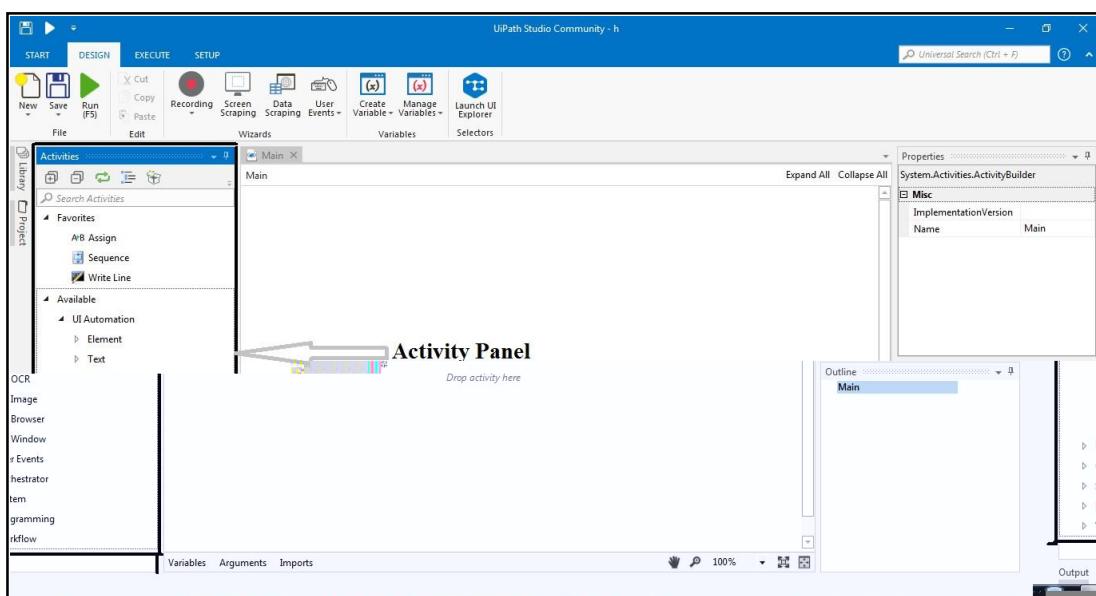
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# 6. UiPath - Understanding User Interface Components (Contd...)

## The Activities Panel

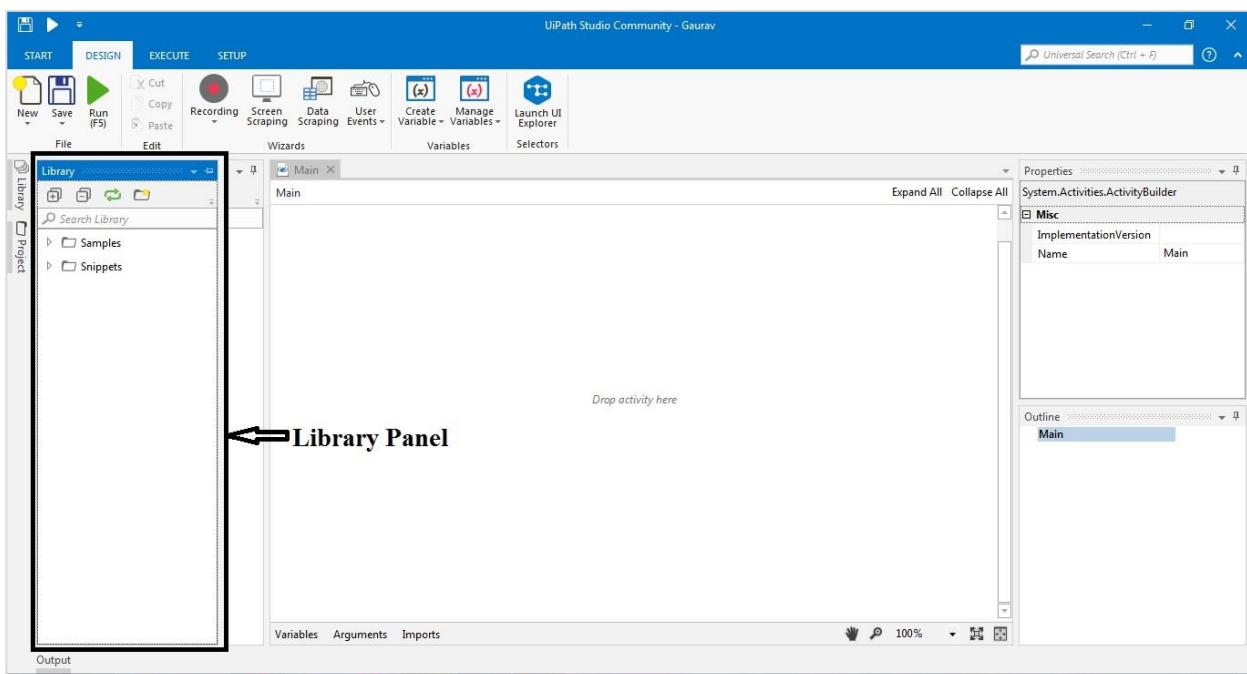
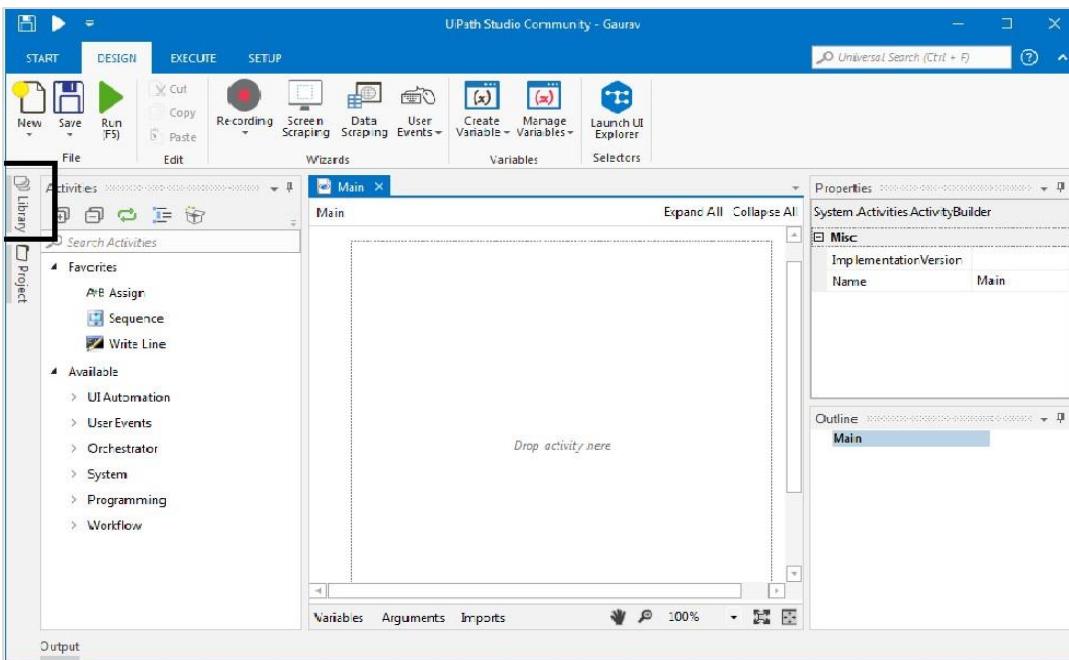
**Available      Compatibility      Favorite      Recent**  
**document)      Float      Dock      Auto Hide      Dock as**



In the above screen shot you can notice the activity panel.

## The Library Panel

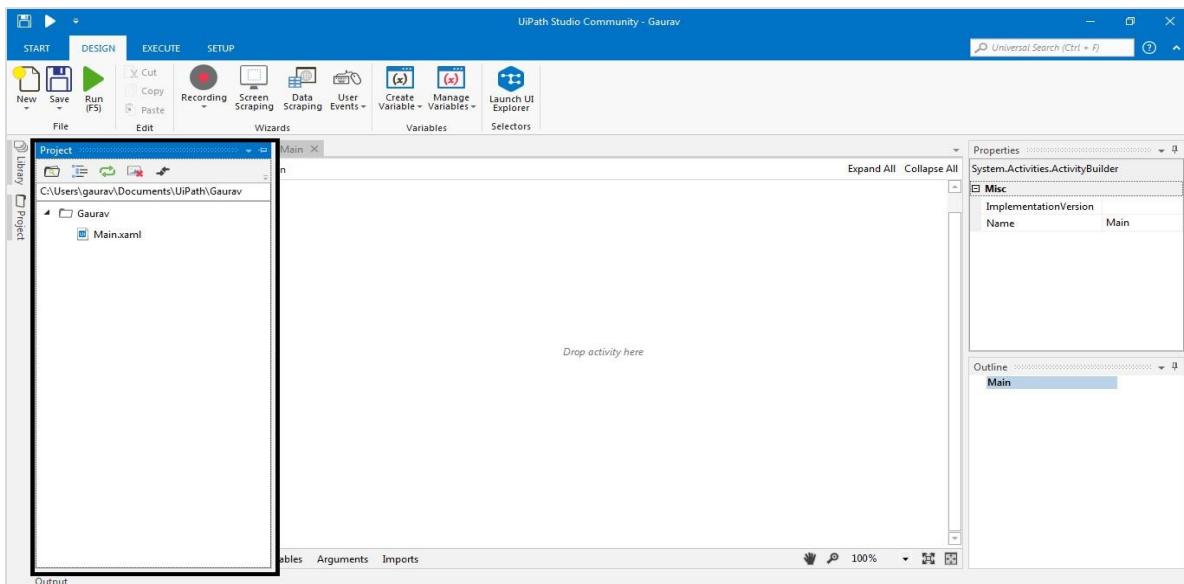
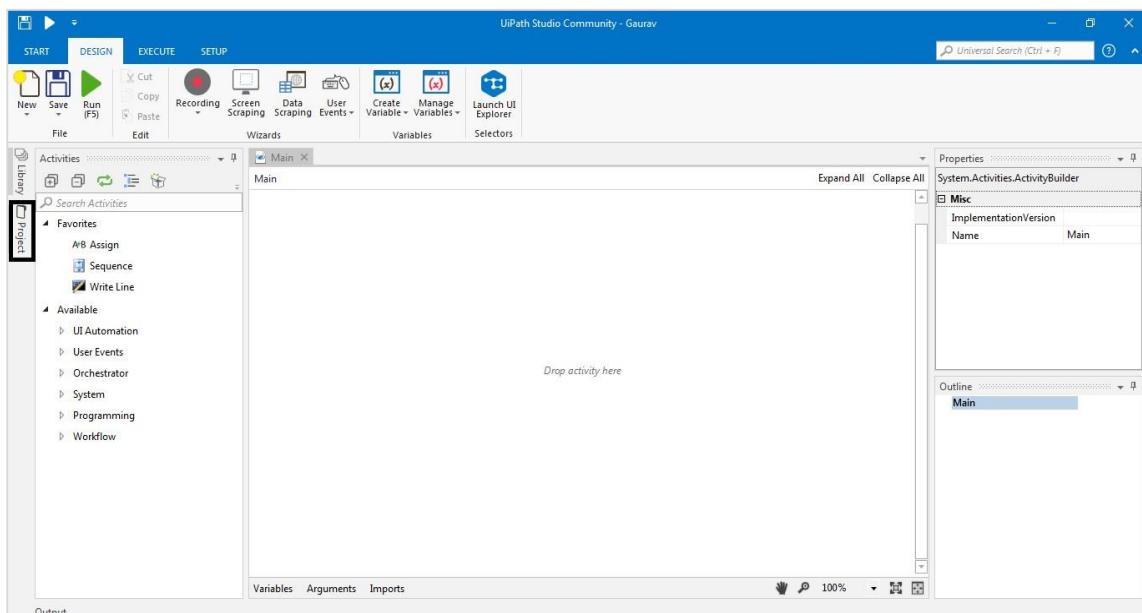
**Dock as document)      Float      Dock      Auto Hide**



