**Practical No: 8**

**Triggering events, Screen Scraping, Plug-ins**

**Aim: A) Demonstrate the following events in UiPath:**

**i. Element triggering event**

**ii. Image triggering event**

**iii. System Triggering Event.**

1. **Element Triggering event**
2. Utilize the "Click Trigger" activity to set up a mouse click event.
3. Configure the mouse button to be the left mouse button.  
   A screenshot of a computer

   Description automatically generated
4. Set the window scope for the click trigger by selecting the Notepad window.  
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5. Inside the event, include the "Type Into" activity to specify the text you want to be written upon the mouse click.  
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   Description automatically generated

**OUTPUT:**

A screenshot of a computer

Description automatically generated

1. **Image Triggering event**
2. Drag and drop the "Image Trigger" activity into your sequence.  
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3. Click "Indicate Scope on screen" and choose a part of an image by dragging.
4. Add a follow-up activity, like "Message Box," which will pop up when you click on the selected part of the image.  
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**OUTPUT:**

A screen shot of a message

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1. **System Triggering Events**
2. Include the "System Trigger" activity in your workflow.  
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3. Integrate a follow-up activity, such as "Message Box," to occur after the System Trigger. This activity will trigger when any key or mouse press occurs.  
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OUTPUT:

A screenshot of a message box

Description automatically generated

Learnings:

**i. Element Triggering Event:**

We learned to set up a mouse click event using the "Click Trigger" activity, configuring the mouse button, defining the window scope, and incorporating a follow-up "Type Into" activity to execute upon the mouse click.

**ii. Image Triggering Event:**

We explored the "Image Trigger" activity to create an event triggered by clicking on a selected part of an image, and added a follow-up "Message Box" activity to display a message when the image is clicked.

**iii. System Triggering Events:**

By using the "System Trigger" activity, we learned to set up an event triggered by any key or mouse press and added a follow-up "Message Box" activity to demonstrate the occurrence of the triggering event.

**Aim: b) Automate the following screen scraping methods using UiPath**

**i. Full Text**

**ii. Native**

**iii. OCR**

1. **Full Text**
2. Drag and drop the "Get Full Text" activity into your sequence.
3. Click "Indicate on Screen" within the activity.
4. Select a text pane on the screen.
5. In the properties of the "Get Full Text" activity, add a string variable to the output using [Ctrl + K].
6. Add a "Message Box" activity to your sequence.
7. Use the variable created in step 4 to print the extracted text in the message box.  
   A screenshot of a computer

   Description automatically generated

OUTPUT:

A screenshot of a message box

Description automatically generated

1. **OCR**
2. Drag and drop the "Get OCR Text" activity into your sequence.
3. Click "Indicate on Screen" within the activity.  
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   Description automatically generated
4. Select an image containing text that you want to extract.
5. Create a variable to store the OCR output.
6. Add a "Message Box" activity to your sequence.  
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7. Use the variable created in step 3 to display the OCR-extracted text.

OUTPUT:

A screenshot of a computer program

Description automatically generated

**Learnings:**

**i. Full Text:**

We learned to use the "Get Full Text" activity to extract text from a specific pane on the screen, store it in a variable, and display it using a Message Box.

**ii. OCR:**

By employing the "Get OCR Text" activity, we learned to capture text from an image, save it in a variable, and showcase the extracted text in a Message Box, demonstrating the application of Optical Character Recognition (OCR) in UiPath.

**Aim: 3. Install and automate any process using UiPath with the following plug-ins:**

1. **PDF Plugin**
2. Install UiPath.PDF Package:
   1. Open UiPath Studio.
   2. Navigate to "Manage Packages" > "All Packages."
   3. Search for "uipath.pdf" and select 'UiPath.PDF.Activities.'
   4. Click "Install" to install the package.

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1. Drag and drop the "Read PDF Text" activity into your sequence.
2. Within the activity, click on the field for selecting a PDF file and choose the desired PDF.  
   A screenshot of a computer

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3. In the properties of the "Read PDF Text" activity, set the range of pages and select a string variable to store the extracted text.
4. Integrate a "Message Box" activity into your sequence.
5. Use the string variable to display the extracted text in the message box.  
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OUTPUT:

A screenshot of a computer

Description automatically generated

1. **EXCEL PLUGIN**

**Pre-requisite: Install UiPath.Excel.Activities**

1. Install Excel Plugin(Home > Tools > UiPath Extensions > Install ‘Excel Add-in')
2. Create an Excel file containing two columns: "Name" and "Marks."
3. In UiPath Studio, add an "Excel Application Scope" activity to your sequence.
4. Within the activity, select the Excel file you created in step 2.  
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5. Add a "Read Range" activity inside the Excel Application Scope.
6. Integrate a "Message Box" activity into your sequence.  
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7. Use the output of the "Read Range" activity to display the read data in the message box.

OUTPUT:

A screenshot of a computer

Description automatically generated

**Learnings:**

**i. PDF Plugin:**

We learned to install the UiPath.PDF package, use the "Read PDF Text" activity to extract text from a PDF file, and display the extracted text in a Message Box.

**ii. Excel Plugin:**

We grasped the process of installing the UiPath.Excel.Activities plugin, adding an Excel file containing data, utilizing "Excel Application Scope" and "Read Range" activities to read data, and displaying the read data in a Message Box using the output variable.