



# Solution Design Document



*Extract Random weather Process*

## Revision History

Rev. #	Date	Section/Page#	Revision Summary	Author
1	08/09/2025	All	Created first version	Amr Ayman
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3				
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## I. PURPOSE

Outlines the major components of the Master Project (the overall output of the development, containing one or multiple projects that together cover the scope of the robotic process automation) taking into account all the business restrictions (scheduling, peaks, future increases in volume etc.).

The focus of the Solution Architect will be on:

- Robustness;
- Scalability;
- Efficiency;
- Replicability;
- Reusability of component

The information herein is targeted primarily at the developers that will initially implement the solution and subsequently at the support developers in case of change requests.

**The automation solution will utilize the RE framework with Single Package Model**

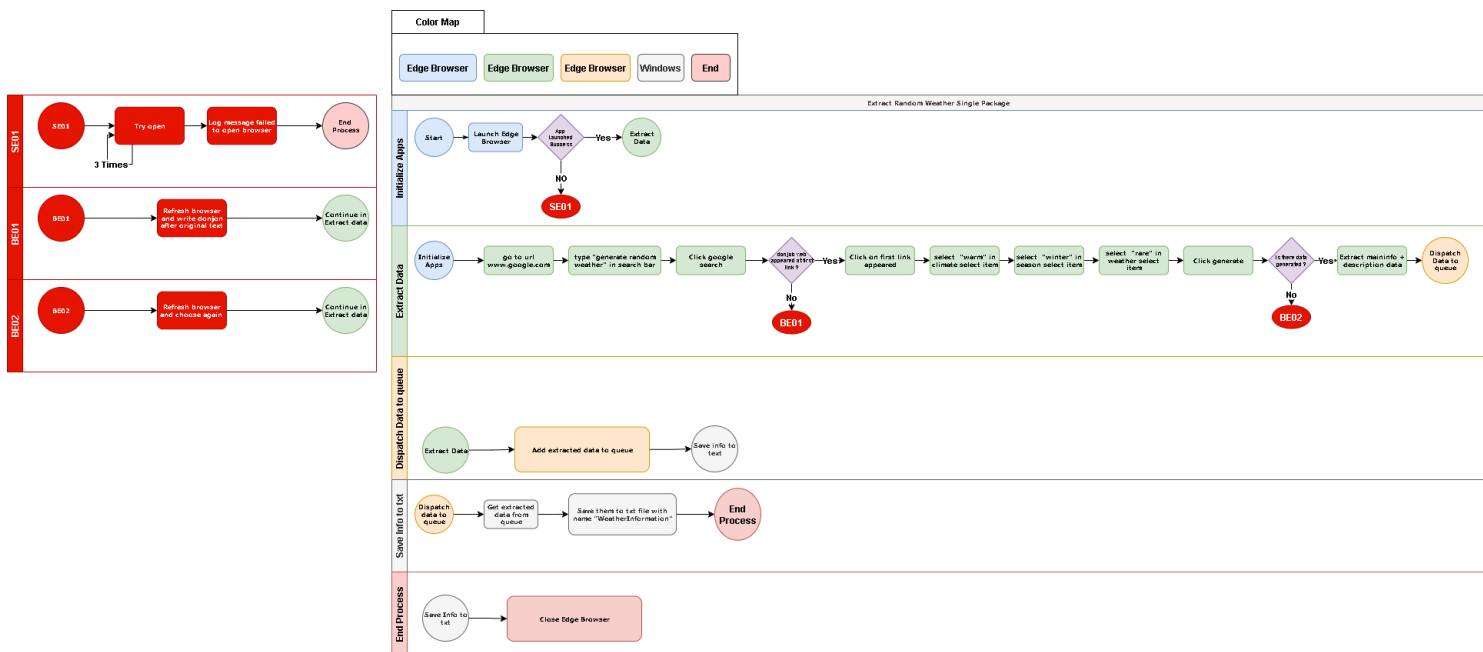
## II. AUTOMATED PROCESS DETAILS

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	Extract Random Weather
Robot Type	Unattended
Orchestrator used?	Yes
Scalable	Yes
UiPath version used	2025.10