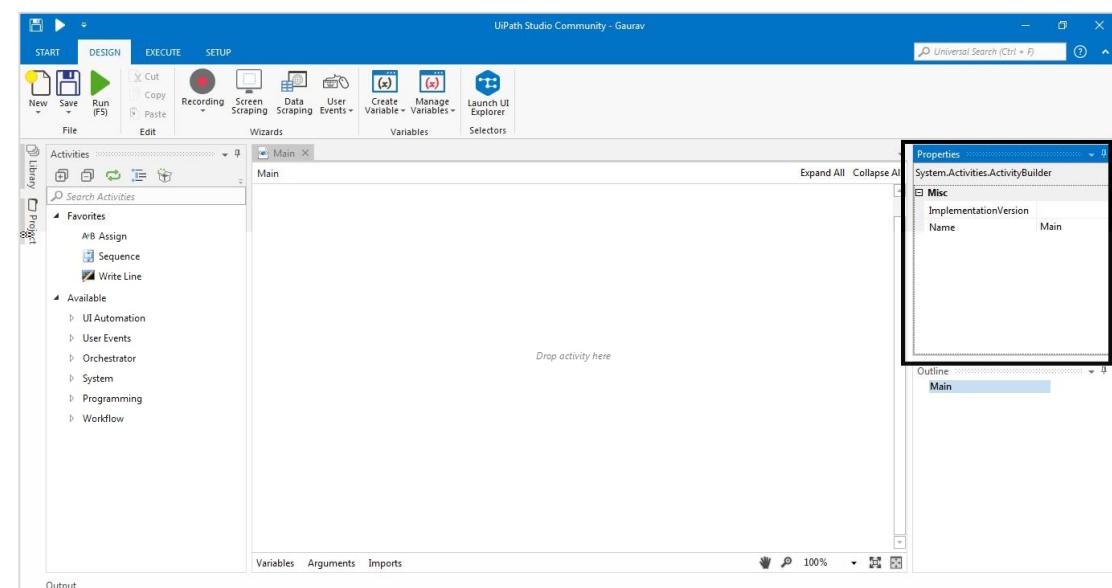
# The Project Panel

**Hide Dock as document**

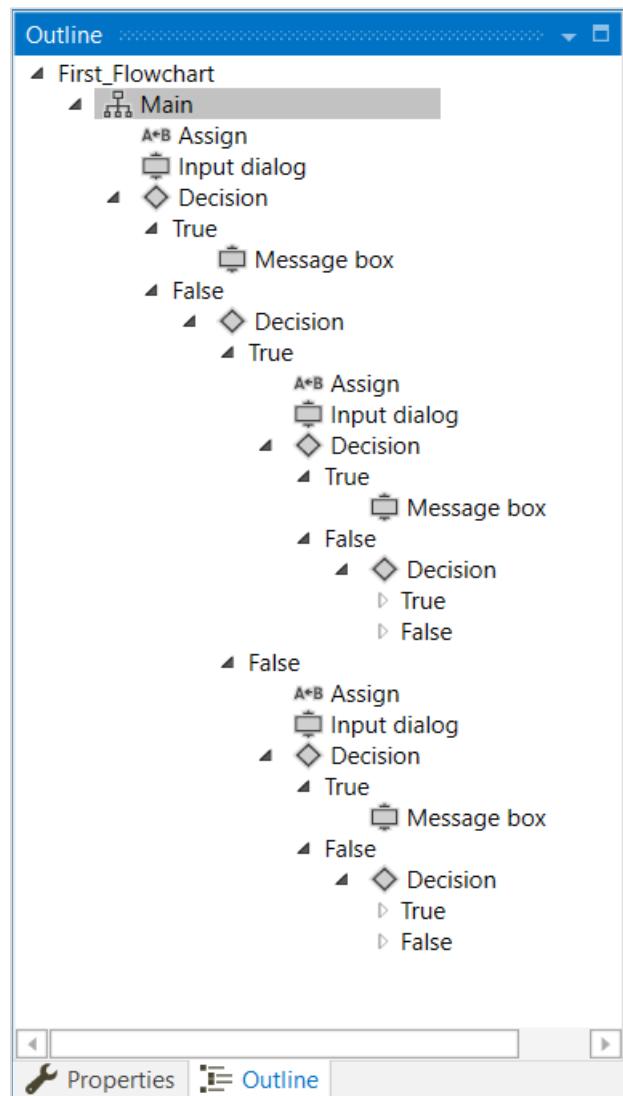
**Float Dock Auto**



## The Properties Panel

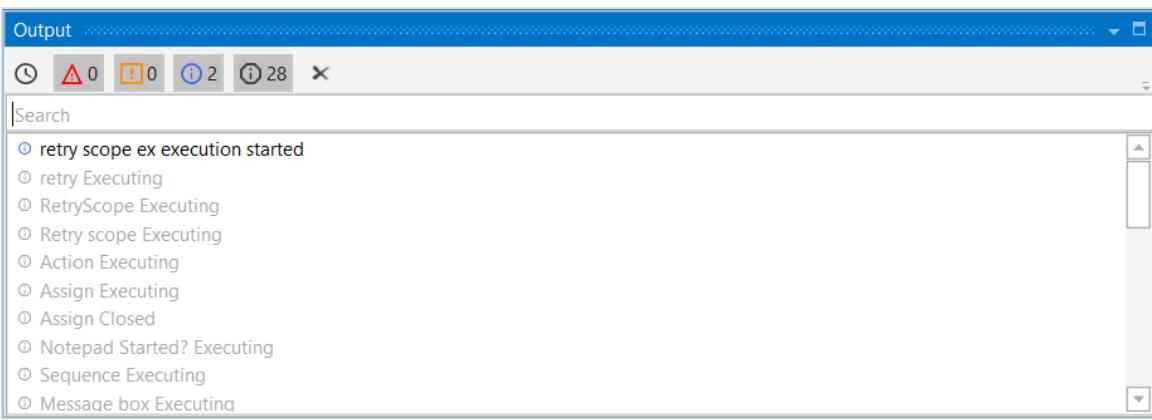


## The Outline Panel



## **The Output Panel**

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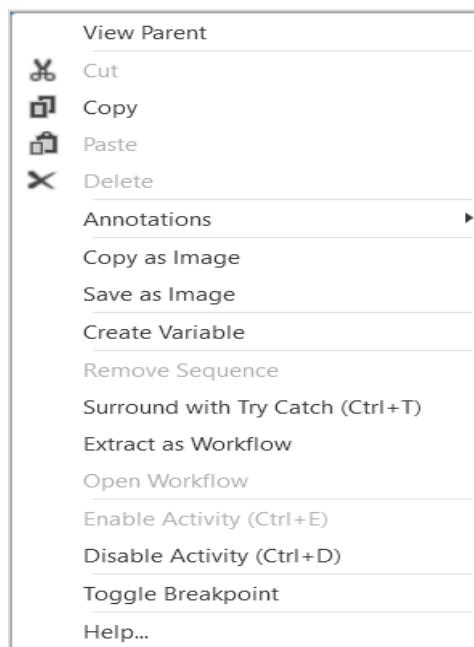
## The Locals Panel

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Name	Value
Generic1	[13]
String1	null
Datatable1	Column1,Column2text,1Text2,2
DataTable	Column1,Column2text,1Text2,2

# The Context Menu

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## Descriptions of Context Menu Fields

- **View Parent:**
- **Cut:**
- **Copy:**
- **Paste:**
- **Delete:**
- **Annotations:**
- **Copy as image:**
- **Save as image:**
- **Create variable:**

- **Remove Sequence:**)
- **Surround with Try and Catch:**)
- **Extract as Workflow:**)
- **Open Workflow:**)
- **Enable Activity (Ctrl+E):**)
- **Disable Activity (Ctrl + D):**)
- **Toggle Breakpoint:**)
- **Help:**)

# 7. UiPath Studio - Keyboard Shortcuts & Customization

## Keyboard Shortcuts

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- **Ctrl+Shift+N :** )
- **Ctrl+O :** .xaml project.json & )
- **Ctrl+L :** )
- **Ctrl+S :** )
- **Ctrl+Shift+S:** )

## Comments

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- **Ctrl+D** )
- **Ctrl + E** )

## Debugging

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- **F7:** )
- **F8:** )
- **F9:** )
- **Shift + F9:** )

- **F11:** ) )
- **Shift + F11:** ) )

## Recording

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- **Alt+Ctrl+W:** )
- **Alt+Ctrl+B:** )
- **Alt+Ctrl+C:** )
- **Alt+Ctrl+D:** )
- **F2:** )
- **F3:** )
- **F4:** Default, AA and UIA )

## Workflow Execution

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- **F5:** )
- **F12:** )

## Selected Activity

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- **Ctrl + T:** TRY-CATCH ) **TRY**
- **Ctrl + N:** )
- **Ctrl + C:** ) )
- **Ctrl + V:** ) )

## Customization of Keyboard Shortcuts

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### **Important points to remember for keyboard shortcuts customization**

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- **Location of supported keyboard shortcuts:**

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)  
)

C:\users\username\AppData\UiPath\Uipath\keyboardmappings.xml.  
ml.)

- **What to edit:**

- **<Key> </Key>**  
)  
○ **<Modifiers> </Modifiers>**  
)

## Steps for Keyboard Shortcuts Customization

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**Step1:** )

**Step2:** **keyboardmappings.xml**  
&&)

**Step3:**  
**<Key> </Key>**  
**<Modifiers>**  
**</Modifiers>**)

**Step4:** **keyboardmappings.xml** )

## Example

**Alt+Ctrl+W**

)

)

keyboardmappings.xml - Notepad

```
<Key>F12</Key>
<Modifiers>None</Modifiers>
</InputGesture>
<Text IsNull="true" />
<IsEditable>false</IsEditable>
</KeyboardMapping>
<KeyboardMapping xmlns="http://schemas.datacontract.org/2004/07/orchestra.Models">
<CommandName>RecordWeb</CommandName>
<InputGesture xmlns:ct1="http://schemas.datacontract.org/2004/07/catel.windows.Input" graphid="22">
<Key>W</Key>
<Modifiers>Alt control</Modifiers>
</InputGesture>
<Text IsNull="true" />
<IsEditable>false</IsEditable>
</KeyboardMapping>
<KeyboardMapping value="http://schemas.datacontract.org/2004/07/orchestra.Models">
<CommandName>RecordBasic</CommandName>
```

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keyboardmappings.xml - Notepad

```
<Key>F12</Key>
<Modifiers>None</Modifiers>
</InputGesture>
<Text IsNull="true" />
<IsEditable>false</IsEditable>
</KeyboardMapping>
<KeyboardMapping xmlns="http://schemas.datacontract.org/2004/07/orchestra.Models">
<CommandName>RecordWeb</CommandName>
<InputGesture xmlns:ct1="http://schemas.datacontract.org/2004/07/catel.windows.Input" graphid="22">
<Key>Z</Key>
<Modifiers>shift Alt</Modifiers>
</InputGesture>
<Text IsNull="true" />
<IsEditable>false</IsEditable>
</KeyboardMapping>
<KeyboardMapping xmlns="http://schemas.datacontract.org/2004/07/orchestra.Models">
<CommandName>RecordBasic</CommandName>
```

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**Shift+Alt+Z)**

# 8. UiPath Studio - Automation Projects and their Debugging

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## Introduction

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## Working with Automation Projects in UiPath Studio

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C:\Users\Username\Documents\UiPath  
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### Main.xml file

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### Other .xaml files

) )  
**Main.xaml**  
**Main.xaml**)

### .screenshots folder

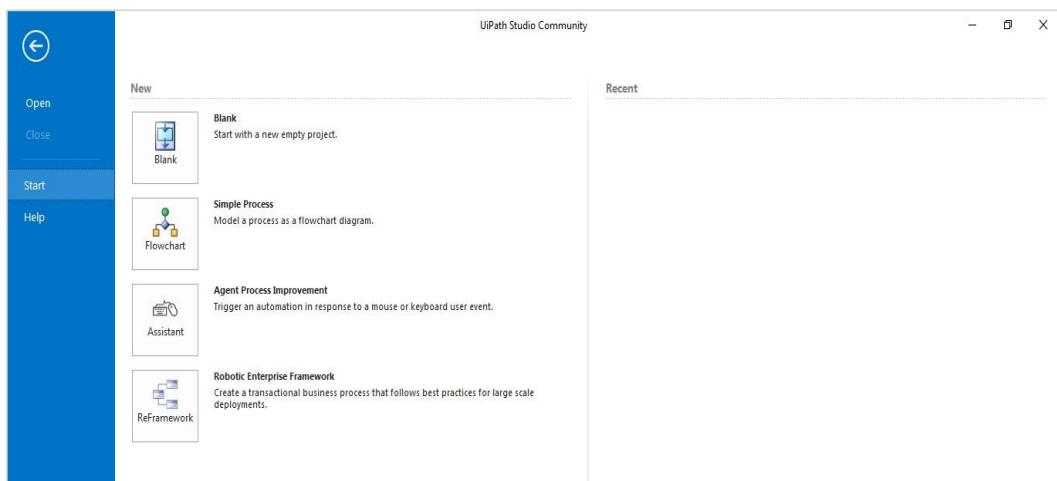
)

### Project.json file

**project.json** )

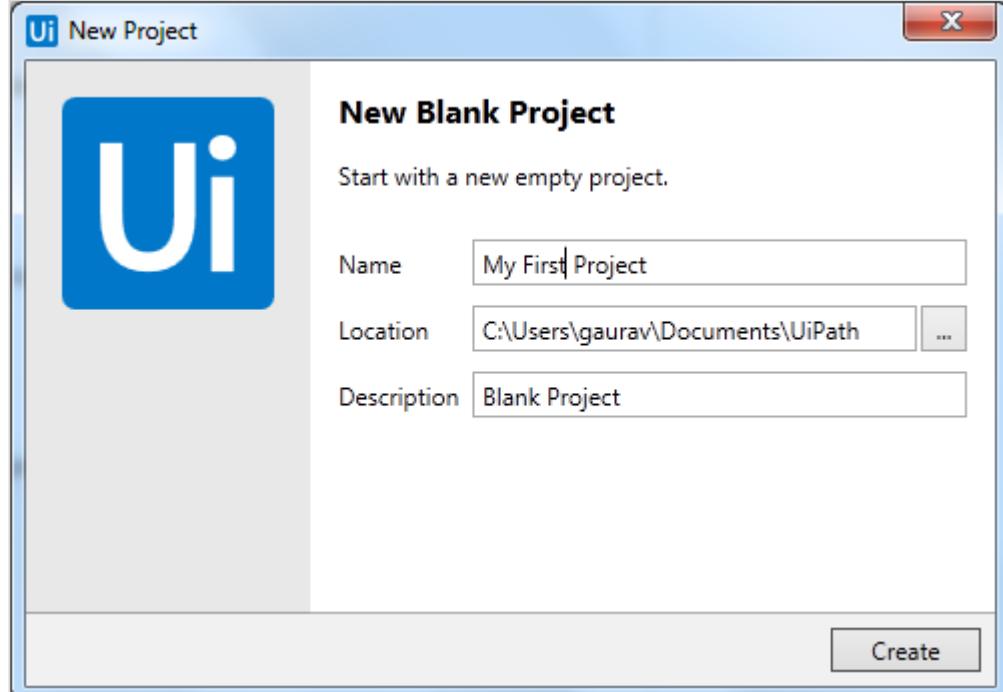
## Steps for Creating an Automation project

Step1:



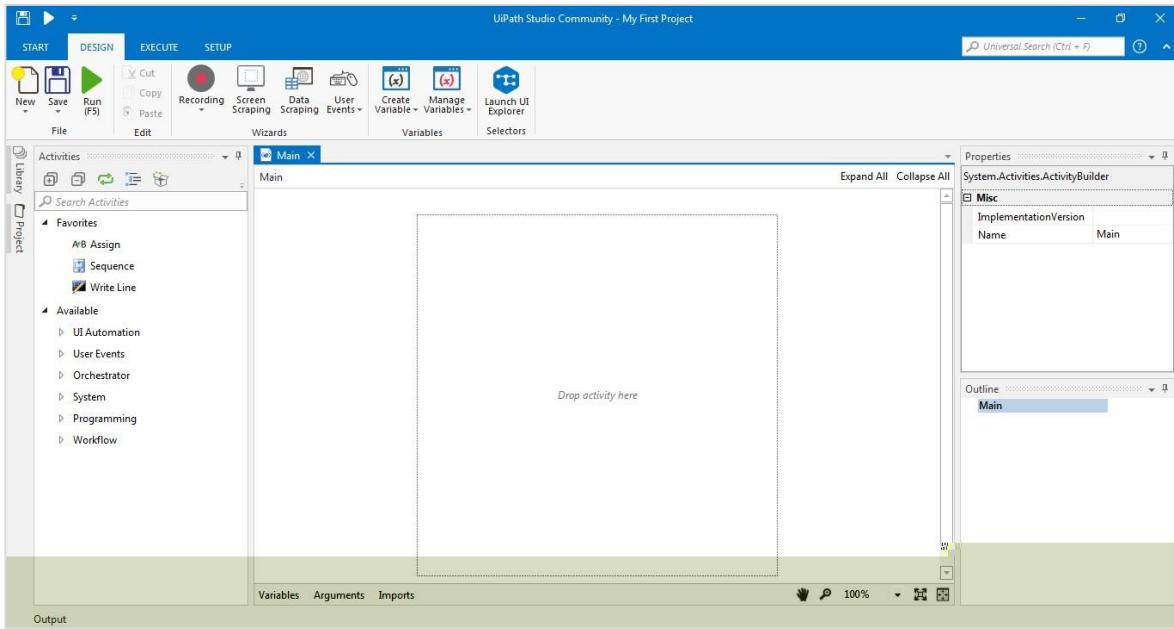
Step2:

"Blank Project"



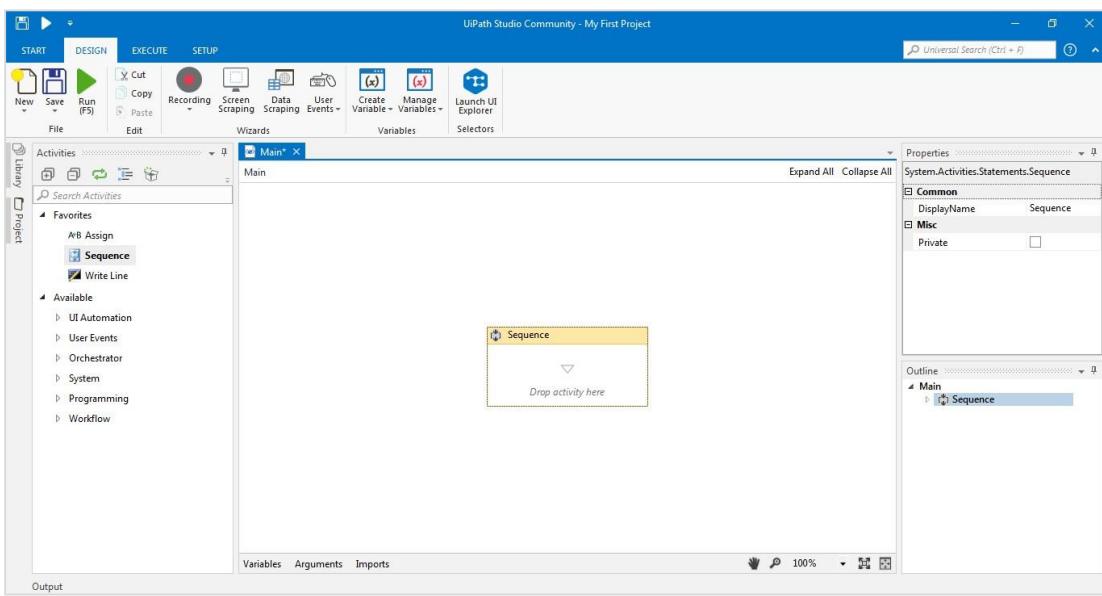
### Step3: N

)



