## 9. Exception handling

9.1 Objective

Build a workflow using a Try Catch activity to do the following:

* Take Name, Gender, and Age as the user input.
* Subtract current year with Age value to get the Year of Birth.
* Handle an error that occurs due to a reckless user input of an incorrect age containing the 11-digit number.
* Continue the process to display the Name, Gender, and Year of Birth of the user in a message box.

9.2 Process Overview

* START
* Use three Input Dialog activities within the Try Catch activity to ask for the Name, Gender, and Age of the user.
* Use an Assign activity to subtract the age from the current year to get the year of birth of the user
* Use Exception Type: System.Exception in the Catches section of the Try Catch activity to handle reckless input from the user. Store error in a string variable.
* Use a Message Box activity to display the Name, Gender, and Year of Birth of the user along with the Error, if any.
* STOP

9.3 Step by Step Process

|  |  |
| --- | --- |
| Step 1: | Open UiPath Studio. |
| Step 2: | Create a new process and name it as “Try Catch activity” |
| Step 3: | Drag a Sequence activity from the Activities panel and drop it in the Designer panel. |
| Step 4: | Name the Sequence activity as “Sequence – 'A workflow using Try Catch activity to catch certain errors'”. |
| Step 5: | Right-click on the Sequence activity container and select Annotations from the |

context menu.

|  |  |
| --- | --- |
| Step 6: | Enter the annotation shown below:  This block of code demonstrates a workflow using the Try Catch activity to do the following:   1. Take the Name, Gender, and Age as user input. 2. Subtract current year with Age value to get the Year of Birth. 3. Handle an error that occurs due to a reckless user input of incorrect age containing an 11-digit number. 4. Continue the process to display the Name, Gender, and Year of Birth of the user in a message box. |
| Step 7: | Drag and drop a Try Catch activity and name it as “Try Catch - 'User Inputs'”.  Add an annotation “Take input and catch error.” |
| Step 8: | In the Try Section, insert a Sequence activity and name it as “Sequence - ‘User  Inputs’”. Add an annotation “Take inputs from user.” |
| Step 9: | Insert an Input Dialog activity within the Sequence activity, name it as “Input |

Dialog - User Name”, add an annotation: “Name as User Input” and enter the values as shown below:

|  |  |
| --- | --- |
| Title | Label |
| “Name” | “Enter your Name” |

Step 10: Insert a second Input Dialog activity below the previous “Input Dialog - User Name” activity, and name it as “Input Dialog - User Gender”, add an annotation: “User Gender as User Input” and enter the values as shown below:

|  |  |
| --- | --- |
| Title | Label |
| “Gender” | “Enter your Gender” |

Step 11: Insert a third Input Dialog activity below the previous “Input Dialog - User Gender” activity, and name it as “Input Dialog - User Age”, add an annotation:

“User Age as User input” and enter the values as shown below:

|  |  |
| --- | --- |
| Title | Label |
| “Age” | “Enter your Age” |

Step 12: In the Variables panel, define five new variables as shown shown below:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Variable type | Scope | Default |
| userName | String | Sequence - ‘A workflow using Try Catch activity to catch certain errors’ |  |
| userGender | String | Sequence - ‘A workflow using Try Catch activity to catch certain errors’ |  |
| intUserAge | Int32 | Sequence - ‘A workflow using Try Catch activity to catch certain errors’ |  |
| intYearOfBirth | Int32 | Sequence - ‘A workflow using Try Catch activity to catch certain errors’ |  |
| inputError | String | Sequence - ‘A workflow using Try Catch activity to catch certain errors’ |  |

|  |  |
| --- | --- |
| Step 13: | In the Properties panel of “Input Dialog – User Name” activity, enter userName in the Output property. |
| Step 14: | In the Properties panel of “Input Dialog – User Gender” activity, enter userGender in the Output property. |
| Step 15: | In the Properties panel of “Input Dialog – User Age” activity, enter intUserAge in the Output property. |
| Step 16: | Insert an Assign activity below the “Input Dialog – User Age” activity and |

name it as “Assign - Year of Birth.” Add an annotation: “Present year - User's year of birth”, and enter values as shown below:

|  |  |
| --- | --- |
| To | Value |
| intYearOfBirth | Date.Today.Year() - intUserAge |

Step 17: In the Catches section of the Try Catch Activity, select “System.Exception”

from the dropdown.

Step 18: Insert an Assign activity in the Catches section and name it as “Assign – InputError”. Add an annotation “Store error as a string in a variable.” Enter values as shown below:

|  |  |
| --- | --- |
| To | Value |
| inputError | exception.Message |

|  |  |
| --- | --- |
| Step 19: | Insert a Message Box activity below the Try Catch activity and name it as  “Message Box - User Details”. Add an annotation: “Print all the details” |
| Step 20: | In the text area of the Message Box activity, enter the expression: "Name: " +  userName + vbCr + "Gender: "+ userGender + vbCr + "Year of Birth: "  + intYearOfBirth.ToString + vbCr + "Error: " + inputError |
| Step 21: | Save and run the Project |