Week 2: Development Phase I
Unit 3: Designer – Simple Workflow Creation

Development Phases

Workflow Design Phase:
development of the automation scripts.

Initial Workflow Design

Workflow Designer: Initial Design

Functional description

- Sequence of screens | Activities | Data context

Code generation

- Scenario declaration | Steps implementation | Code for activities | Comments on activities

Script development

- Generated code adaptation | New requirement implementation

Iteration

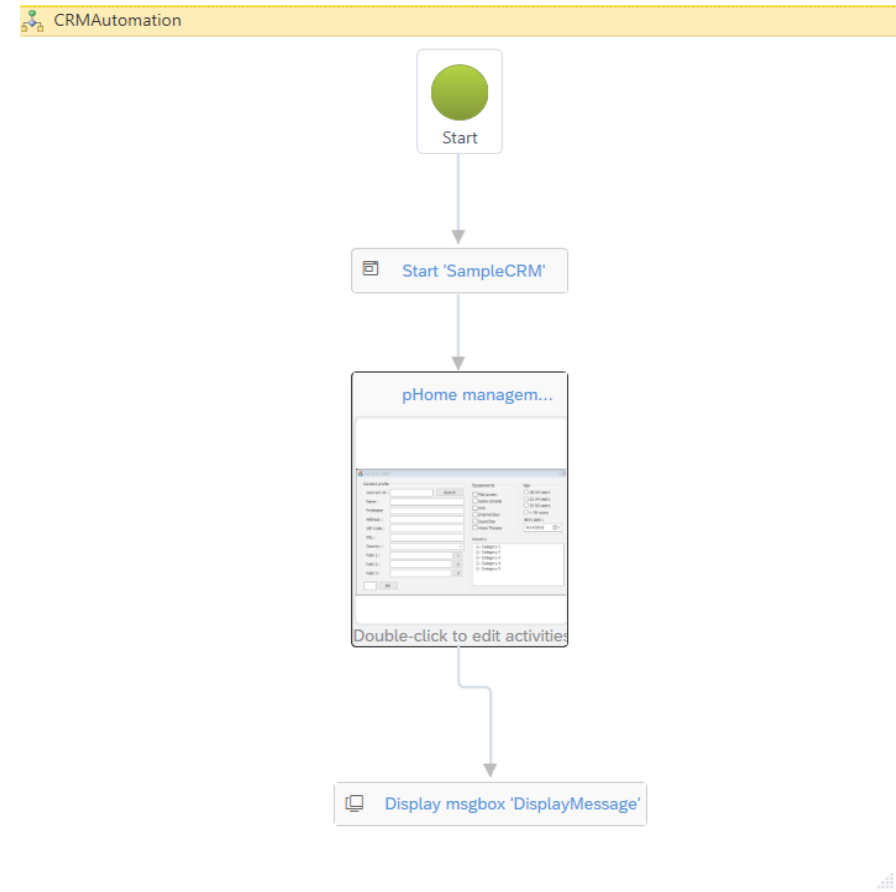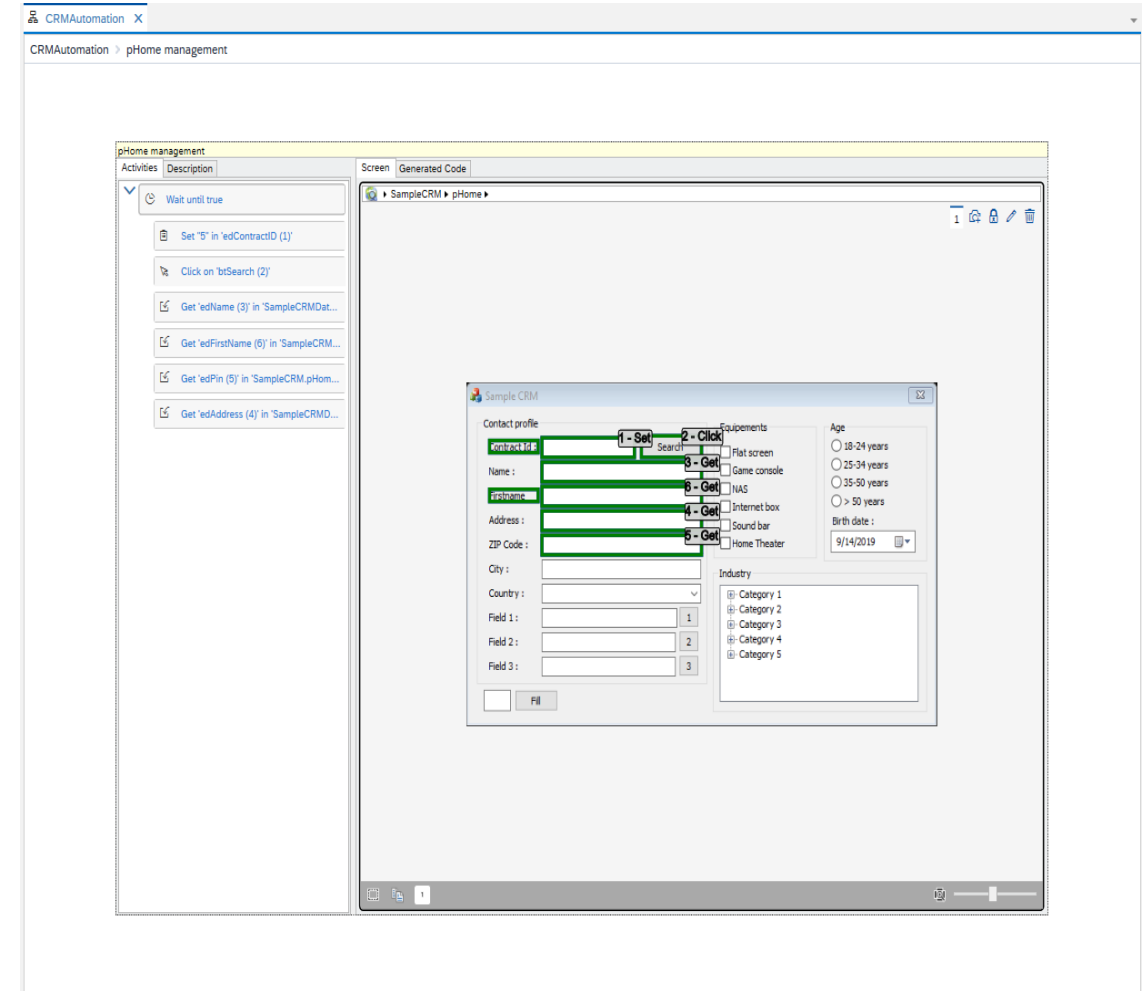- Solution content | Declaration files | Workflows files | UI resources | Javascript files

