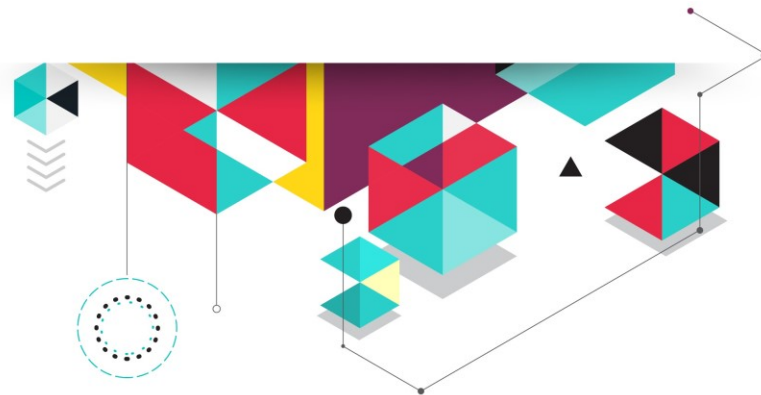Ui Path
Robotic Process Automation

LESSON 13 – PROJECT ORGANISATION – RECAP

This chapter taught you that a project needs to be reliable, efficient, maintainable and extensible. You learnt how to organize a process from start to finish, as well as how to use the **Invoke Workflow** activity.

Takeaways

When developing automation projects, it's best to follow these best practices:

 -**Reliability**: Solid and robust workflows that can handle errors and recover gracefully

 -**Efficiency**: Maintaining smooth execution while cutting down development time through a variety of methods

 -**Maintainability**: In an environment where collaboration and handovers are the way things work, it's important that your project is easy to update

 -**Extensibility**: The project needs to be as prepared as possible for the addition of new components

You can select any sequence or flowchart, right click and choose **Extract as Workflow**, thus replacing the selection with an **Invoke Workflow** activity, essentially turning it into programming function, with the parameters being arguments for the workflow.

Best practices

Make sure you take some time to pick the appropriate layout for each workflow:
- Main: flowchart or state machine
- Business logic: flowchart
- UI interactions: sequence
- Avoid nested IFs by using flowcharts

It's good to break your process into smaller workflows:
- Develop and test pieces independently
- Reuse workflows
- Collaborate more efficiently by working on separate files

Always handle exceptions:
- Place exception prone workflows into Try Catch blocks
- Same goes for externally invoked workflows
- Setup recover sequences

Make sure your workflows are readable:
- Choose descriptive names for all components
- Use explanatory notes and comments
- Log real time execution progress
- Place environment settings in a config file

Always keep things clean by closing the applications when they are no longer needed.

Useful links

Reusing automations
How to Pass Data From One
Workflow to Another