Smart Printing Solution

Effective Approach for Mass Printing

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Agenda

- Introduction
- Solution
- Objectives
- Project overview
- Learnings

Problem Statement

- For testing Siemens Uses software named Auto scan which generated many testing report files with extension .sco
- These files are only accessible from software itself and can be converted to pdf using it only
- To print testing report worker needs to manually load every file and then print it
- This takes lots of time and efforts to print files

Some Facts !

Manual printing takes almost 2-3 hr to print 100 documents for workers

- Time Consuming
- reduce efficiency of worker as printing 100 documents might be boring task

Smart printing system reduce this time to 1/2 hr only by decreasing manual intervension

- Time Efficient
- Makes whole printing process Automatic

Objectives

To Automate whole printing process

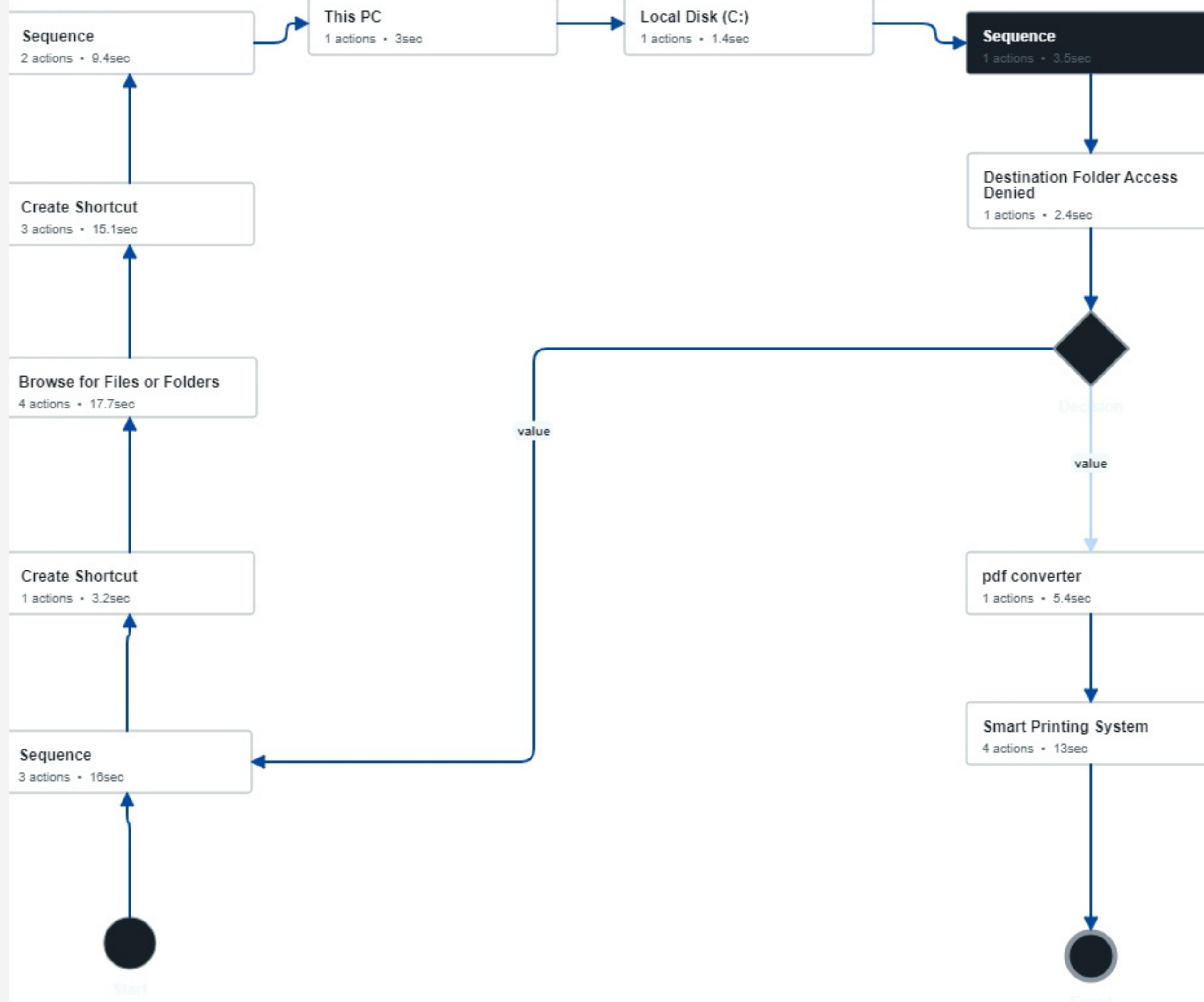To reduce Manual Intervention

Print hundreds of documents with one click

To improve efficiency of workers

Project Overview

Python Based script to automate the key presses and mouse clicks

- This uses the powerful scripting power of python
- Mouse clicks and keyboard key presses are being automated using some python module
- User friendly Interface and easy to use
- Libraries used
  1) Pyautogui (This modules provides different functions to automate GUI)
  2) tkinter (This enables user to create interface for easy use)
  3) os   (Help to interact with system)

Process Flow Chart

Learnings

- File and Directory Operations: Access files withing specific folder using os

- GUI Automation: Automate GUI interaction and control GUI elements

- Encounter different problem like error handling and pop up screens, tried solution like image processing and text manipulation

- User Input retrieval: how to take user input from GUI elements and learned to create PDD(process definition document)