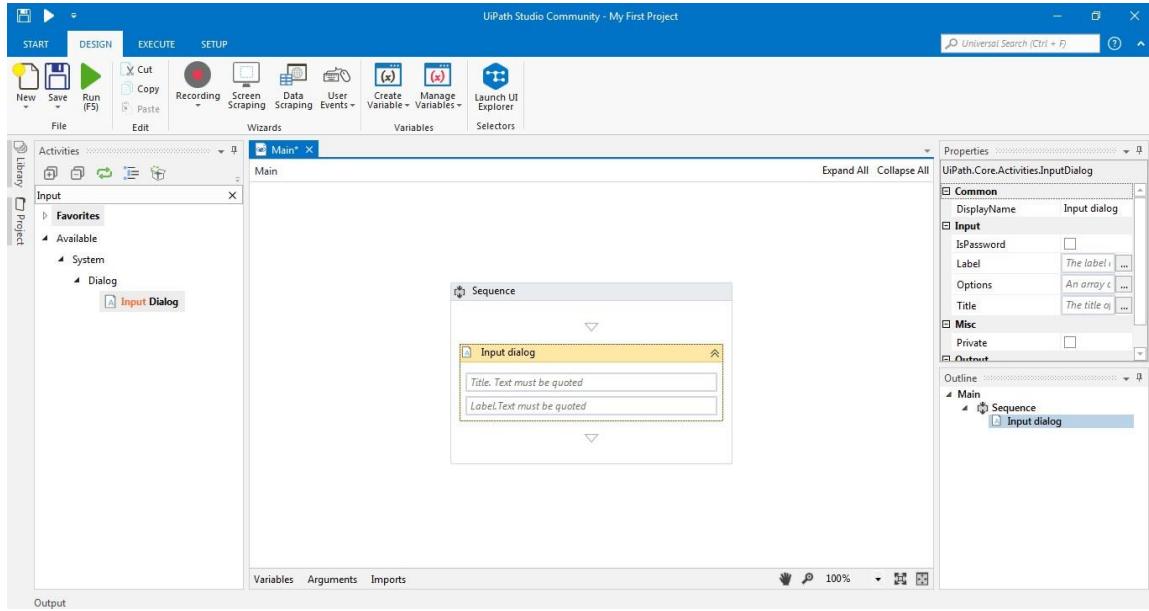
### Step4: Activity panel      Designer Panel

)



## Step5:

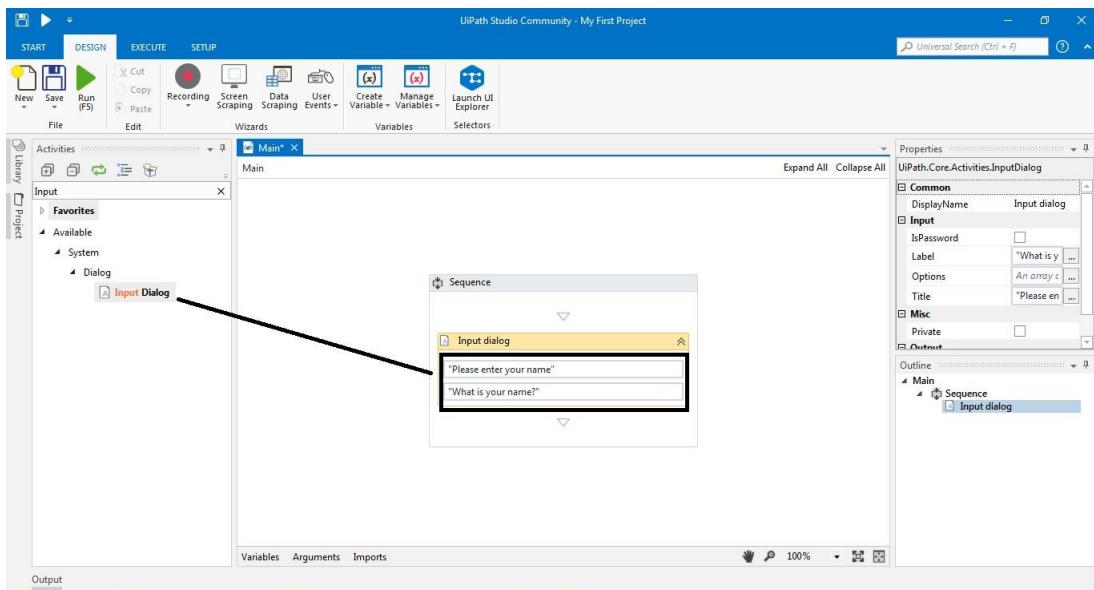
)



## Step 6: enter your name?"

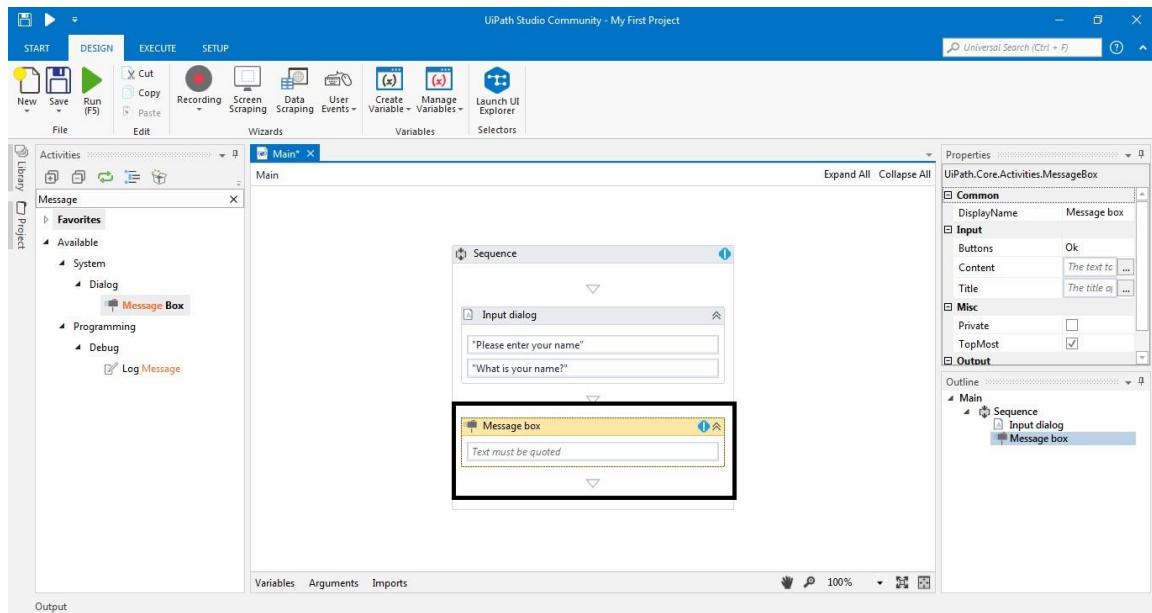
)  
"Please  
"What is your name?"

)



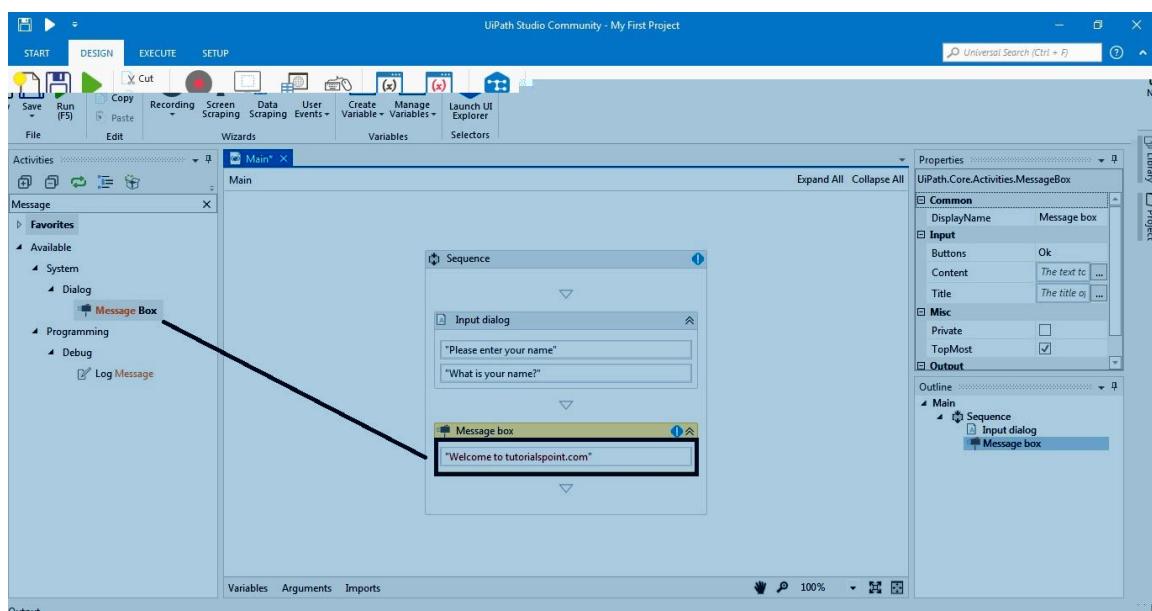
## Step 7:

\* )



## Step 8:

\* )



**Step9:**



## What is Automation Debugging?



## Functions of Debugging

- **Validate:**

)  
Validate      Execute )

- **Breakpoint:**

)  
Stop)      Step over  
Continue Debug)

- **Break:**

)

- **Step into:**

( ( ) )

- **Step over:**

)  
)

- **Slow Step:**

)  
)  
Step Into  
)  
)

- **Options:**

)

- **Highlight elements:**

)

- **Highlight activities:**

)

- **Log activities:**

)

- **Open Logs:**

)

)

## Steps for Performing Automation Debugging

---

**Step1:**)

**Step2:**)  
)

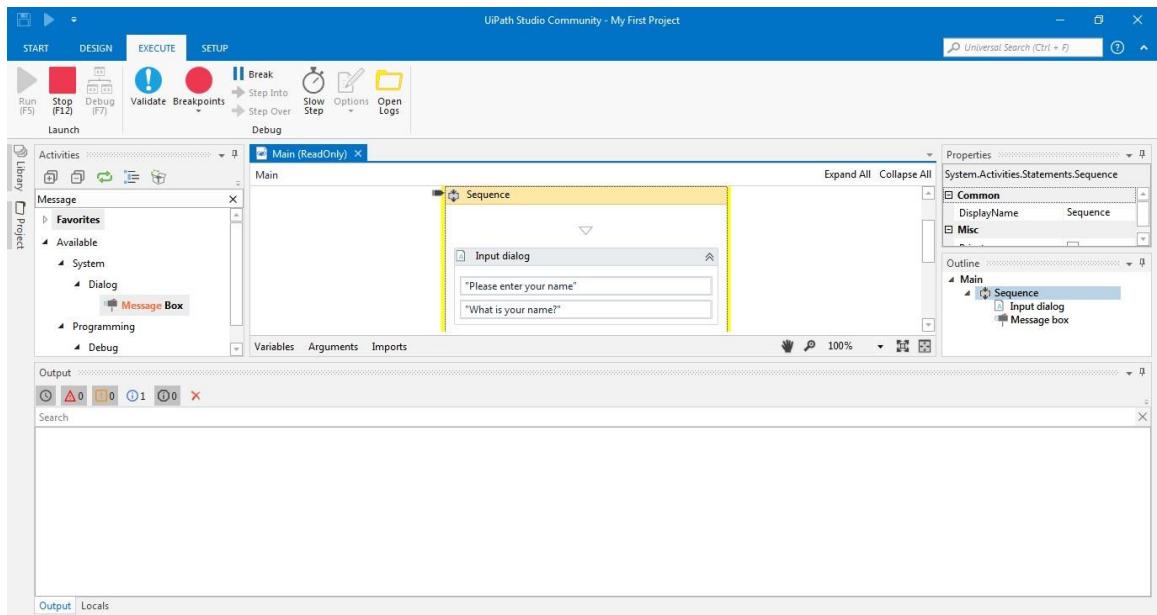


)

)

**Step3.**





)

)

# 9. UiPath Studio - Workflow Design

)  
)  
)

## Layout Diagrams

---

)

## Flowchart

)

( )

)

## Sequence

)  
)  
)

)  
)

## State Machine

) )  
)  
( )

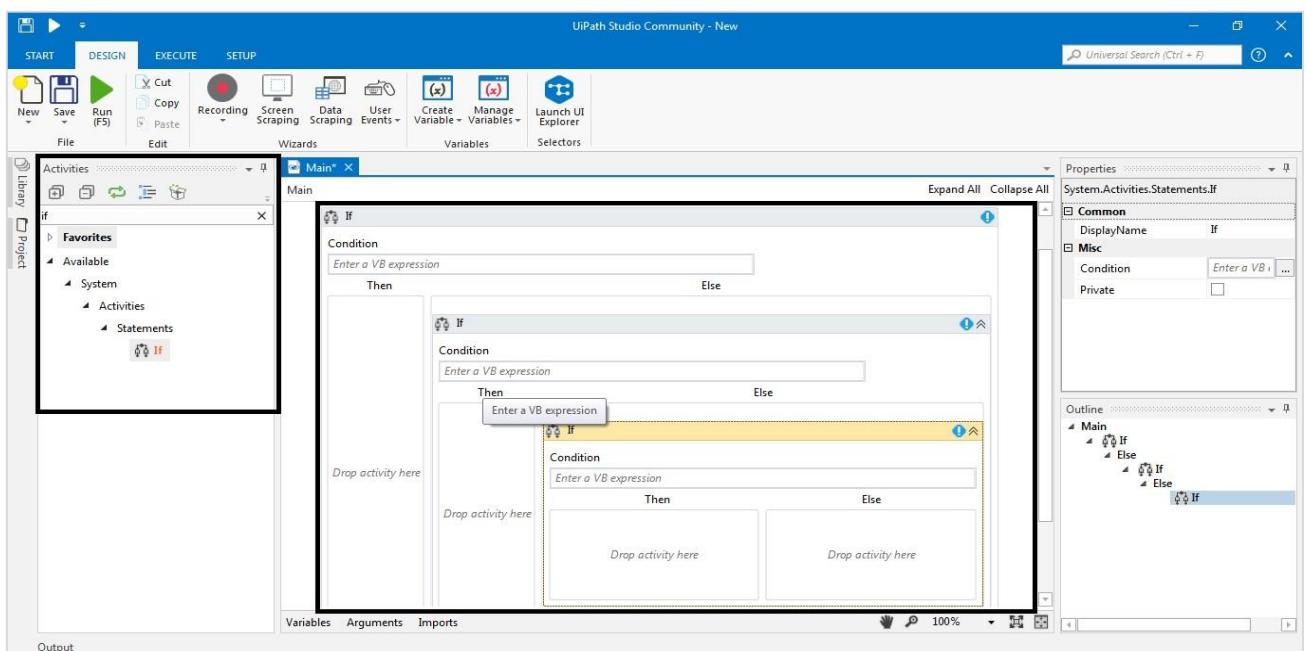
## Type of Decisions

---

)  
)  
)

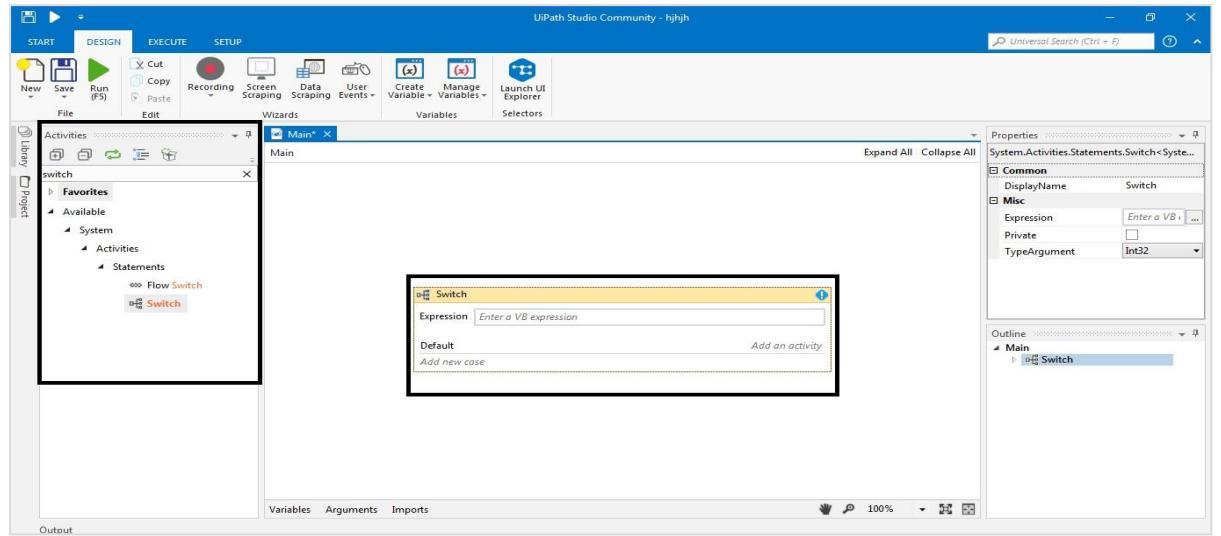
## If Activity

```
)  
    Then  
    Else)  
        Then"  
        Else  
)  
if'  
!      )  
    if  
)  
    if'
```