Workflow Designer: Initial Design

Workflow:

- **Functional:** an automation sequence
- **Implementation:** a **Scenario**

A **Workflow** content:

- **Flowcharts** used to describe the sequence of pages in the automation sequence
- **PageActivities** used to describe the sequence of automation actions to be performed on a Page

Workflow Designer: Initial Design

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Workflow Designer: Initial Design

Main step

- Create workflow
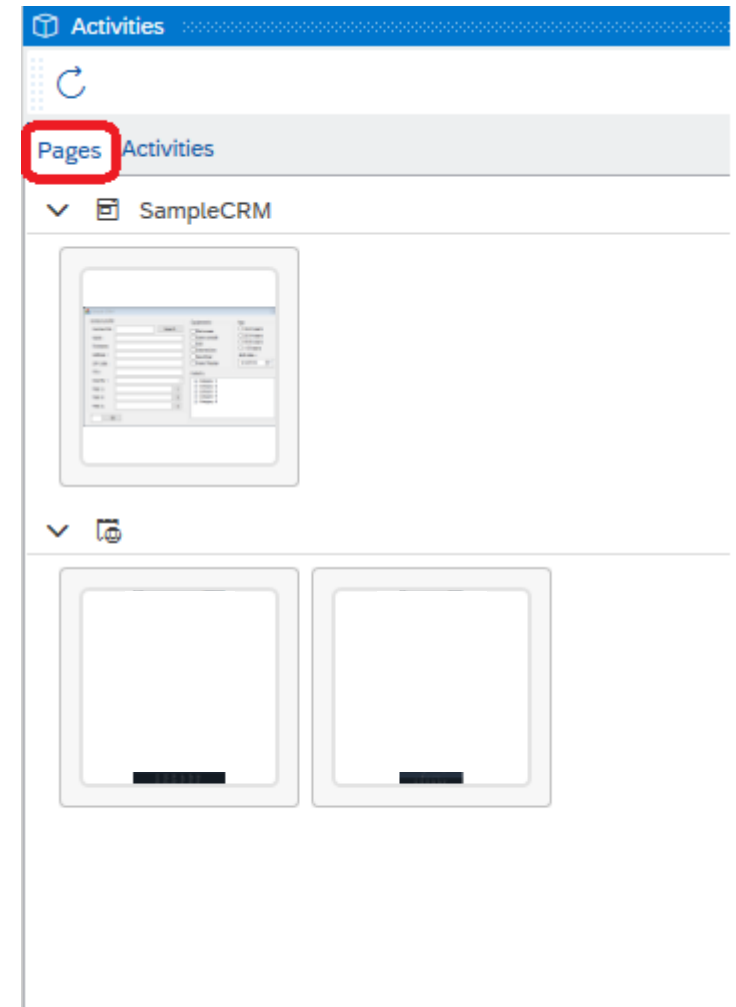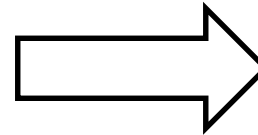
- Design flowchart