## III. RUNTIME GUIDE

### 1. Architectural structure of the Master Project



### 1. Master Project Runtime Details

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

ITEM NAME	DESCRIPTION
	<i>Fill in each bolded section - empty fields are not allowed. If the section does not apply to your automation then mark as n/a.</i>
Production environment details	Edge Browser Desktop App
Prerequisites to run	Edge
Input Data	Climate, Season, Weather
Expected output	Txt File with Weather Information
How to start the automated process	Triggered Automatically everyday at 8:00 am
Reporting (queues reporting, Kibana or another platform)	<i>Txt file</i>
How is Orchestrator used?	<i>Orchestrator used for scheduling</i>
Password policies (mention any specific compliance requests)	<i>n/a</i>
Stored credentials	<i>mainInfo data, description data</i>

(Never use hardcoded credentials in the workflow!)	
Schedule Details	daily
Multiple Resolutions Supported? (in case of image automation / Citrix and VDI)	n/a
Recommended Resolution	n/a

## 2. Project(s) workflows

TO BE ADDED AFTER DEVELOPMENT

Workflow Name	Description
Example: Main	<b>Example:</b> invokes all the other workflows

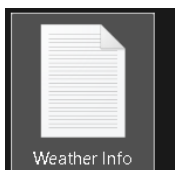
## 3. Packages

Include the list of packages and high-level description for each of them, to explain their purpose

Package Name	Description
<i>UiPath.System.Activities</i>	
<i>UiPath.Testing.Activities</i>	
<i>UiPath.UIAutomation.Activities</i>	

## 4. REPORTING

Txt Weather Info



## 5. Testing

Testing is an essential part of any development process. Its main purpose is to ensure the automated process is functioning in the way it is supposed to. By beginning the testing process during development, any issues, bugs, and errors can be identified and potentially corrected at the earliest possible opportunity.

Each level of testing is responsible for different parts of the automated solution, reassuring high quality of each of the elements delivered. Each of the stages must be completed before the solution is released to the production environment.

The stages of testing are:

**Unit Testing** - Focuses on the individual components and workflows created specifically for the process in scope, assessing whether they function as according to the original design.

**Responsibility:** Development Team

**System Integration Testing** – Ensuring all required functionalities, both business and technical, are implemented, as well as ensure unit testing has been completed successfully, development Best Practices have been applied and code review has been completed by a Solution Architect. There will usually be a round of fixes to be implemented before the automation can proceed further.

**Responsibility:** Dedicated tester / Solution Architect

**User Acceptance Testing** – Process team take responsibility of this phase of testing to ensure they are happy with the results of the automated business process. Sign-off of this phase is business led and mandatory in order to proceed further. Generally, there will be iterative fixes to be implemented that have been discovered during the user testing of the automation.

**Responsibility:** Dedicated tester & Business Unit

**Pre-Production Testing** – Validates the readiness of the product prior to Production deployment.

**Responsibility:** Dedicated tester, Development Team & Solution Architect

**Dry-Run –Monitor** the initial cases run by the process to account for any environmental differences between Pre-Production and Production.

**Responsibility:** RPA Business Analyst & Business Unit

## 6. Security

Security is a vital aspect of digital processes as it provides an extra layer of protection from the public. There are different ways in which security is implemented when automating an existing process, some of which are discussed in this section.

Sensitive data such as passwords and client/customer information (like information stored in databases) must never be unnecessarily stored outside of its origin application when handled by the RPA solution.

Similarly, user and application credentials used by the RPA solution must also never be unnecessarily stored or shared with any unauthorized persons. In addition to that, if the robot is dealing with password reset policies that are internal to the client, those policies must be followed to ensure security is maintained.

API keys are often used within RPA solutions to allow access to certain applications, and these are ideally stored in Orchestrator credential assets and only accessed when needed. As with credentials, they should never be shared or stored elsewhere.