## Switch Activity

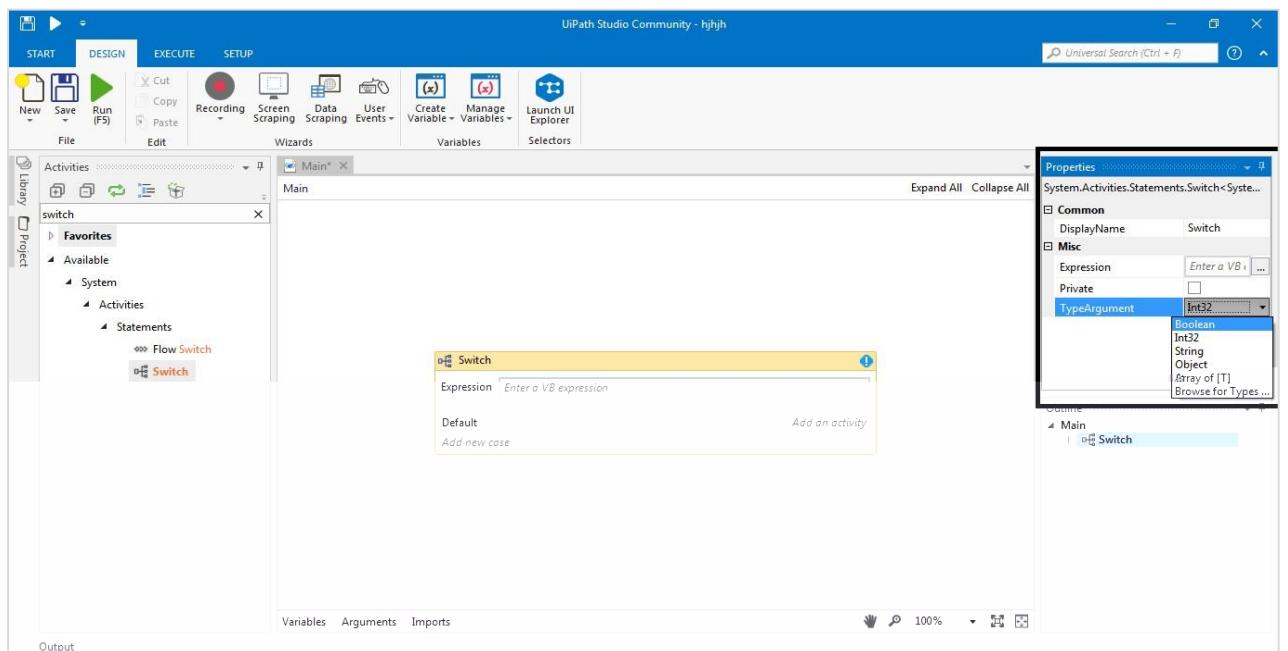
```
)  
if  
if...Else if'  
)  
    )  
    )  
    !  
)
```



**Boolean, Object, String etc.**

**Properties panel**

**TypeArgument**



## Flow Decision

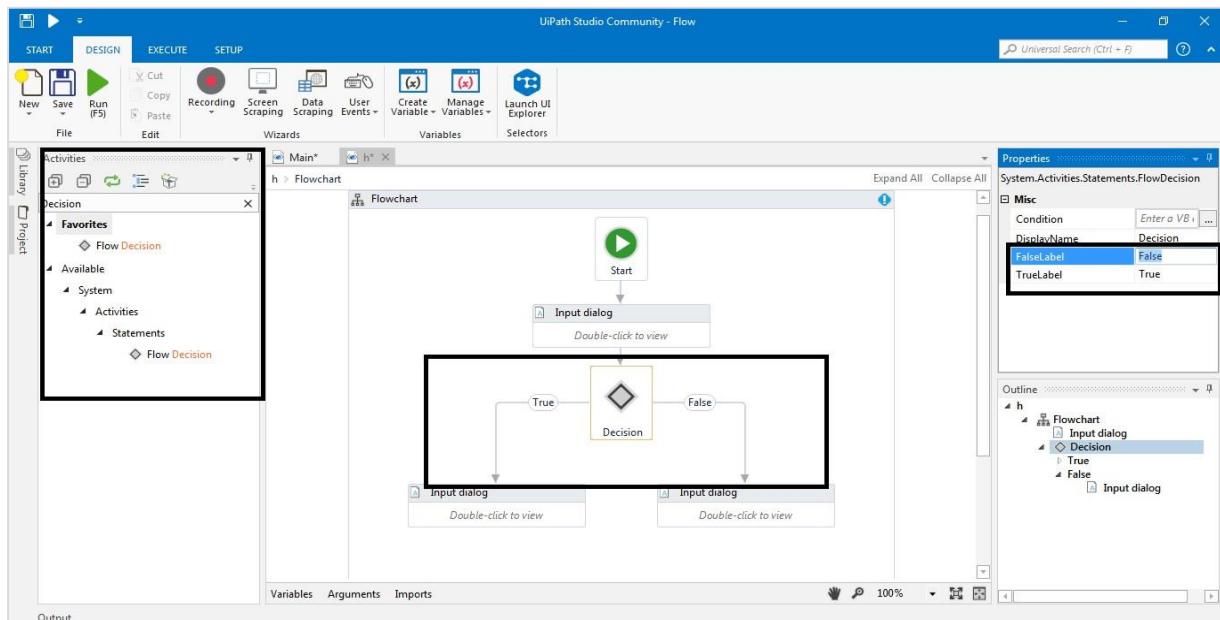
TRUE      FALSE)  
)  
Properties      )

If

)  
!  
)

TRUE      FALSE

)

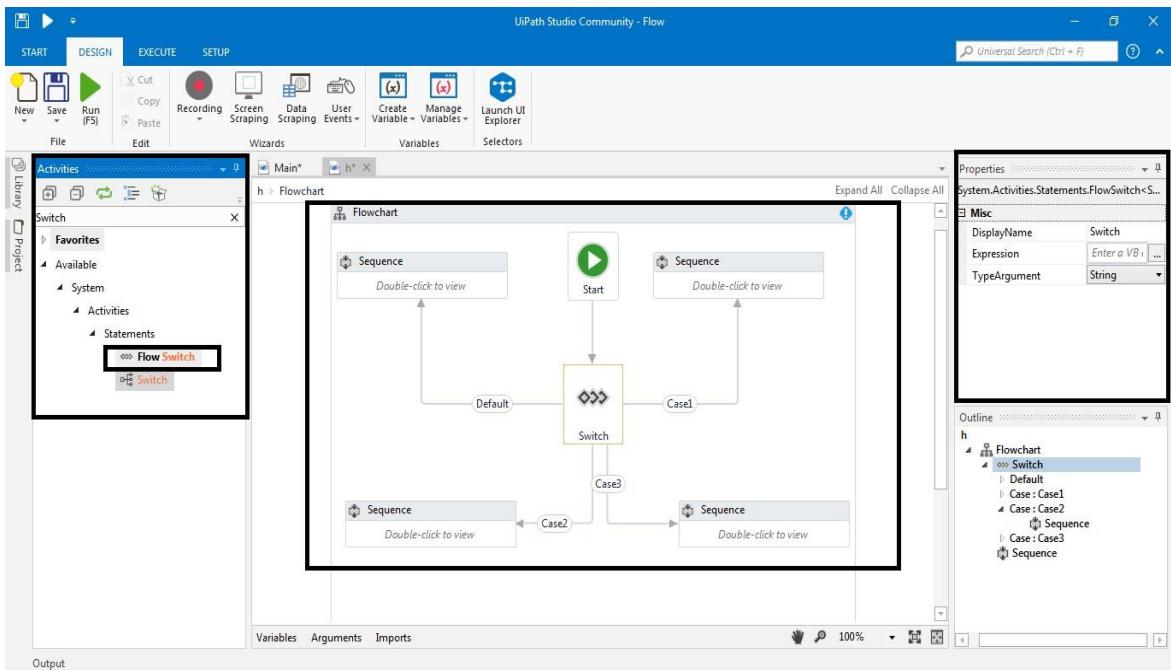


## Flow Switch

)

) , -

)



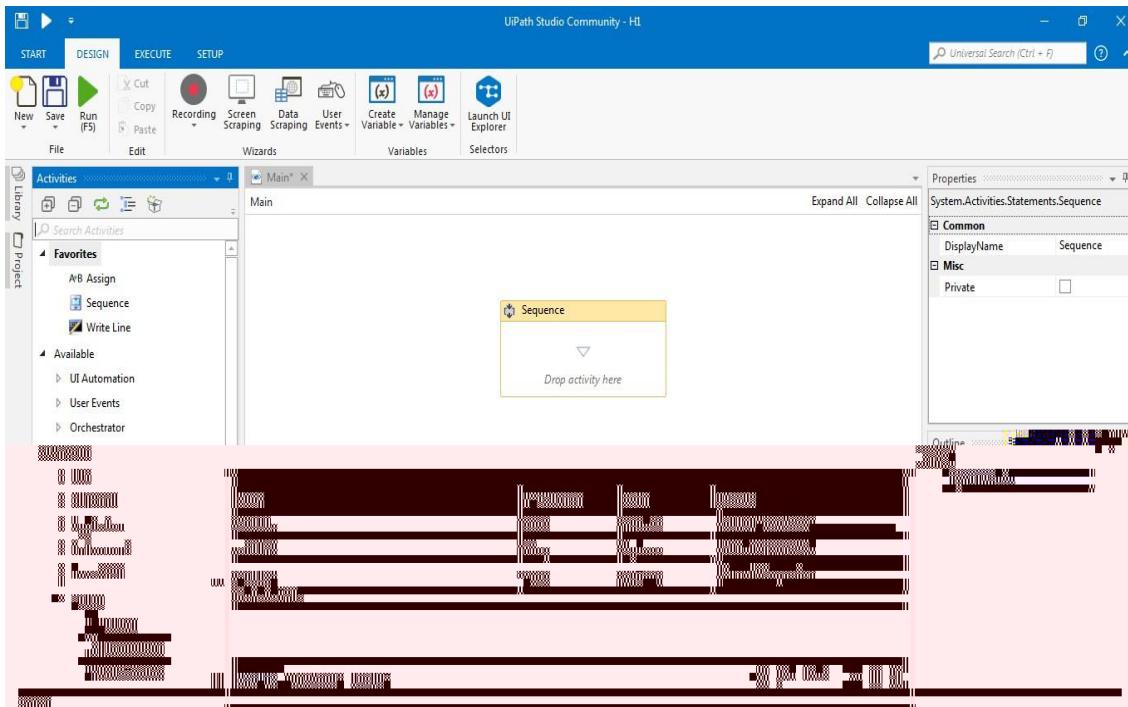
## Naming Conventions

- **Variables** ) FirstName LastName  
    )
  - **Arguments** ) in\_FileName, out\_FileName,  
    io\_DivideByZero     )
  - Delete activities )  
    Delete     )
  - ) TakeScreenshot ProcessTranslation.

# 10. UiPath Studio - Variables and Arguments

## Managing Variables in UiPath Studio

### The Variable Panel



**Variable Type, Scope and Default**

**Name,**

## Name

)  
)  
)

## Variable Type

)  
**Boolean, Int32, String, Object, Generic Value,**  
**Array of [T] and Browse of Types**      the Property panel  
)

## Scope

)  
**Sequence**  
)

## Default

)  
. - +)

## Types of Variables

---

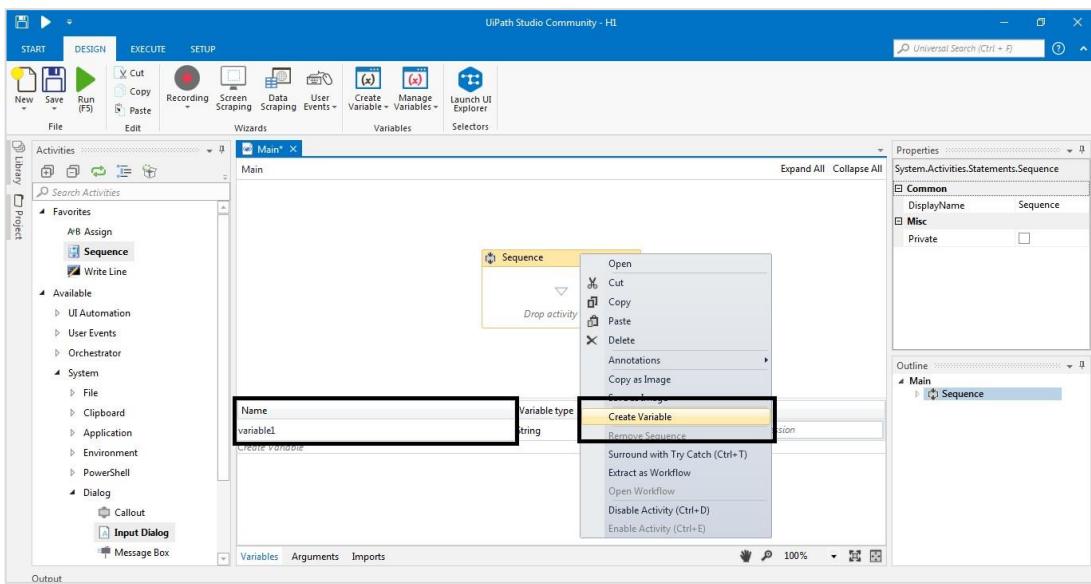
- **Text variables:**  
)  
**name, usernames** ),  
)
- **Boolean variables:**      **True**      **False**      )  
)
- **Integer variables:**  
. - ) ) )
- **Array variables:**  
)  
)
- **Date and Time variable:**  
)
- **Data Table variables:**  
)  
)

## How to Create Variables?

- By using option from Context menu:

)

**Create Variable.**



- By using Variable Panel:

)  
**create variable**

## How to Remove Variables?

### **Method 1**

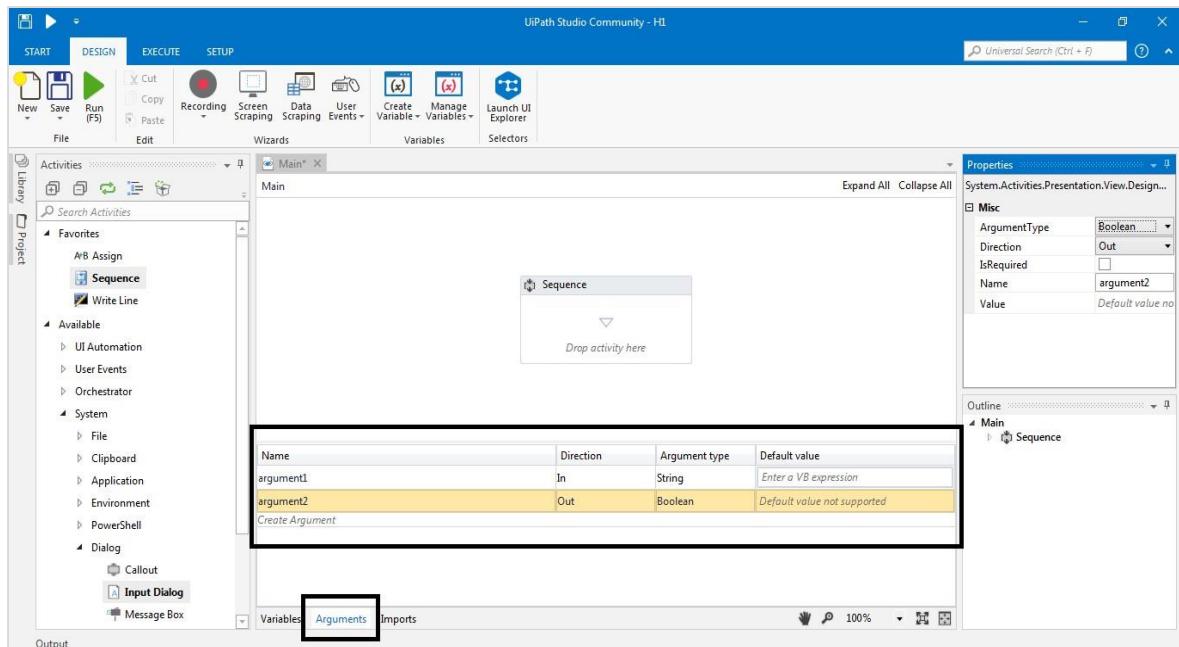
**"Delete"**

### **Method 2**

## Managing arguments in UiPath Studio

Generic value, text, number, data table, object,  
Boolean)  
In, Out, In/Out, Property)