- Set activities

- Build the workflow

Activities

Page Activities

Grouped by application
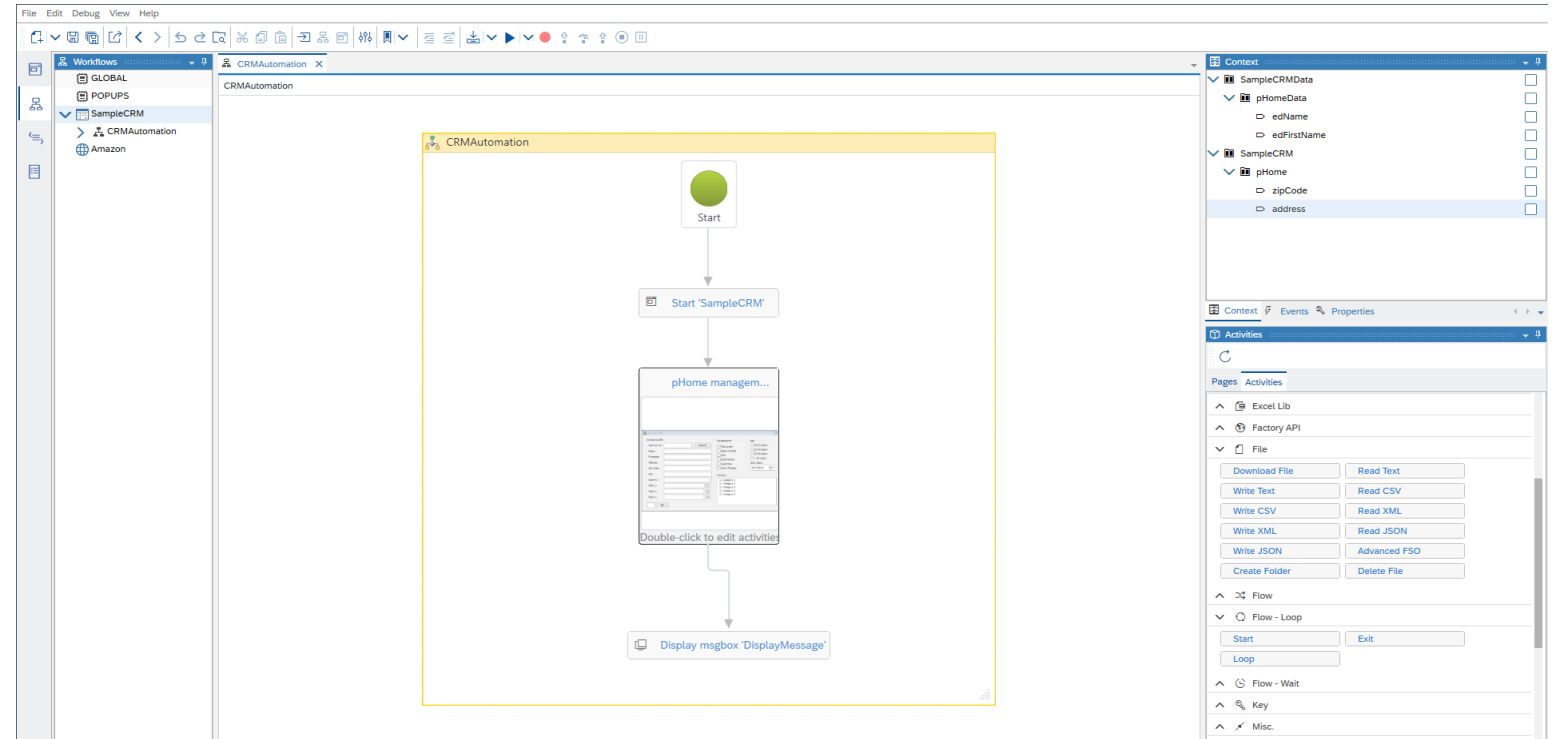
