**Optimization of workflow with proper conventions**

Best Practices for Maintaining the Code:

* Making your workflow readable
* Build Reusable workflows
* Commenting techniques
* Exception Handling

Bring all the files to Project level so that directly give the name of that folder instead of giving the complete path.

Select FirstDemo1Process->right click->select **open Project Folder**->copy the **invoices** folder paste in the Project Folder

Similarly copy the **excel file** and paste in the **Project Folder**

In the Uipath->select **Refresh**->then all the files are present

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**Exception handling mechanism in UiPAth**

When one of the file is corrupted and data is not displaced properly then Automation workflow will break. So, Exception handling mechanism is used, with **Try and Catch block.**

Put a corrupted pdf invoice name: NPO Invoice7 in the invoices folder

Select Activity->search **Try Catch**->select **Try Catch** ->drag and drop **Try Catch** to the + drop activity between **Invoice extraction** and **Delay**

If something fails in **Try block** then the script will not stop and it will go to the **Catch block**

Move the **Invoice extraction** and **Amount extraction** in the **Try Catch**

In the **Catch block** ->select the Type of exception will be receiving

->Exception: **UiPath.Core.SelectorNotFoundException**

Select Activity->search **message box**->select **Message Box** ->drag and drop **Message Box** to the + drop activity of **Catch block**

Select **Message Box** ->Text: "Corrupted File received"

To run the workflow->right click on the particular file which will run->select **Set as Start Node**->select Debug file->select Run File

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**Running Multiple xaml files from Main xaml file**

* Running Multiple Workflows (xaml) files from Main.xaml file
* Running Workflows in Parallel

To run two or three (xaml) files together->to call two or three (xaml) files in a new workflow and then execute everything in a sequence.

Right click on the **Project**->select **Add**->select **Sequence**->Name: **Automation Runner**->select create

Place all the (xaml) files which want to run into the **Automation Runner** sequence

Select Activity->search **Invoke Workflow File**->select **Invoke Workflow File** ->drag and drop **Invoke Workflow File** to the + drop activity of **Automation Runner**

Select **Invoke Workflow File** ->select **Browser for file**->select the (xaml) files which want to execute

Select Activity->search another **Invoke Workflow File**->select **Invoke Workflow File** ->drag and drop **Invoke Workflow File** to the + drop activity of **Automation Runner** after the first **Invoke Workflow File**

Then Select the second **Invoke Workflow File** ->select **Browser for file**->select the (xaml) files which want to execute

To run the workflow->right click on the particular (xaml) file which will run->select **Set as Main**

->select Debug file->select Run File

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**Running Robots (Workflows) in Parallel mode from UIPath**

* Running Workflows in Parallel

Select Activity->search **Parallel**->select **Parallel** ->drag and drop **Parallel** to the + drop activity of **Automation Runner** before **Invoke Workflow File**

Then drag and drop the workflow which want to run in parallel in the **Parallel** activity

To run the workflow->right click on the particular (xaml) file which will run->select **Set as Main**

->select Debug file->select Run File

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**Comment Activity Techniques to UiPath workflows**

* Commenting techniques

Select Activity->search **Comment**->select **Comment** ->drag and drop to anywhere in the container for comment

Select **Comment** ->write the comments in the text property

Select Activity->search **Comment Out**->select **Comment Out** ->drag and drop to anywhere in the container for comment

Select **Comment Out** ->drag and drop the activities which will be ignored in the **Comment Out**. So that particular activity will be disable

To disable an activity->right click on an activity->select **Disable Activity**->automatically that activity will be placed inside comment out

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