## The Argument Panel



Name,  
Direction, Argument Type and Default

- Name:

- **Direction:**
  - **In:**)
  - **Out:**)
  - **In/Out:**)
- **Property:**)
- **Argument Type:**
  - ) **Boolean, Int32,**
  - String, Object, Generic Value, Array of [T] and Browse of Types**
  - the Property panel**.
  - )
- **Default:**)

## How to Use an Argument?

---

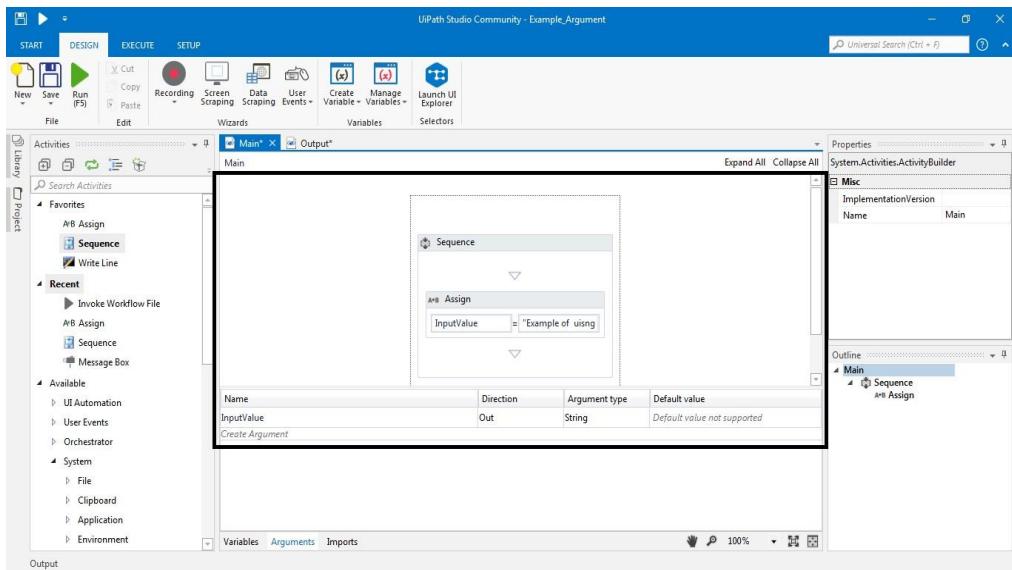
)

### Example

```

)
Step1: !
)
Step2: Arguments           inputValue
String   Out      )
Step3: !      Assign      )
Step4:           Assign
 inputValue    )          properties panel   Assign
                  inputValue   To      )
Step5:           " Example of using an argument!!"   Value
Properties      Assign      )

```



**Step6:**

**Design tab**

**New**

**Sequence**

)

**Step7:**

**strOutputValue**

)

**Step8:**

!

**Invoke Workflow File**

**Designer**

)

**Step9:**

**Invoke Workflow File**

)

**(...)**

**Step10:**

**Arguments**

)

**Invoke Workflow's Arguments**

**Import**

)

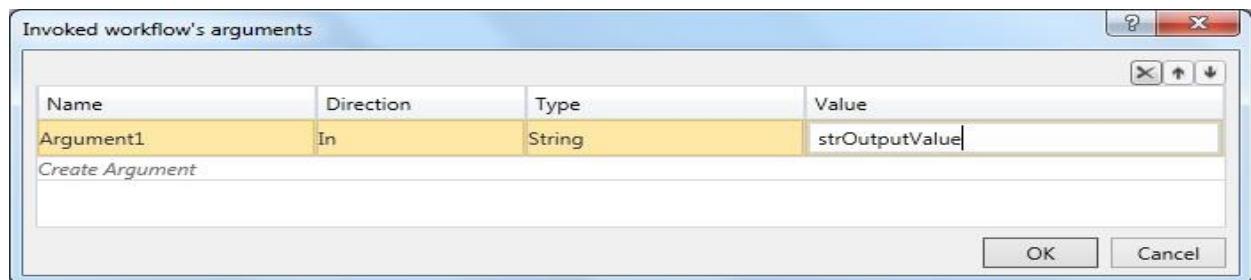
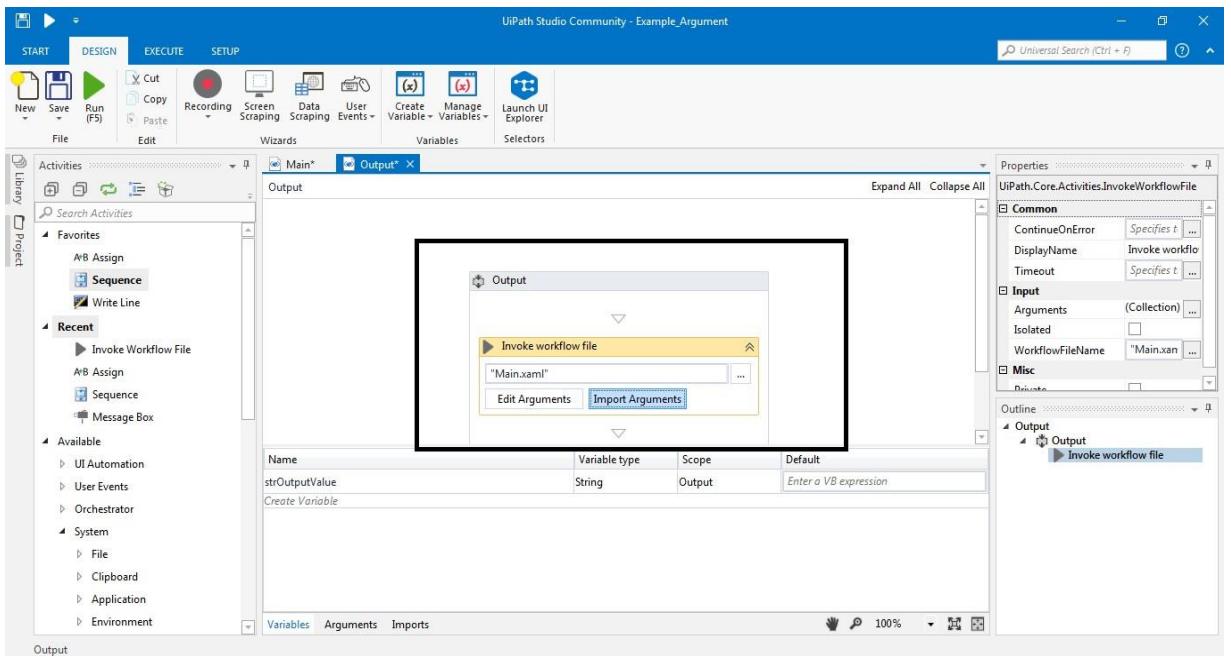
**strOutputValue**

**OK**

)

**strOutputValue**

)



**Step11:**  
**Designer**

**Step12:**

**Message Box**

**Invoke Workflow File**

)



# 11. UiPath Studio - Recording

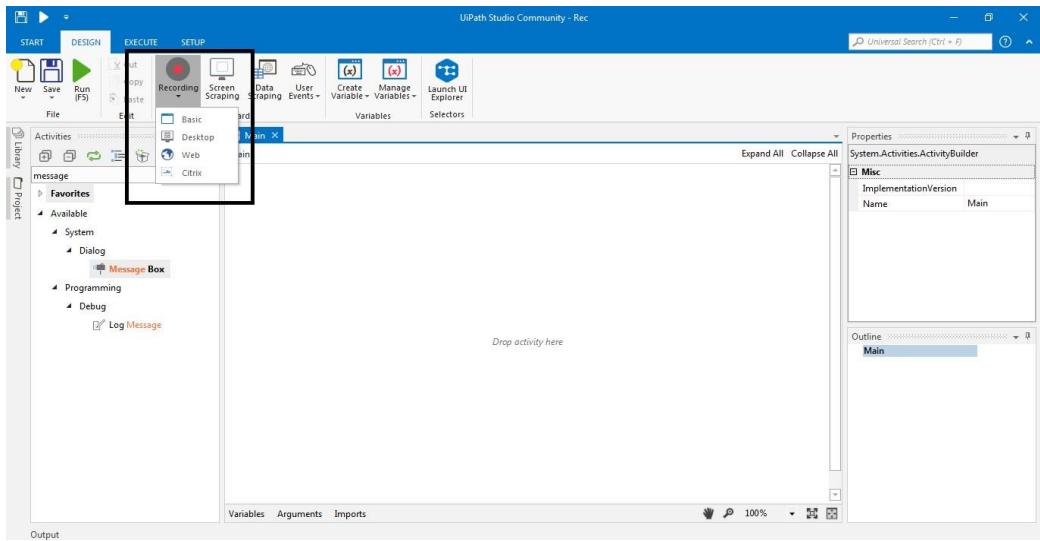
)  
)  
)

## Recording using UiPath Studio

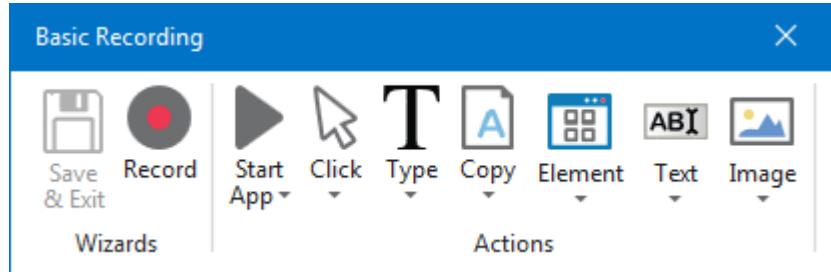
(	)
,	,
-	-
.	.
/	/

## Types of Recording

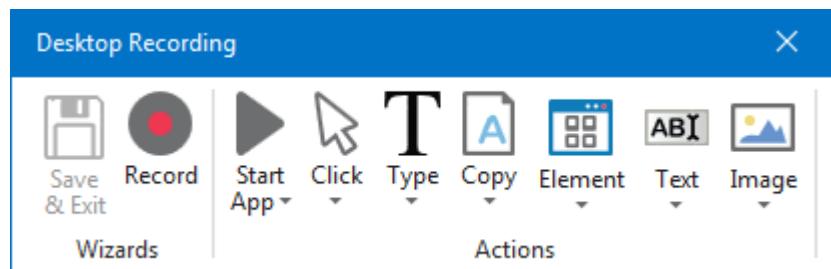
- 
- 
- 
-



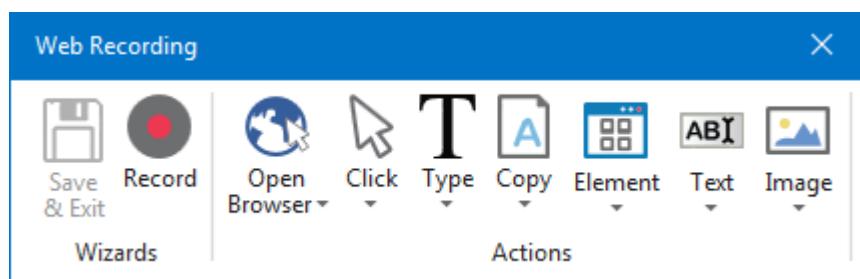
## Basic Recording



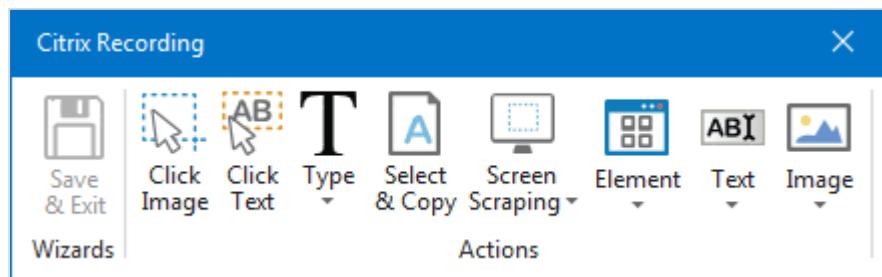
## Desktop Recording



## Web Recording



## Citrix Recording



## Automatic Recording

---

- **Click:**

)  
)

- **Type Into:**

)  
)

- **Check:**

)  
)

- **Select Item:**

( )  
)

## Example of Basic Automatic Recording

---

**Step1:**

)

**Step2:**

)

**Step3:**

**Basic Recording**

**Recording tab**

**Design ribbon tab)**

)

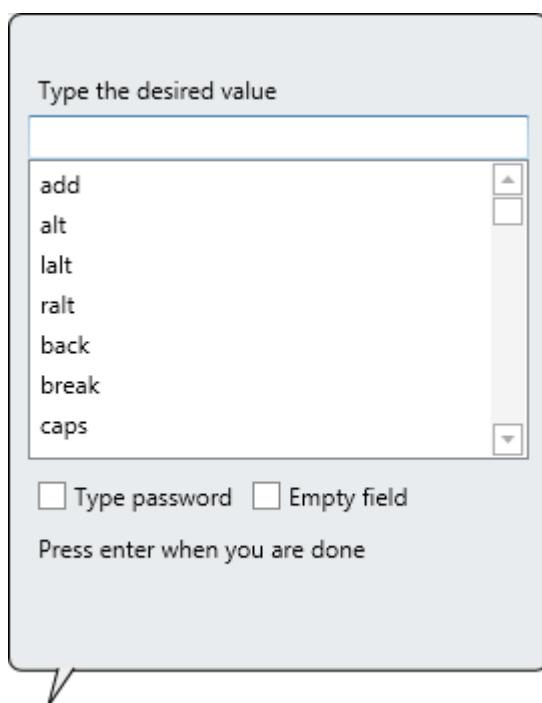
**Step4:**

**Record**

)

**Step5:**

(



**Step6:**

)

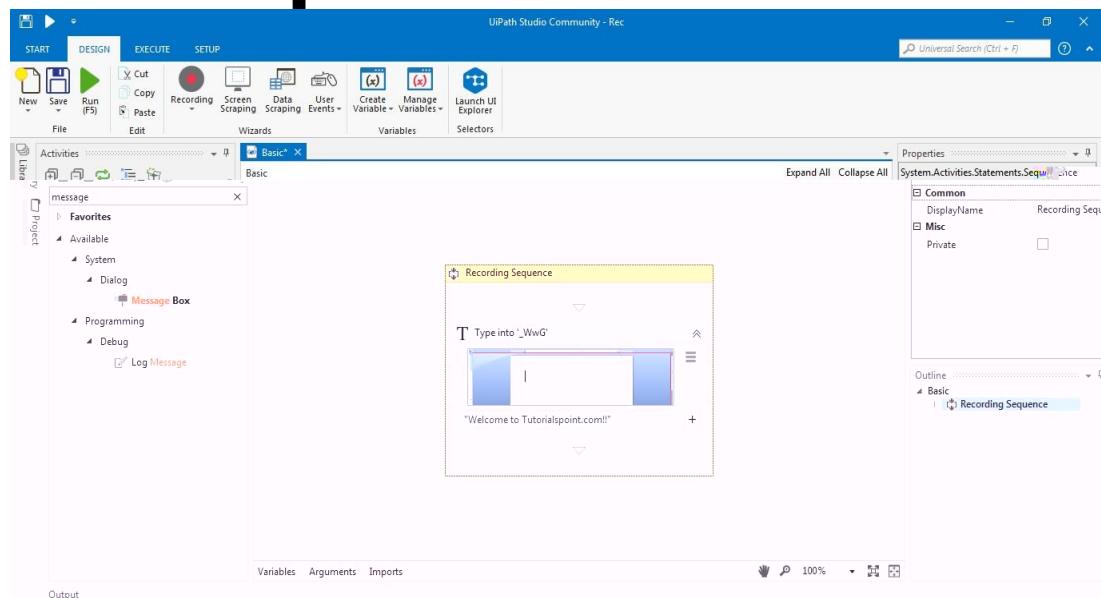
)

**Step7:**

)

)