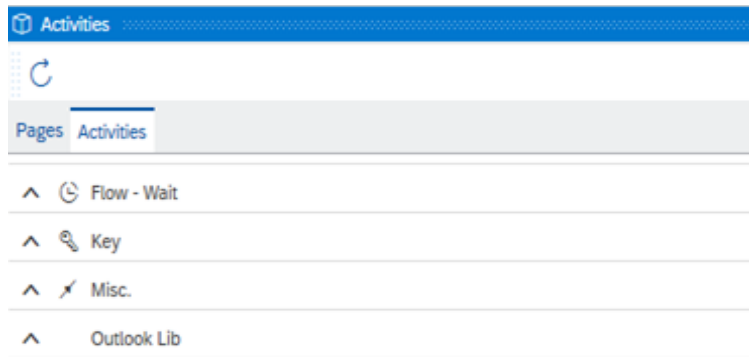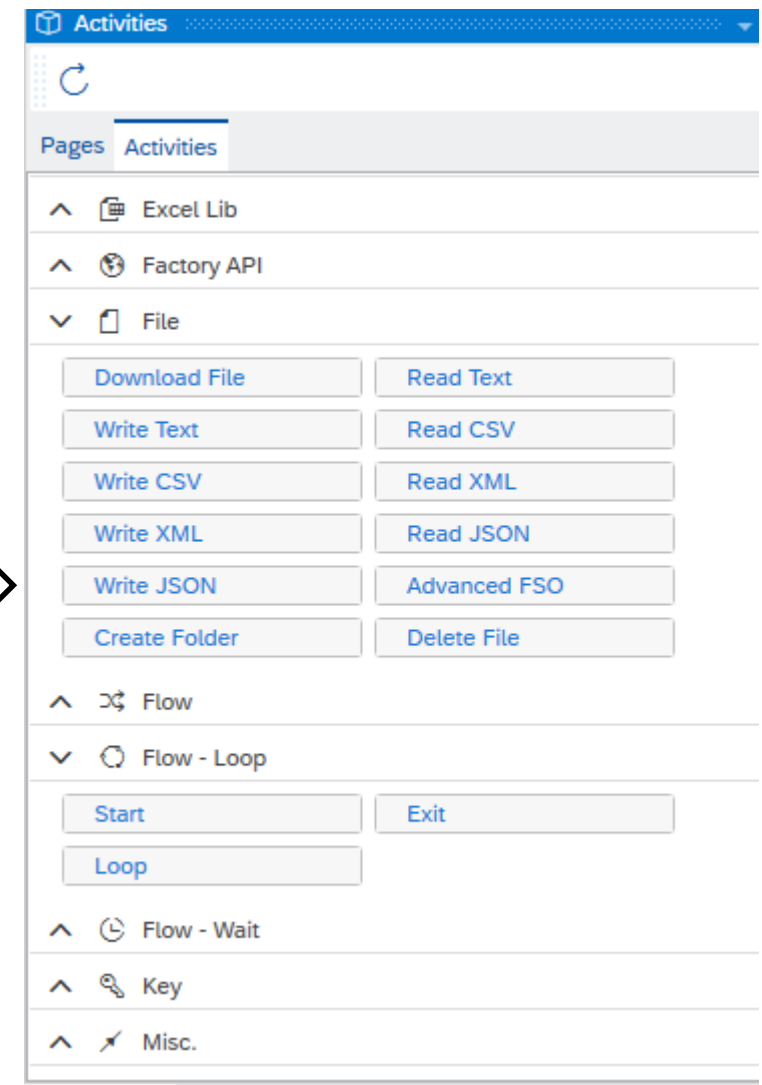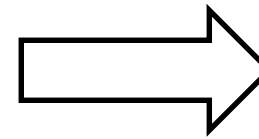