**Technical Design Document**

**Pay-U MHF report**

Table of Contents

# **1 Introduction**

Main

# **2 Purpose of this document**

This is a Technical Design Document that explains the technical aspects of the robot designed and developed using UiPath in detail. This will give an overview of the design of the bot and can be used by developers or other stakeholders to understand the prerequisites and requirements to execute the bot successfully.

# **3 Scope**

**The scope of this document includes:**

• Environment Specification  
• System Requirements  
• Prerequisites  
• UiPath Enterprise  
• File Folder Structure  
• Robot Design  
• Issues and Risks

**The scope of this document does not include:**

• Availability of Systems  
• System Changes  
• Changes to Input Files or Data Format  
• Process Changes

*Note – this is a Technical Design Document which only covers the technical aspects. Please refer to the Business Requirements Document for any other information about business processes*

# **4 System Requirements**

The Developer System (specifications below) was used to develop this Technical Design Document. It is important to note that the system the robot is migrated to should also have similar specifications to ensure a proper functioning of the robot.  
The system specifications for Pay-U MHF report process:

|  |  |
| --- | --- |
| **Operating System** |  |
| **Processor** |  |
| **RAM** |  |
| **Hard Disk** |  |
| **Components** |  |

# **5 Prerequisites**

The prerequisites for the robot to successfully run are as follows:

a. The following applications are installed in the system:  
 • UiPath 22.4.4.0  
b. The system has a valid studio and back office robot licence for UiPath  
c. Robot has access to all required applications  
d. Files are located in the system following the File Structure indicated below (Section 7).

# **6 UiPath Enterprise**

UiPath version 22.4.4.0 is the software used for developing the Technical Design Document.

# **7 File/Folder Structure**

**• Temporary Folder:**

Path at which all the temporary files are stored.

**• Input Folder:**

Path at which all the input files are stored.

**• Output Folder:**

Path at which all the output files are stored.

**• Code Repository**

Path at UiPath process workflows are be stored.

**• Config File Path**

Path at config files are be stored.

|  |  |
| --- | --- |
| File/Folder | File/Folder Location |
| Temporary Folder |  |
| Input Folder |  |
| Output Folder |  |
| Code Repository |  |
| Config File Path |  |

# **8 Bot Design**

8.1 Main.xaml

***Location: \Main.xaml***

***Parameters:***

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| Proceed\_next | InOutArgument(x:Boolean) |  |
| Log\_path | InArgument(x:String) |  |
| Out\_config | InOutArgument(scg:Dictionary(x:String, x:Object)) |  |

8.2 test.xaml

***Location: \test.xaml***

8.3 Sequence.xaml

Reading The input from excel sheet

***Location: \Excel Module\Read Excel.xaml***

***Parameters:***

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| out\_DataTable | OutArgument(sd:DataTable) |  |
| in\_AddHeaders | InArgument(x:Boolean) |  |
| in\_WorkbookPath | InArgument(x:String) |  |
| in\_SheetName | InArgument(x:String) |  |
| in\_CellAddress | InArgument(x:String) |  |

8.4 InitAllSettings.xaml

***Location: \Init Module\InitAllSettings.xaml***

***Parameters:***

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| Out\_Config | InOutArgument(scg:Dictionary(x:String, x:Object)) |  |
| in\_ConfigSheets | InArgument(x:String) |  |
| in\_ConfigFile | InArgument(x:String) |  |
| Arg\_Status | InOutArgument(x:Boolean) |  |
| log\_Path | InOutArgument(x:String) |  |

8.5 \_0XDS\_LogHelper.xaml

Input Arguments:-  
MessageType--Type of message  
ActivityName--Stage   
Message--Log details  
WorkflowName--Name of Workflow  
LogFilePath--Path of log file  
LogTarget--Type of log file  
  
1 Checks whether Log File Path exists or not  
2 Sequence to check whether file exists or not in the path provided   
3 Checks existence of log path  
4 Set status message  
5 End LogHelper Process  
6 Checks if Log File Exists  
7 Write message to log file  
8 Sequence for writing log message  
9 Write log message to the path provided   
10 Set status message   
11 Creates Log File  
12 Sequence to create log file in the path  
13 Create log file  
14 Set status message  
15 Checks if process should continue