## Step8:



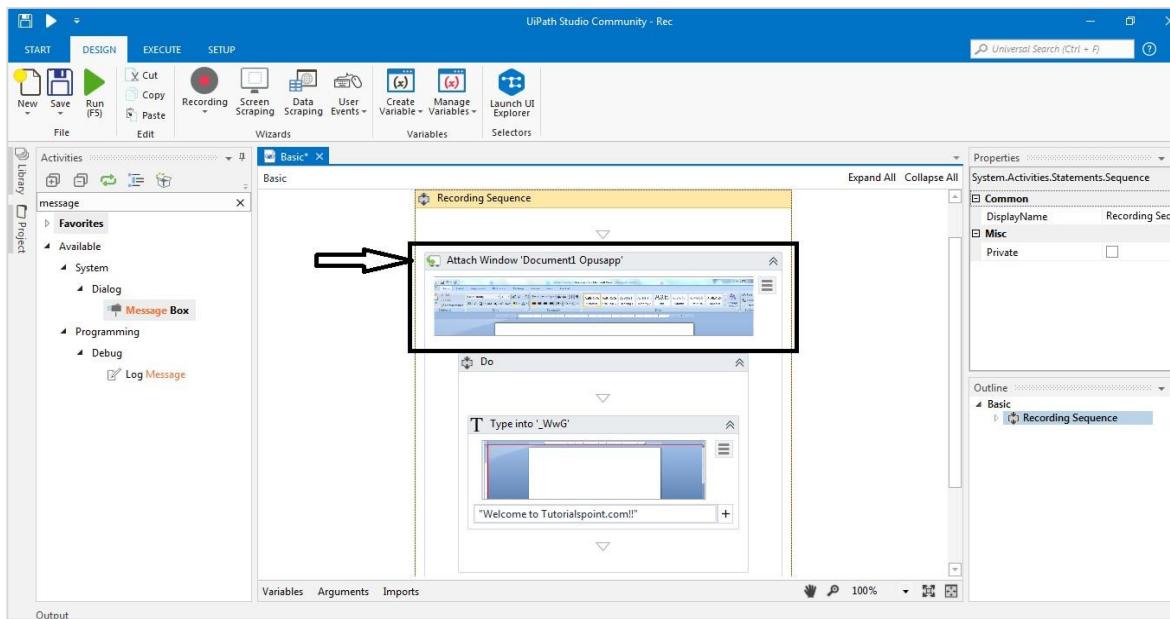
## Example of Desktop Automatic Recording

Desktop Recording

Recording tab

Design ribbon tab)

Attach Window.



## Example of Web Automatic Recording

---

**Step1:**

)

**Step2:**

)

**Step3:**  
**tab)**

**Web Recording**

**Recording tab**

**Design ribbon**

)

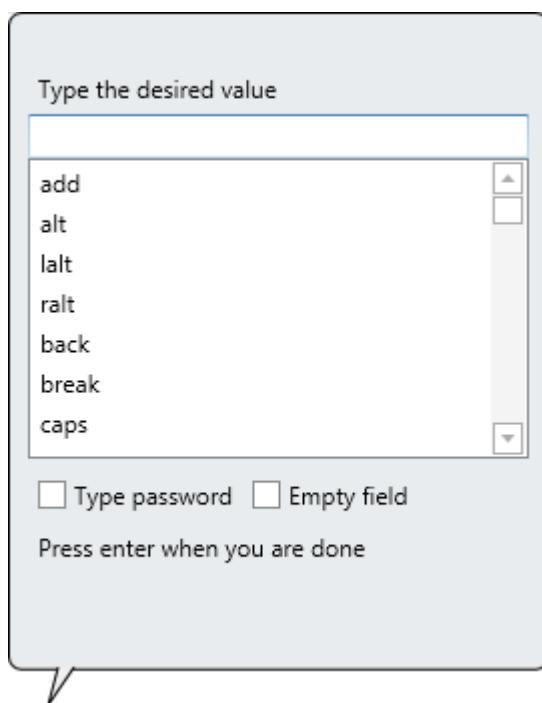
**Step4:**

**Record**

)

**Step5:**

(



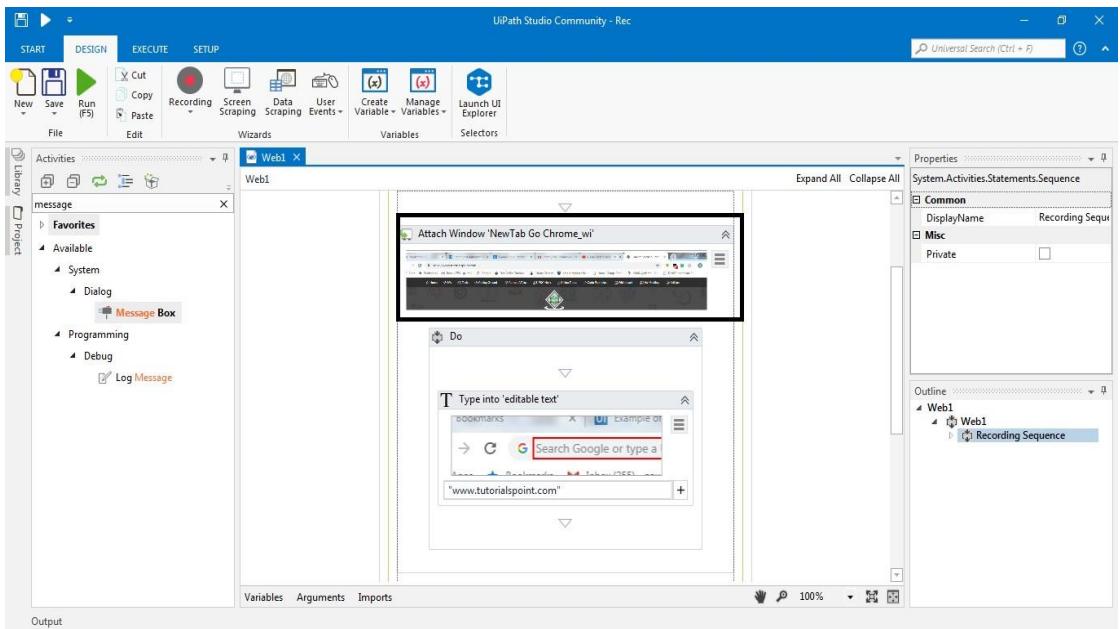
**Step6:**

)

)

**Step7:**

)



### Step8:

## Manual Recording

### Types of Manual Recordings

#### Start and Stop an App or Browser

#### Click

- 
- 
- 

#### Type

)  
)

## **Copy**

```
)  
)  
)
```

## **Mouse Elements**

```
(  
)
```

## **Windows Elements**

```
)
```

## **Text**

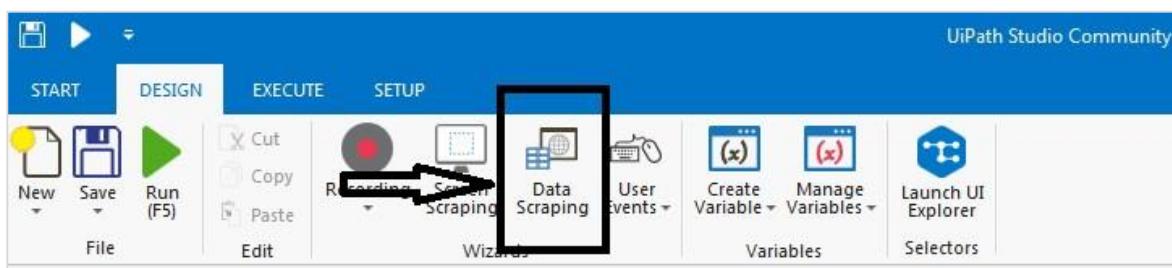
- 
- 
- 

## **Image**

- 
- 
- 
-

# 12. UiPath Studio- Data Scraping and Screen Scraping

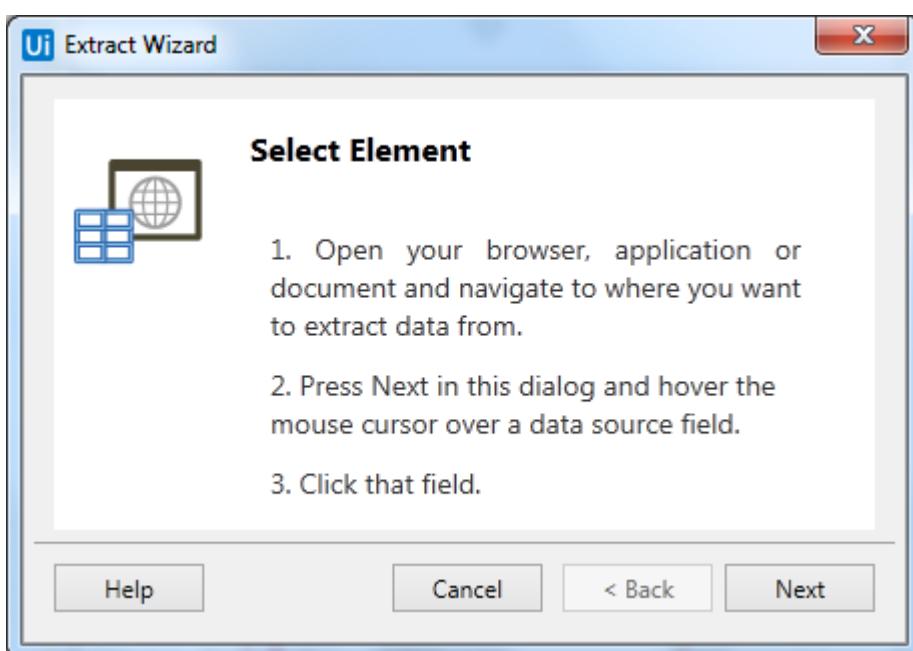
## What is Data Scraping?



## Steps for using Data Scraping Wizard with Example

**Step1:**

**Step2:**

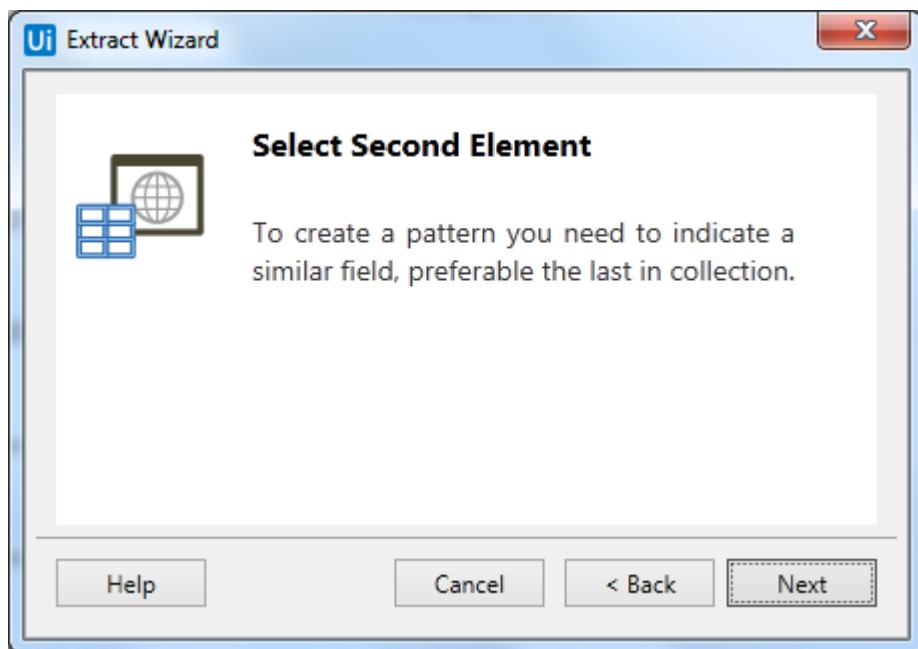


**Step3:**            'Next'

)

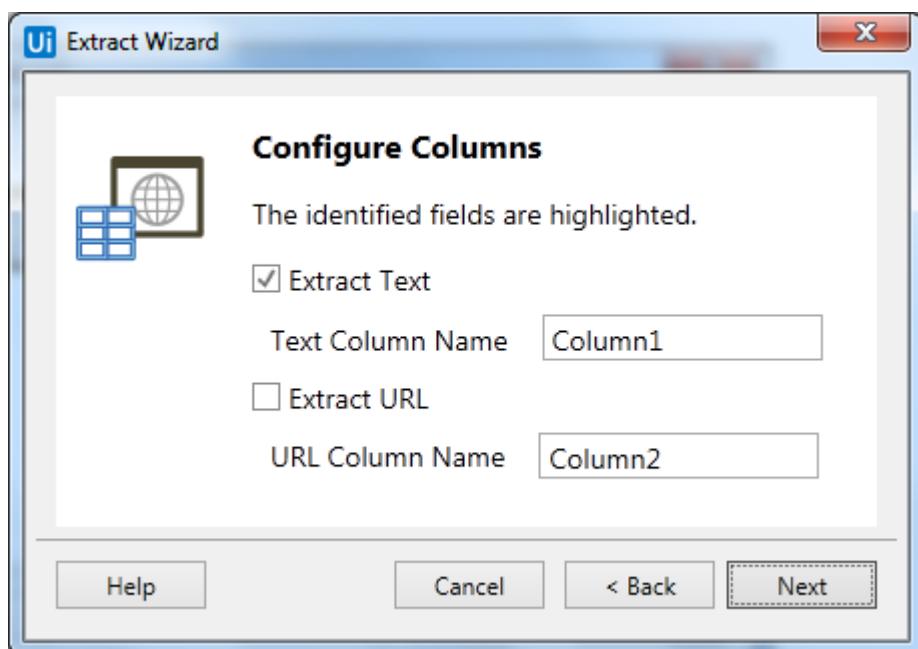
)

**Step4:**



**Step5:**

)



)

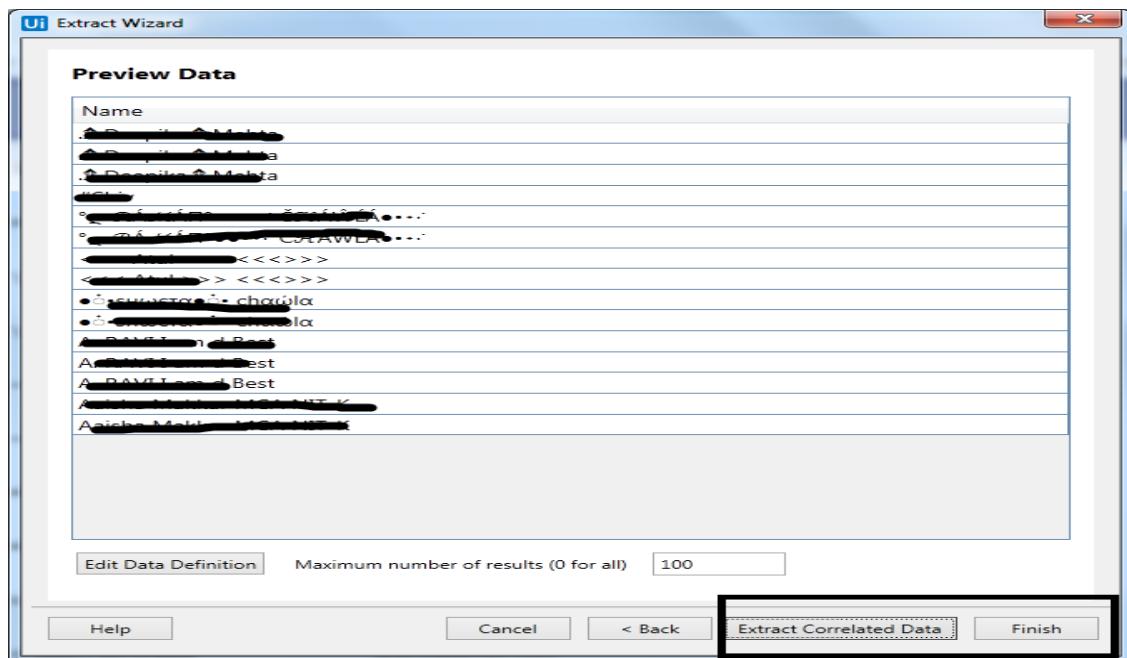
,

)