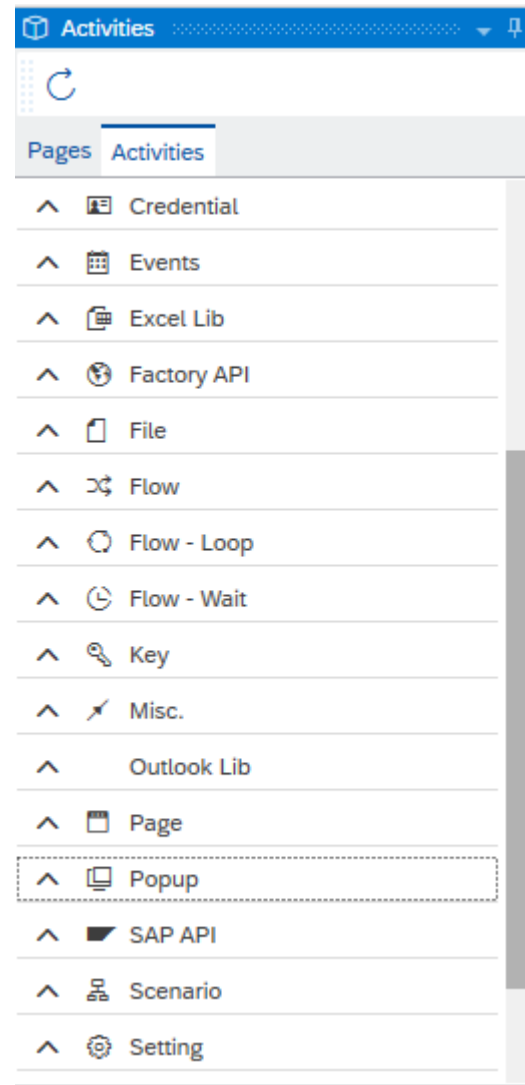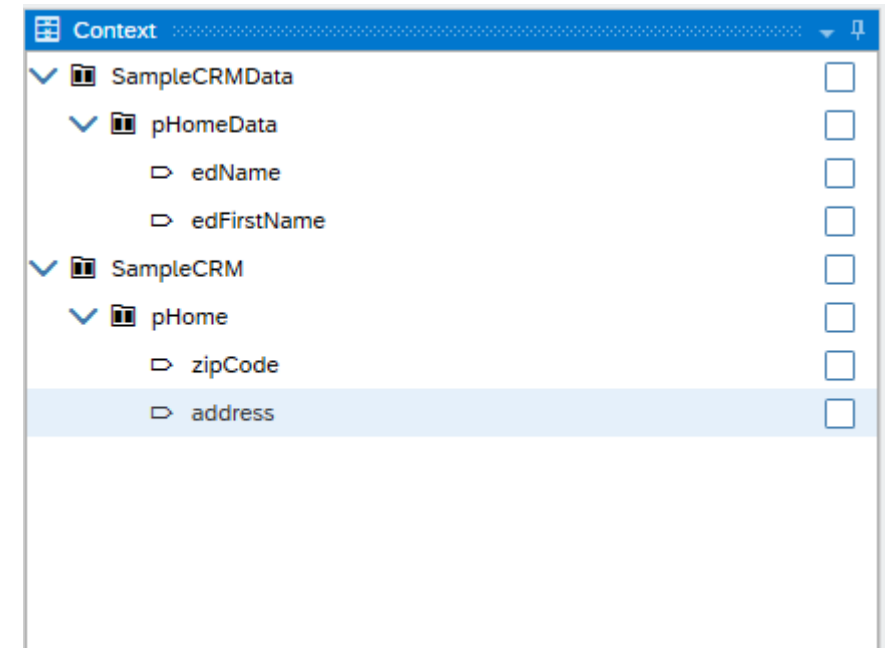## Designer – Simple Workflow Creation
Activities

