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Solution Design

Document

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# Purpose



* **The procedure for a password reset in an enterprise will depend on the specific policies and protocols that the enterprise has established for this purpose. However, in general, the following steps may be involved:**
* **User requests password reset: The user who needs a password reset will typically initiate the process by contacting the enterprise's IT support team or help desk. They may do this through a phone call, email, or a self-service portal.**
* **Verification of identity: Before resetting the password, the IT support team will typically verify the user's identity to ensure that they are authorized to access the account. This may involve asking the user to provide personal information or answering security questions.**
* **Generate a temporary password: Once the user's identity has been verified, the IT support team will generate a temporary password for the user. This temporary password is usually a complex string of characters that the user will need to change upon their next login.**
* **Communicate temporary password: The IT support team will communicate the temporary password to the user through a secure channel, such as an encrypted email or a secure messaging platform. They may also direct the user to a self-service portal where they can retrieve the temporary password.**
* **User resets password: The user will then need to log in using the temporary password and change it to a new password of their choosing. This new password should meet the enterprise's password policy requirements, such as minimum length and complexity.**
* **Notify the user: Once the user has successfully reset their password, the IT support team will typically notify them that the process is complete.**
* **Record the password reset: Finally, the IT support team may record the password reset in a central log or database for auditing and tracking purposes.**

# Automated process details

Details filled in need to reflect the actual information for the Master Project released for production. The following table will be populated:

|  |  |
| --- | --- |
| Item | Description |
| Master Project Name | Password Reset Application |
| Robot Type | Unattended |
| Orchestrator used? | Yes |
| Scalable | Yes |
| UiPath version used | 2023.4 |

## Architectural structure of the Master Project

Runtime guide

## Master Project Runtime Details

Outlines the details of the automated process by filling in the table below.

|  |  |
| --- | --- |
| ITEM NAME | DESCRIPTION |
| Production environment details | Running on Window Virtual Machine |
| Prerequisites to run | Input Email with Excel File Attached |
| Input Data | 1 valid Excel files  Password Reset Application |
| Expected output | Out Email with the Temp passscode |
| How to start the automated process | Schedule from Orchestrator |
| Reporting | Orchestrator Logs |
| (queues reporting, Kibana or another platform) | NA |
| How is Orchestrator used? | The process will be schedules from orchestrator server (cloud.uipath.com) |
| Password policies |  |
| (mention any specific compliance requests) | Orchestrator logs. |
| Stored credentials | Orchestrator used for scheduling and asset passwords. |
| List of queues names | PasswordResest |
| (Naming convention: ProcessName\_QueueName) | NA |
| Schedule Details | Time and Queue Triggers |
| Multiple Resolutions Supported?  (in case of image automation / Citrix and VDI) | NA |
| Recommended Resolution | NA |

## Password Reset Application

|  |  |
| --- | --- |
| ITEM NAME | DESCRIPTION |
| Environment used for development  (name, location, configuration details etc) | Windows VM |
| Environment prerequisites  (OS details, libraries, required apps) | Windows 10, Assistant, license, Microsoft Excel, Microsoft Edge |
| Repository for project  (where is the developed project stored) | www.github.com |
| Configuration method  (assets, excel file, Json file) | Config and Assets |
| List of reused components | NA |
|
| List of new reusable components | NA |

# Other Details

### Future Improvements

Fill in any improvements that need to be considered for the future:

***Example:***

*• Optimize the processing algorithm*

*• Implement process error recovery (retry)*

*• Enable support for multiple template files*

### Other Remarks

Please mention here any other points that you consider relevant for the automation process.

***Example:*** *The workflow should run every night at 7AM. Be careful not to schedule it before the report is generated by Zendesk.*

The Zendesk generated data is always 1 day old.

# Glossary

The main terms used in the Solution Architecture Document are defined below:

**Master project** - the overall output of the development, containing one or multiple projects that together cover the scope of the robotic process automation. There is a 1 to 1 connection between the Master Project and the Process to be automated (As presented in the PDD).

**Project** - an UiPath Studio project containing one or multiple workflow files. A project can be converted to a package and run independently, covering a particular scope within the master project. Or multiple projects can be converted into one package depending on the aims and restrictions of the automation. The project is used when defining the development and support phase of the automation.

**Package** - the output of compiling one or multiple projects. A package can be deployed on the robot machine and be executed by the robot service. Only one package can be executed at a given time by a robot. The package is used when defining the running phase of the automation.

Workflow - a component of the package, the workflow encapsulates a part of the project logic. The workflow can be of type: sequence, flowchart or state machine. A workflow is saved as an .xaml file inside the project folder. A workflow file can be invoked from another workflow and by default there is an initial workflow file that will run when executing the package.

**Activity** - an action that the robot executes.

**Sequence** - a workflow where activities are executed one after another, in a sequential order

**Flowchart** - a workflow where activities are connected by arrows and the logic of the workflow can be easily followed in a visual manner. The flowchart can also be exported as an image from UiPath studio.

**State machine** - a more advanced way of organizing a workflow, similar to a flowchart.

**BOR** - Back office robot

**FOR** – Front office robot

**Orchestrator** – Enterprise architecture server platform supporting: release management, centralized logging, reporting, auditing and monitoring tools, remote control, centralized scheduling, queue/robot workload management, assets management.