## Step6

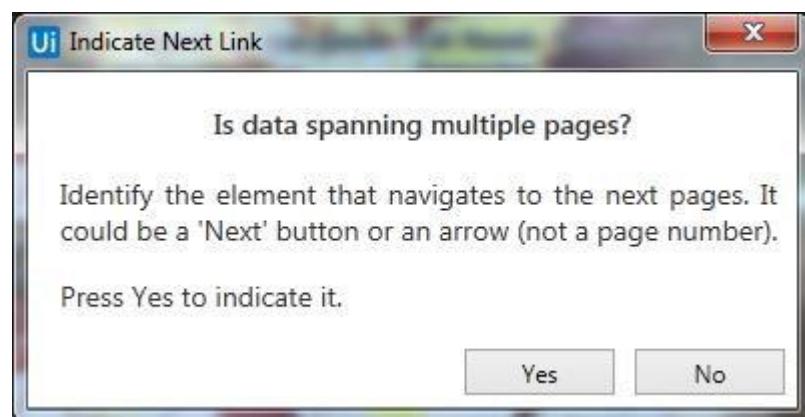
)

)  
)

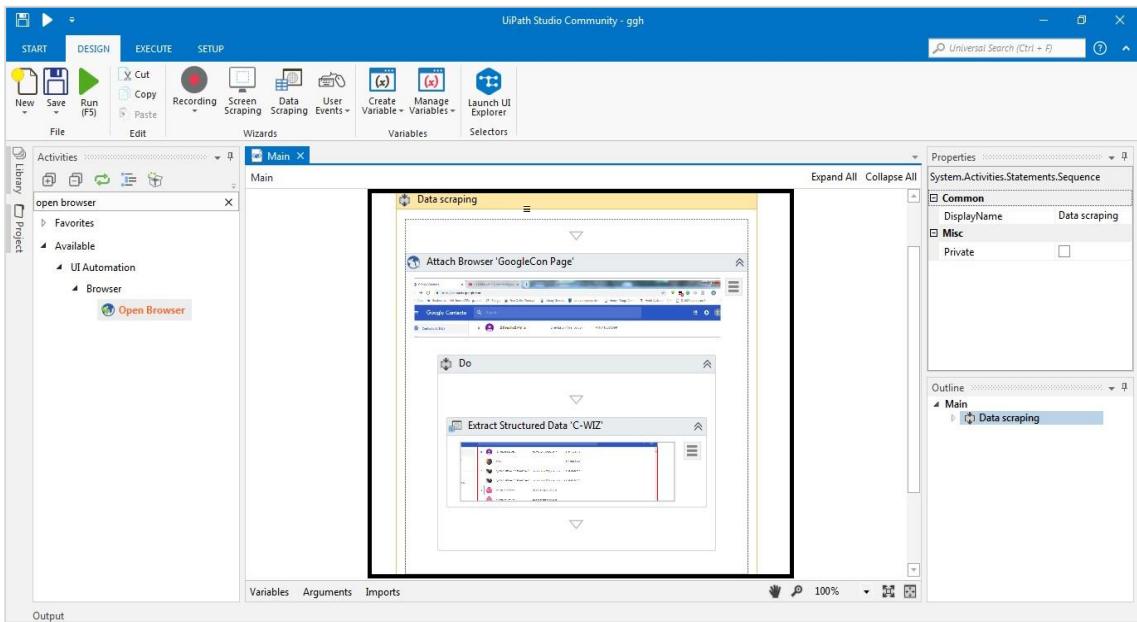


## Step7:

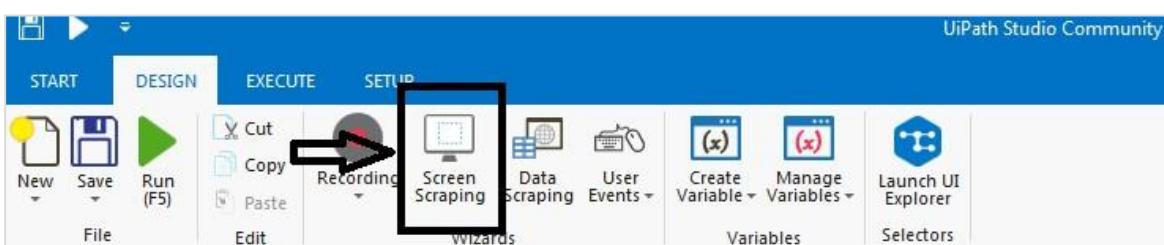
)  
)



## Step8:



## What is Screen Scraping?



## Screen Scraping Methods

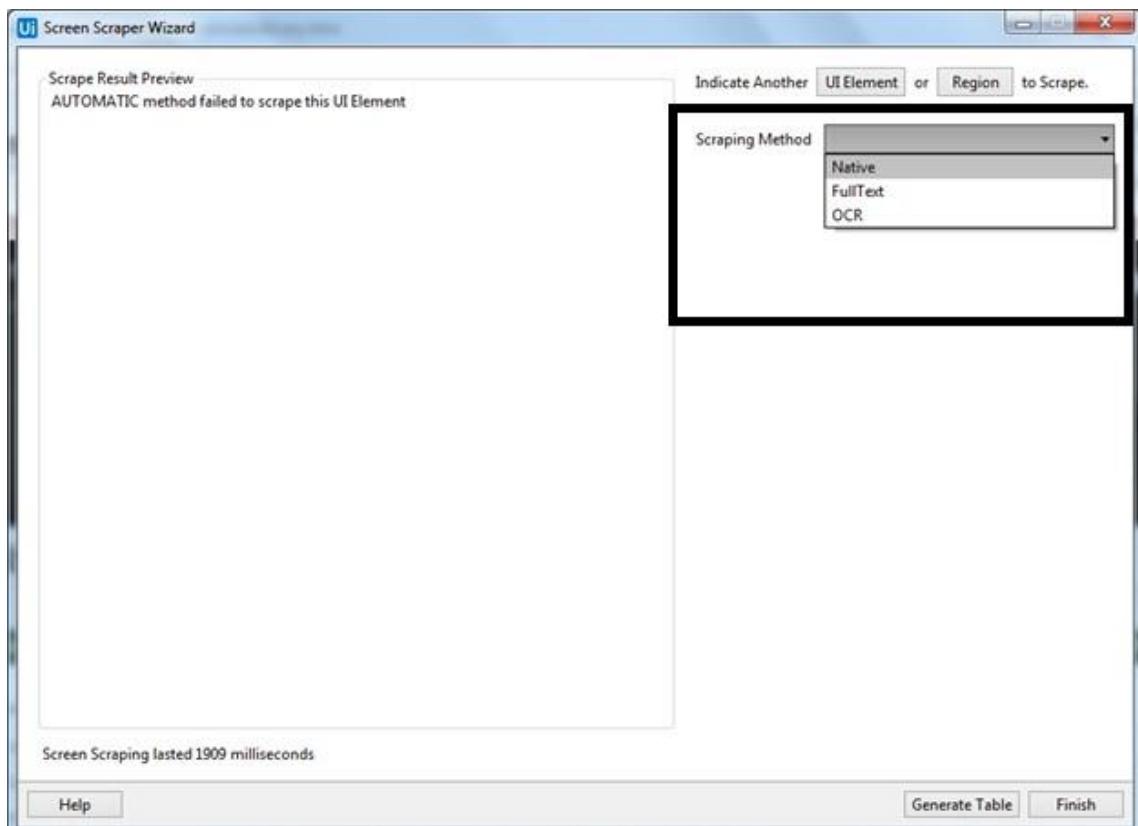
**Scraping Method**

**Designer panel)**

**Finish button)**

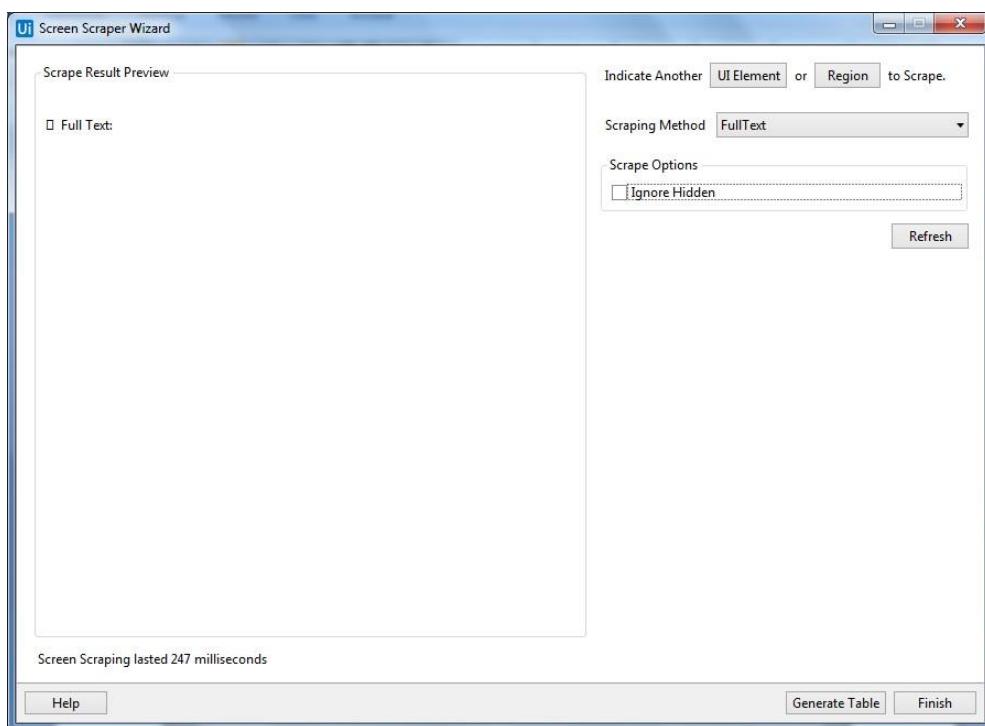
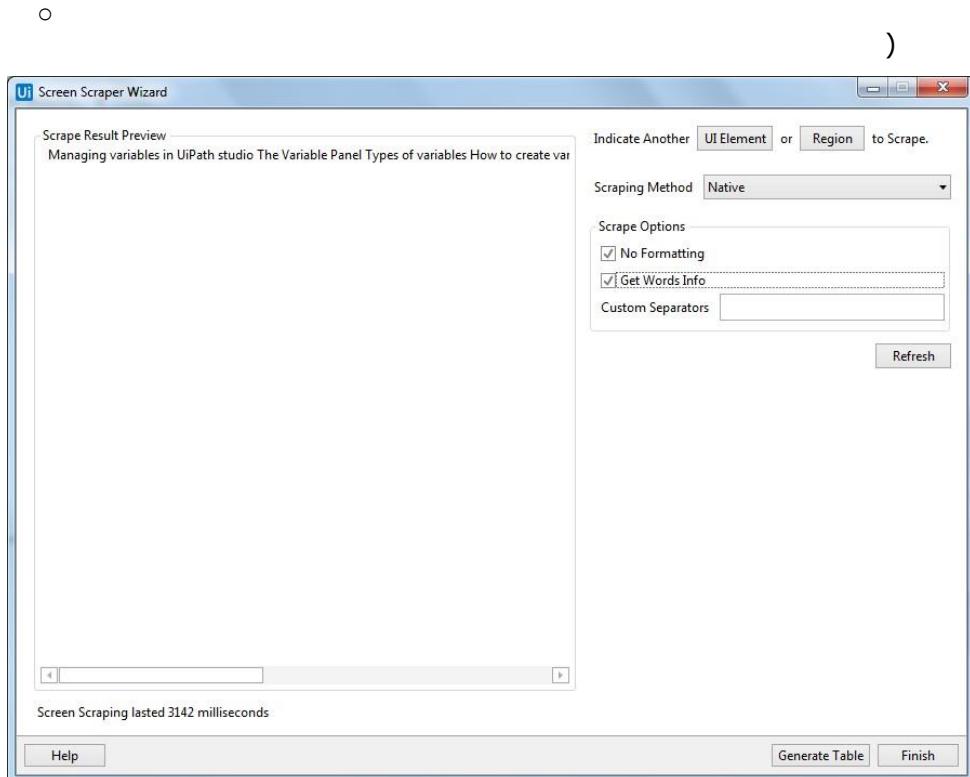
**Refresh**

)



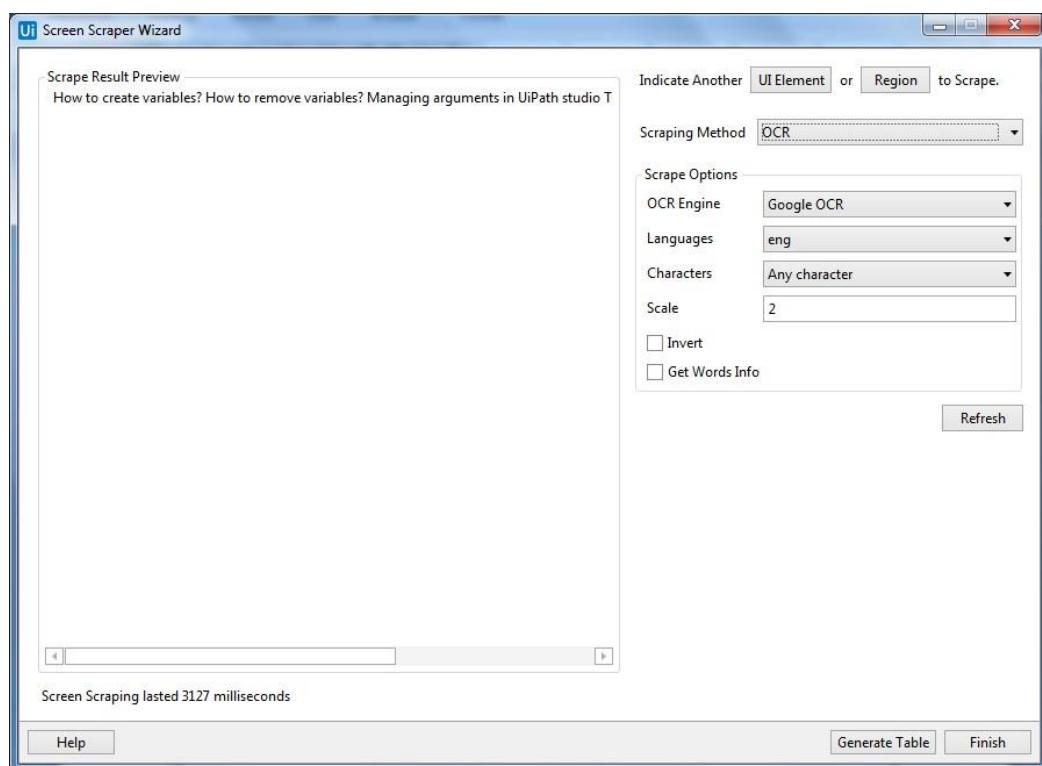
- **Native:**
- **No Formatting:**
- **Get Words Info:**
- **Custom Separators:** \*

- **Full Text:**



- **Google OCR**

- **OCR Engine:** )
  - **Languages:** )
  - **Characters:**  
Any character, Number only, Letters,  
Uppercase, Lowercase, Phone Numbers, Currency, Date  
Custom )
  - **Invert:**  
)
- Scale**  
)  
)
- **Get Words Info** (



## **Steps for using Screen Scraping Wizard with Example**

---

**Step1**

)

)

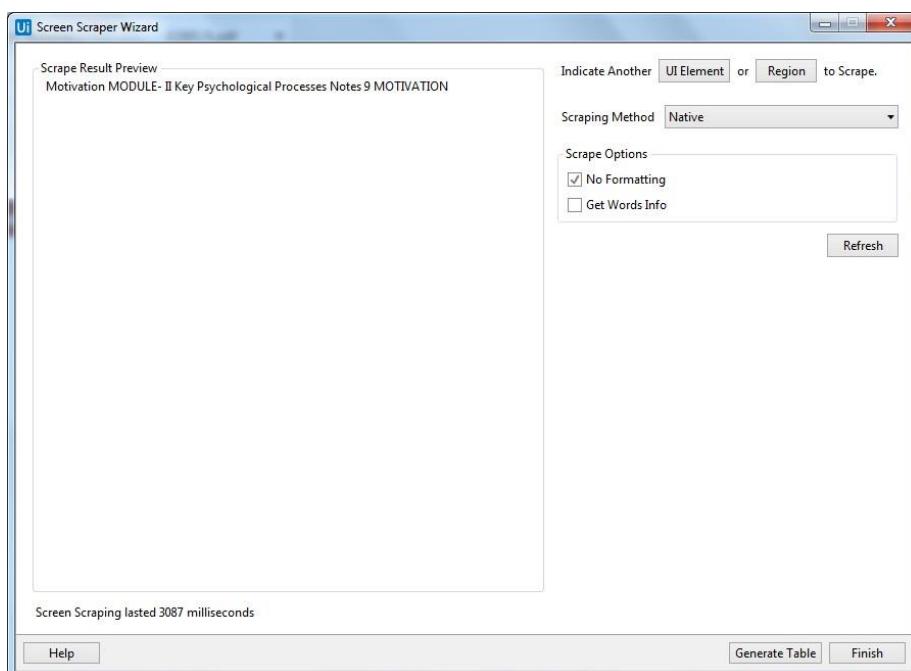
**Step2**

)