***Location: \Log Module\LogHelper.xaml***

***Parameters:***

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| MessageType | InArgument(x:String) |  |
| ActivityName | InArgument(x:String) |  |
| Message | InArgument(x:String) |  |
| WorkflowName | InArgument(x:String) |  |
| LogFilePath | InArgument(x:String) |  |
| ExceptionMessage | OutArgument(x:String) |  |
| Status | OutArgument(x:String) |  |

8.6 Log\_File\_Creation.xaml

***Location: \Log Module\Log\_File\_Creation.xaml***

***Parameters:***

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| Arg\_Status | InOutArgument(x:Boolean) |  |
| Log\_Path | InArgument(x:String) |  |

8.7 Data\_download.xaml

***Location: \Modules\Data\_download.xaml***

***Parameters:***

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| Arg\_status | InOutArgument(x:Boolean) |  |
| Log\_path | InArgument(x:String) |  |
| In\_data | InOutArgument(scg:Dictionary(x:String, x:Object)) |  |

8.8 test1.xaml

***Location: \Modules\Disbrusment\_report.xaml***

***Parameters:***

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| Arg\_status | InOutArgument(x:Boolean) |  |
| Log\_path | InArgument(x:String) |  |
| In\_disr | InOutArgument(scg:Dictionary(x:String, x:Object)) |  |

8.9 Excel\_Process.xaml

***Location: \Modules\Excel\_Process.xaml***

***Parameters:***

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| Arg\_status | InOutArgument(x:Boolean) |  |
| Log\_path | InArgument(x:String) |  |
| In\_excel | InOutArgument(scg:Dictionary(x:String, x:Object)) |  |

8.10 Final\_Mail.xaml

***Location: \Modules\Final\_Mail.xaml***

***Parameters:***

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| Out\_mail | InOutArgument(scg:Dictionary(x:String, x:Object)) |  |
| Arg\_status | InOutArgument(x:Boolean) |  |
| Log\_path | InOutArgument(x:String) |  |

8.11 test1.xaml

***Location: \Modules\Final\_report.xaml***

***Parameters:***

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| Arg\_status | InOutArgument(x:Boolean) |  |
| Log\_path | InArgument(x:String) |  |
| In\_final | InOutArgument(scg:Dictionary(x:String, x:Object)) |  |

8.12 Login.xaml

***Location: \Modules\Login.xaml***

***Parameters:***

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| Arg\_status | InOutArgument(x:Boolean) |  |
| Log\_path | InArgument(x:String) |  |
| In\_login | InOutArgument(scg:Dictionary(x:String, x:Object)) |  |

# **9 Workflows**

|  |  |  |
| --- | --- | --- |
| Name | Invoked Workflow | Invoked In |
| \Main.xaml | •Log Module\Log\_File\_Creation.xaml •Init Module\InitAllSettings.xaml •Modules\Login.xaml •Modules\Data\_download.xaml •Modules\Excel\_Process.xaml •Modules\Final\_report.xaml •Modules\Disbrusment\_report.xaml •Modules\Final\_Mail.xaml |  |
| \test.xaml |  |  |
| \Excel Module\Read Excel.xaml |  | •Init Module\InitAllSettings.xaml |
| \Init Module\InitAllSettings.xaml | •Excel Module\Read Excel.xaml | •Main.xaml |
| \Log Module\LogHelper.xaml |  |  |
| \Log Module\Log\_File\_Creation.xaml |  | •Main.xaml |
| \Modules\Data\_download.xaml |  | •Main.xaml •Modules\Login.xaml |
| \Modules\Disbrusment\_report.xaml |  | •Main.xaml |
| \Modules\Excel\_Process.xaml |  | •Main.xaml |
| \Modules\Final\_Mail.xaml |  | •Main.xaml |
| \Modules\Final\_report.xaml |  | •Main.xaml |
| \Modules\Login.xaml | •Modules\Data\_download.xaml | •Main.xaml |

# **10 Dependencies**

• BalaReva.ZipUnzip.Activities: [2020.4.3]  
• UiPath.Database.Activities: [1.7.1]  
• UiPath.Excel.Activities: [2.16.1]  
• UiPath.Mail.Activities: [1.18.1]  
• UiPath.System.Activities: [22.4.4]  
• UiPath.UIAutomation.Activities: [22.4.7]  
• UiPathTeam.Documents.TDDGenerator: [1.4.7221.18964]  
• UiPathTeam.ExcelUtility.Activities: [1.0.0]  
• UiPathTeam.FileConverter.Activities: [0.0.6814.35837]

# **11 Issues and Risks**

Below are the issues and risks identified during development and testing