Activities

- Grouped by category
- Custom parameter

Data Context

Context

- **Definition**: made of **Folders** and **Items**, it describes the way data will be stored in memory during execution
  - A folder can contain items of other folders
  - Each folder of Item can be considered as an **array**

- **Management**: the context structure can be auto-generated:
  - Folders and Items are generated when using Get/Set actions
 - Auto-generation can be disabled in Workflow settings

Code Generation

Javascript code

The Javascript code is generated from a workflow

Changes/Iterations

- Change the way code is grouped in Steps
- Change the step name
- Create a sub flowcharts: Only for visual organisation of the workflow. The code is the same as without sub flowcharts
- Set blocks as Scenario starter
  - By the user with menu item
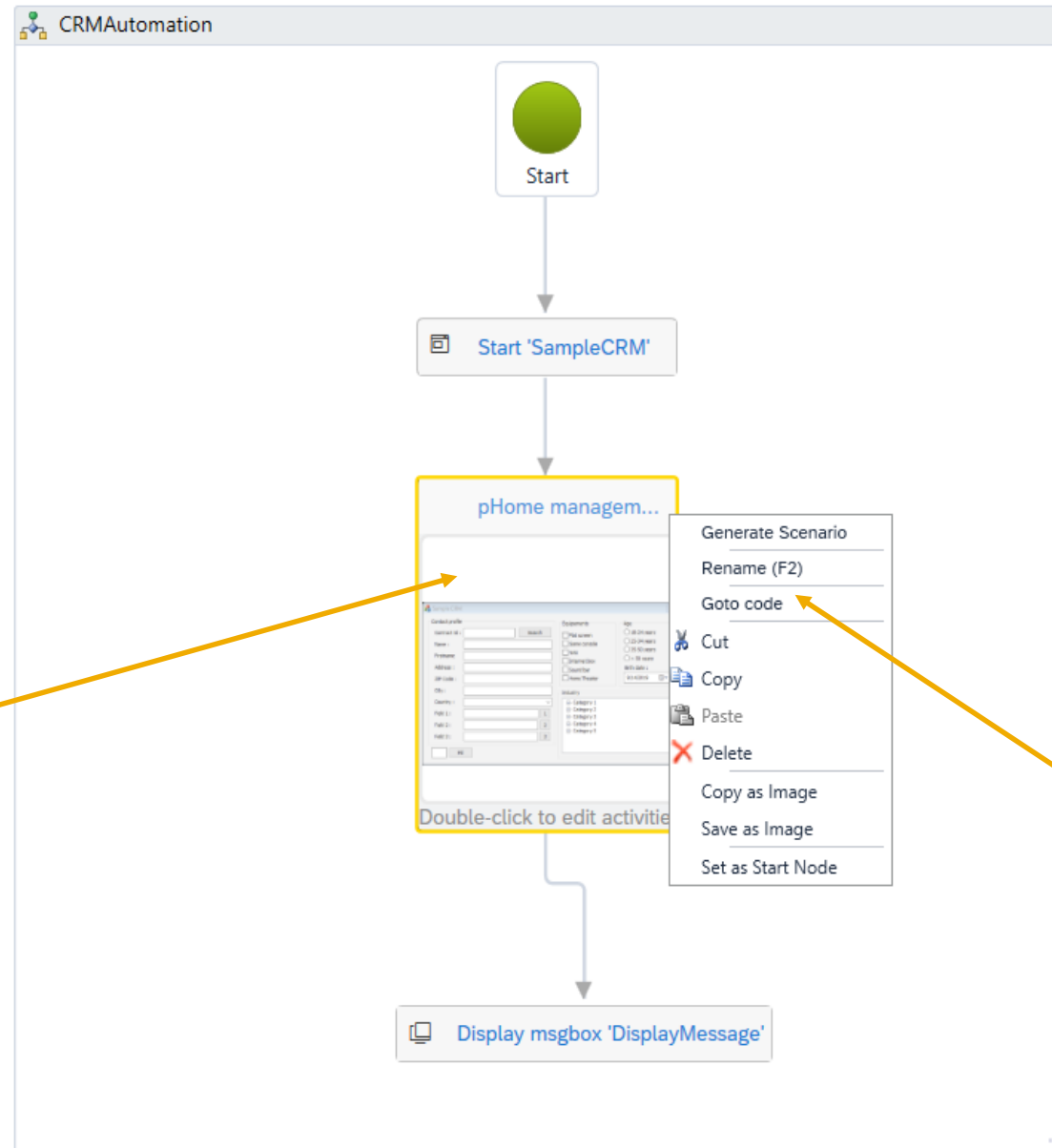 - By a wait event of the monitored application: when a first bloc is not a step or contains a wait event
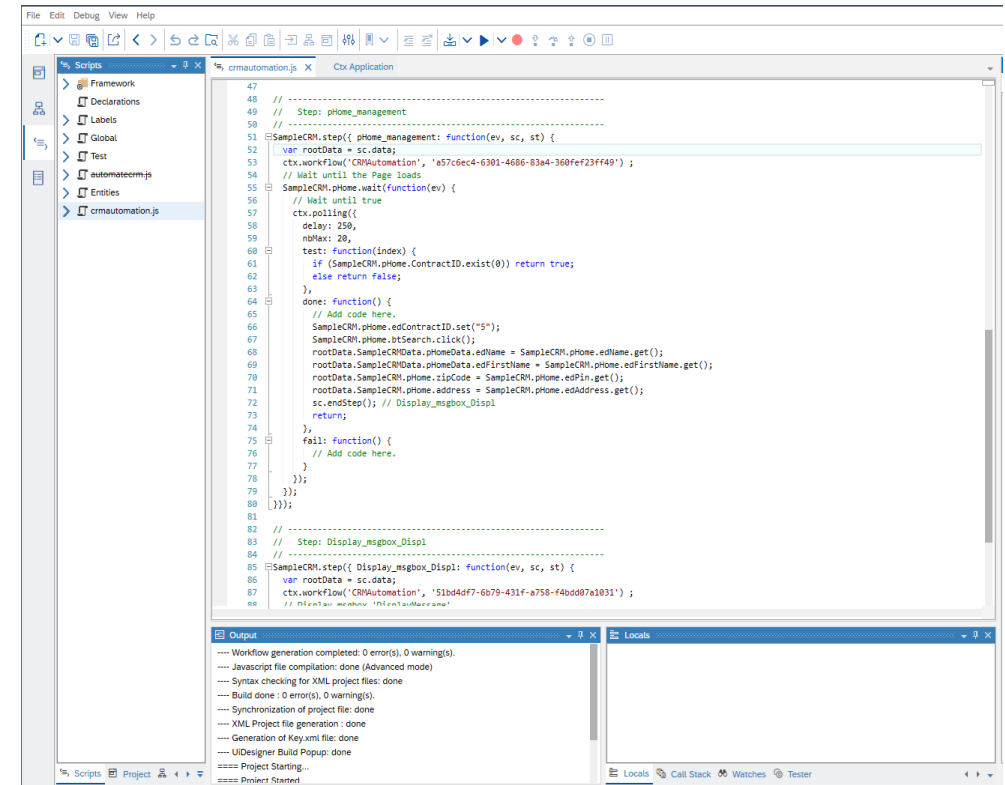
Code Generation