**Step3**

)

**Step4**



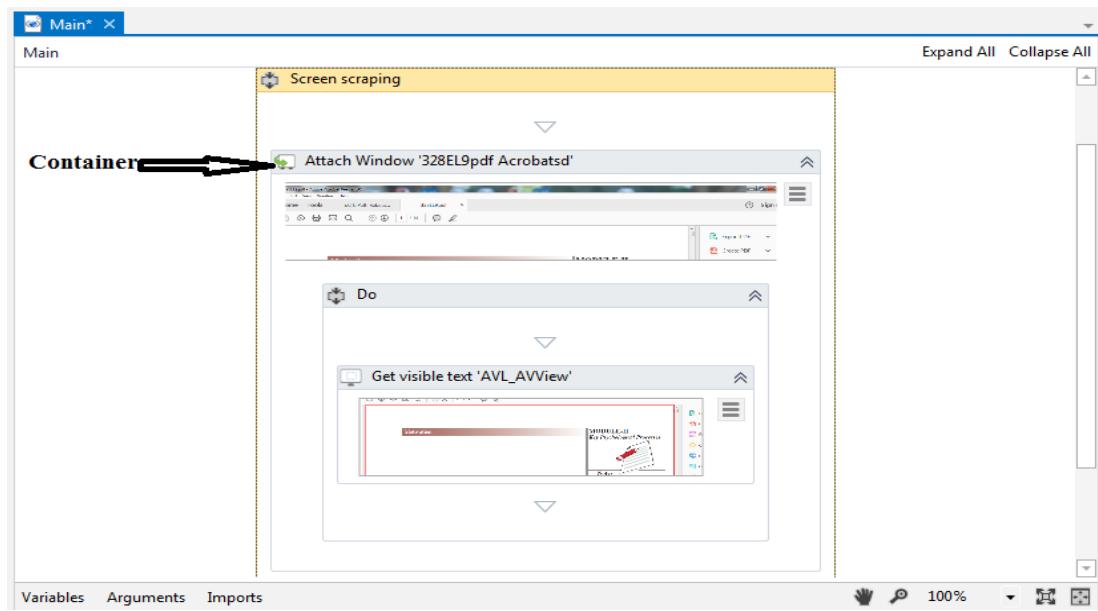
**Step5**

)

)

)

)



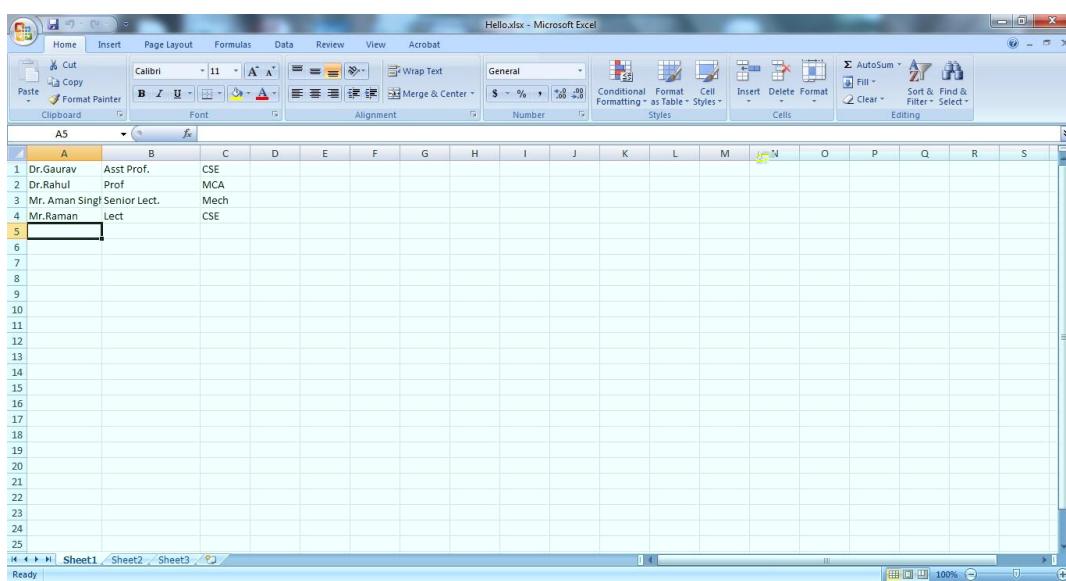
# 13. UiPath – Detailed Examples

## Excel Automation

- )
- )
- )

**Step1:**)

**Step2:**)



A screenshot of Microsoft Excel showing a table titled "Hello.xlsx - Microsoft Excel". The table has four columns: Faculty Name, Designation, and Department. The data is as follows:

	A	B	C
1	Dr.Gaurav	Asst Prof.	CSE
2	Dr.Rahul	Prof	MCA
3	Mr. Aman Singh	Senior Lect.	Mech
4	Mr.Raman	Lect	CSE
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

**Step3:** ! )

**Step4:** ! "Excel Application scope )

**Step5:** ) ) "Excel Application scope )

**Step6:** Application scope ! Read range "Excel )

## **Step7:** Read range

**DT1 )**

**Step8:** ! **Output data table**)

## Output data table

)

DT1

**Step10:** )

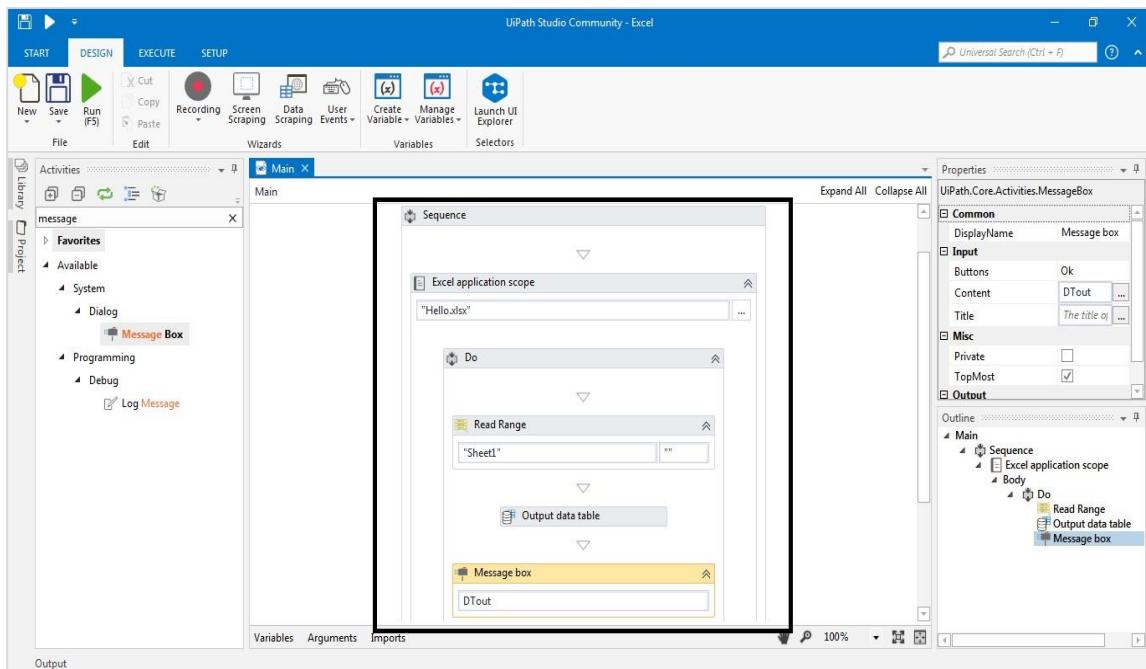
Mess

## **Output data table)**

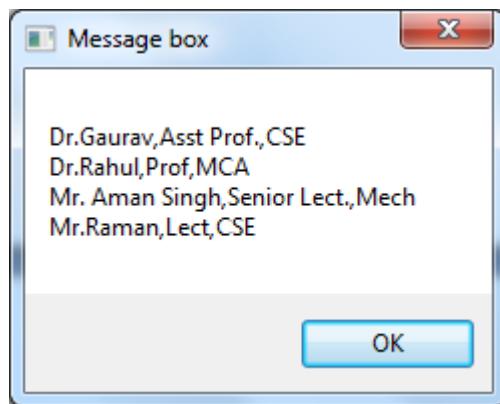
)

## **Step10:**

!



**Step11:** )

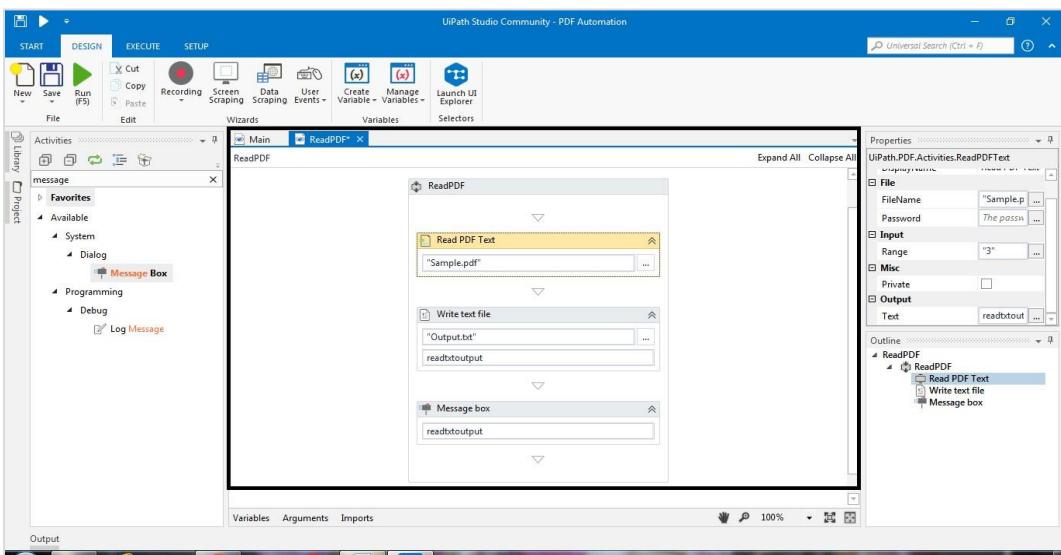


)

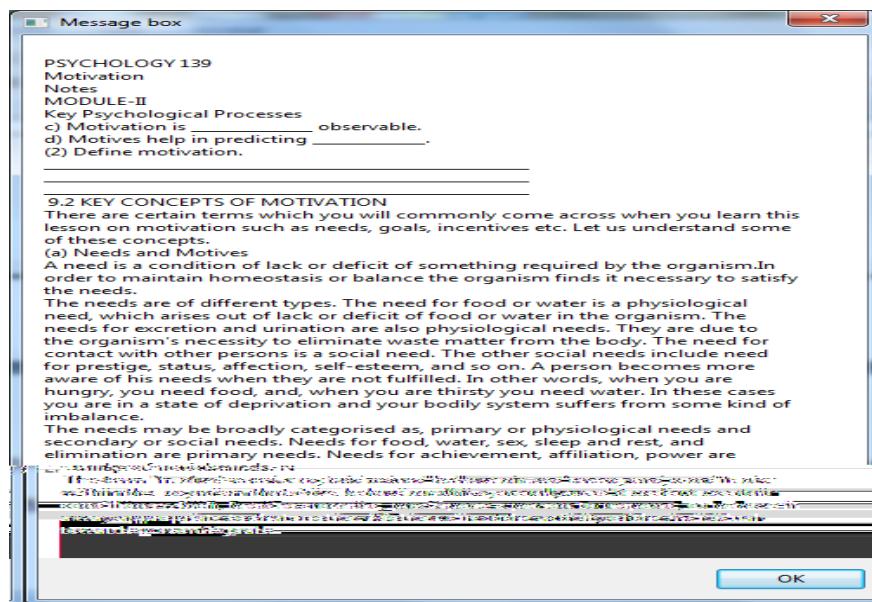
)  
manage packages )  
activity panel)

## PDF Data Extraction & Automation

```
) ) )  
)  
Step1: )  
Step2: ) sample.pdf )  
Step3: ! )  
Step4: ! "Read PDF Text )  
 ) )  
Step5: ) )  
 ) "Read PDF Text )  
Step6: Read PDF Text"  
 )  
 ) readtextoutput)  
 )  
, (. .  
 )  
Step7: !  
Write text file Read PDF Text )  
Step8: )  
"Output.txt". )  
 ) ) readtextoutput.  
Step9: )  
! Message box Write text file)  
readtextoutput)
```



**Step11:**  
output.txt



Read PDF with OCR  
text)  
)  
Read PDF  
Screen Scraping  
()

# Email Automation

**Step1:**

**Step2:** ! )

**Step3:** ! "Get IMAP Mail Messages )

**Step4:** ) ) "Get IMAP Mail Messages . Host.

Messages

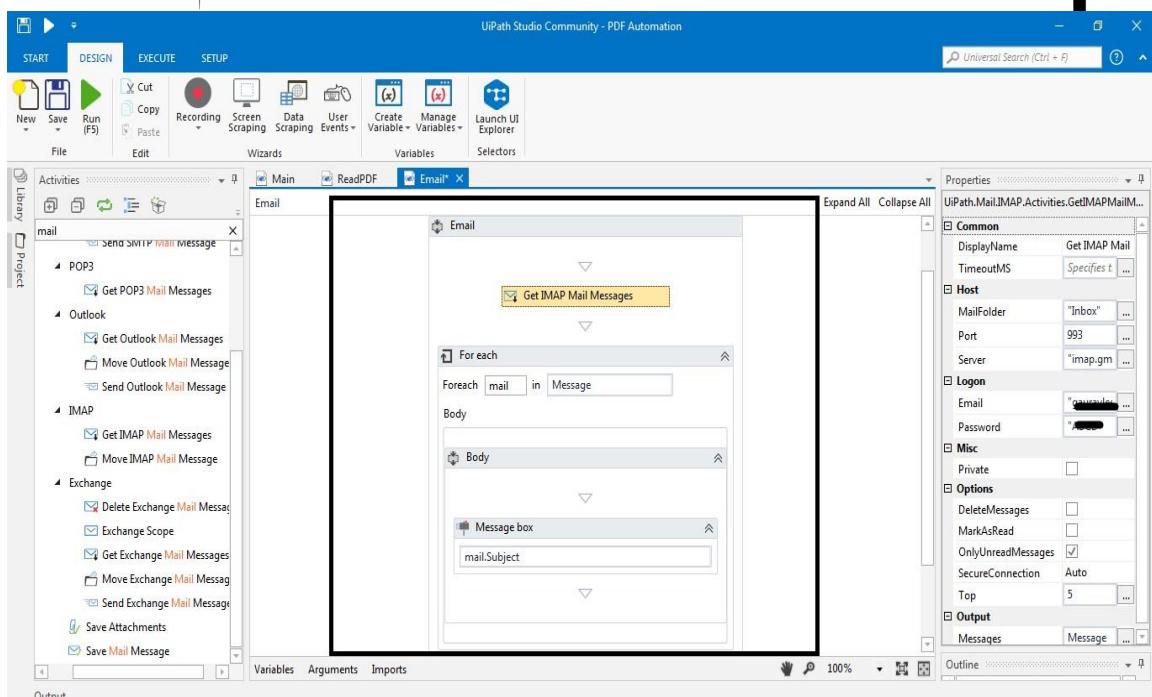
Top property Options)

**Step5:**

! For Each ) /)  
System.Net.Mail.MailMessages  
Browse for Type )

**Step6:**

! Message box For Each activity)  
mail.Subject )



)

)

)  
)

.