Workflow ← Link → Code

- Workflow to Code

1) **Right click on the Workflow PageActivity or Activity**

Choose "Go to Code"

Code Generation

Workflow ← Link → Code
Code to Workflow


1) **Right click on the Workflow generated GUID code**

2) **Choose "Go to Workflow"**
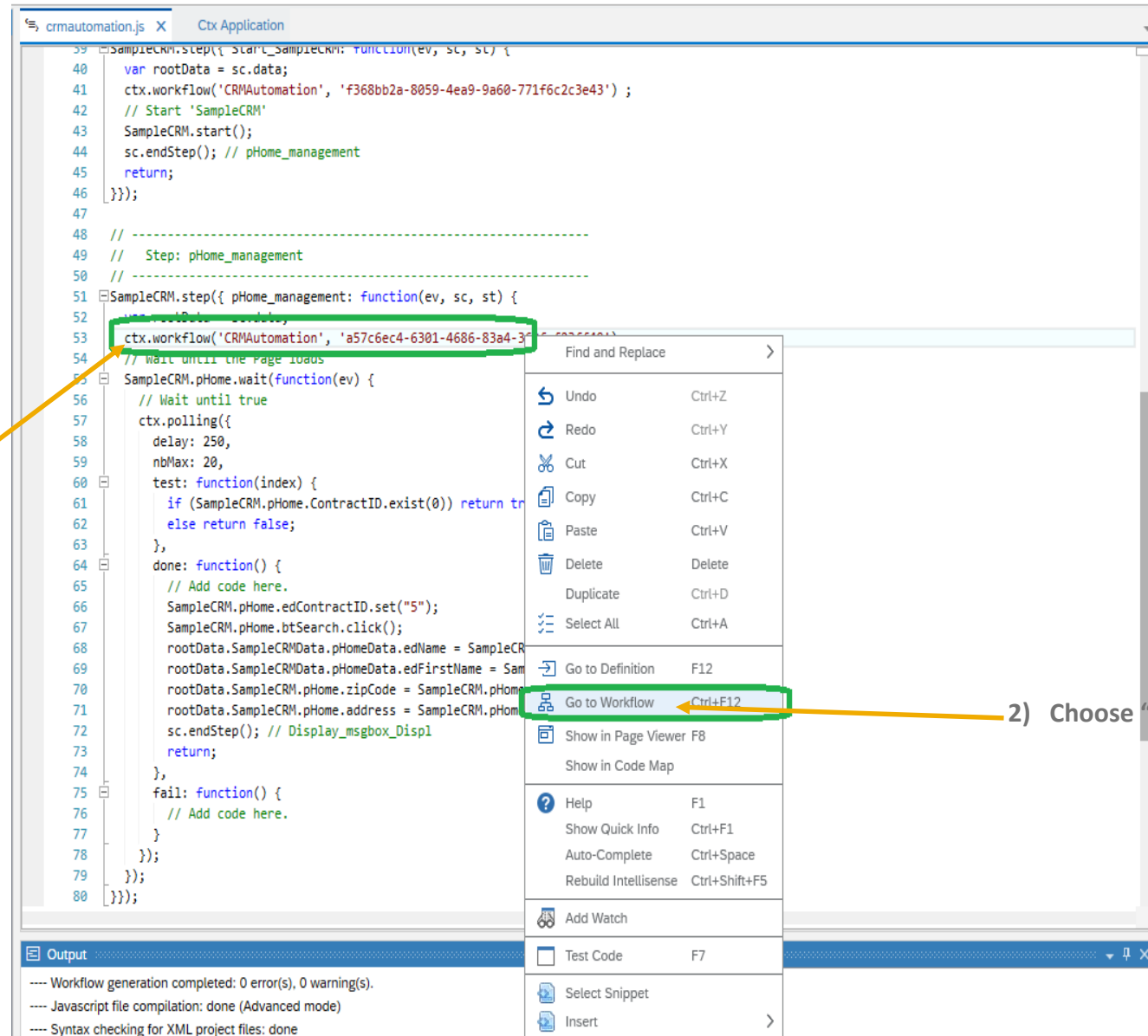
Code Generation

Code modification

- Code can be modified manually

- Workflow modifications are generated only after setting a **Merger tool**

- Managing the merge between manual and generated code
    - Merge requires a third party **3-Ways Merger tool: KDiff3, BeyondCompare, etc…**
    - Merger settings: Studio→ File→ Settings→ Workflow
    - Automatic merge is performed if possible, manual merge is required otherwise
    - Exclude Workflow → disable Code generation
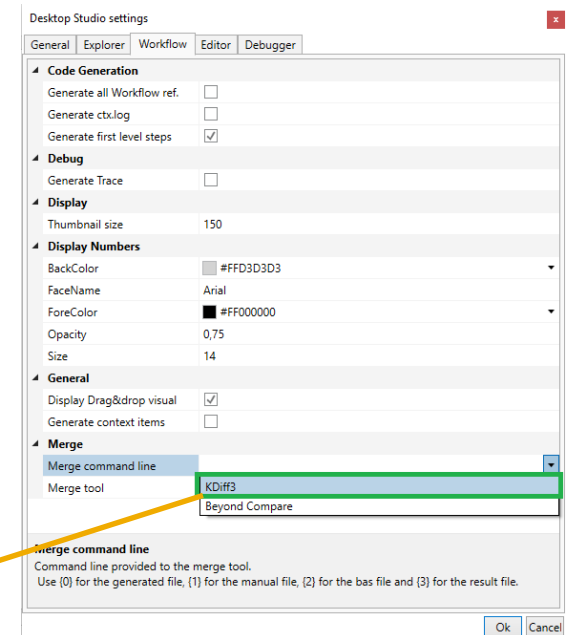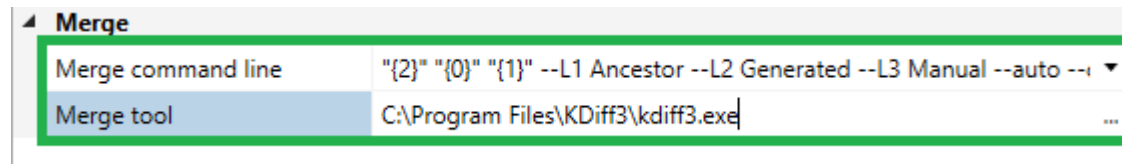
Thank you.

Contact information:

open@sap.com

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