

-- KAI FUTURE SAMPLE REFERENCE BOOK (v1.0)

-- PURPOSE: This book records standardized Future Sample Templates for KAI training. Whenever new automation patterns are discovered, add them here. (Reference only; Core KAI Master Training stays clean and short.)

-- FUTURE SAMPLE INDEX:

- Future Sample 1: Cloud Flow - SharePoint + Email Notification
- Future Sample 2: PAD Flow - Local Folder + Excel Handling
- Future Sample 3: Hybrid - Web UI Download + Excel + SharePoint Update
- Future Sample 4: PAD UI Automation - FileZilla + Data Abnormality Check
- Future Sample 5: PAD Web Portal Automation - EDC Report Auto-Download

-- FUTURE SAMPLE 1: Cloud Flow - SharePoint + Email Notification

- Project Goal: Monitor large customer orders from SharePoint and auto-alert finance team.
- File/Data Location: SharePoint List
- KPI Field: Order Amount
- Traditional Actions: ST1: Get items → ST2: Filter array → ST3: Apply to each → ST4: Send an email
- Smart LEGO Workflow: | Line | Action/Connector | Purpose | Key Note | Lego Brick | | :--
--|:---|:---|:---|:---| | ST1 | Get items - SharePoint | Extract order list | Dynamic Site/List |
Site & List name | | ST2 | Filter array | Filter orders > \$10,000 | Expression | Field
condition | | ST3 | Apply to each | Loop each high-value order | Dynamic Items | N/A | |
ST4 | Send an email (V2) - Outlook | Notify Finance | Dynamic Body/To | Email address |

-- FUTURE SAMPLE 2: PAD Flow - Local Folder + Excel Handling

- Project Goal: Validate local Excel files and move invalid ones to Archive.
 - File/Data Location: Local C:\Reports
 - KPI Field: Status column
 - Traditional Actions: ST1: Open folder → ST2: Launch Excel → ST3: Read table → ST4: Condition → ST5: Move file
 - Smart LEGO Workflow: | Line | Action/Connector | Purpose | Key Note | Lego Brick | | :--
--|:---|:---|:---|:---| | ST1 | Launch Excel - PAD | Open file | Dynamic File Path | Folder
path | | ST2 | Read Excel Table - PAD | Read data | Table Range | Table name | | ST3 |
Apply to each | Loop records | CurrentItem['Status'] | N/A | | ST4 | Condition | Status not
PASS | Expression | Threshold value | | ST5 | Move file - PAD | Archive invalid |
Source/Dest Paths | Archive path |
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-- FUTURE SAMPLE 3: Hybrid - Web UI Download + Excel + SharePoint Update

- Project Goal: Download latest MoveOut data, update SharePoint.
 - File/Data Location: Web URL → Local Folder → SharePoint
 - KPI Field: Lot Number, MoveOut Date
 - Traditional Actions: ST1: Open web → ST2: Download → ST3: Open Excel → ST4: Extract latest → ST5: Update SharePoint
 - Smart LEGO Workflow: | Line | Action/Connector | Purpose | Key Note | Lego Brick | | :--
--|:---|:---|:---|:---| | ST1 | Launch Browser - PAD | Access report site | Dynamic URL |
URL address | | ST2 | UI Automation - PAD | Download file | UI selector | Button
position | | ST3 | Launch Excel - PAD | Open report | File path dynamic | Folder path | |
ST4 | Read Table - PAD | Extract values | Latest row | Column name | | ST5 | Update
SharePoint List - Cloud | Update document fields | Dynamic Field Mapping |
Site/List/Column |
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-- FUTURE SAMPLE 4: PAD UI Automation - FileZilla + Data Abnormality Check

- Project Goal: Collect daily Data-Summary files and detect abnormalities.
 - File/Data Location: Tester Machines → Local Folder
 - KPI Field: Summary abnormalities
 - Traditional Actions: ST1: Launch FileZilla → ST2: Connect → ST3: Download → ST4: Excel macro → ST5: Detect issue → ST6: Send notification
 - Smart LEGO Workflow: | Line | Action/Connector | Purpose | Key Note | Lego Brick | | :--
--|:---|:---|:---|:---| | ST1 | Launch FileZilla - PAD | Start FTP app | App Path | Install Path |
| ST2 | UI Automation - PAD | Connect/login | UI mapping | IP/User/Pass | | ST3 |
Download file - PAD | Get Data-Summary | Save folder | Download folder | | ST4 |
Launch Excel - PAD | Open file | File dynamic | File name | | ST5 | Macro execution -
PAD | Format file | Macro/VBA | Macro file | | ST6 | Detect abnormal - PAD | Analyze |
Expression | Threshold rule | | ST7 | Send Email - PAD/Cloud | Alert team | Email
Template | Recipient setup |
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-- FUTURE SAMPLE 5: PAD Web Portal Automation - EDC Report Auto-Download

- Project Goal: Automate downloading of EDC production reports from MES Portal.
- File/Data Location: MES Web Portal → Local folder
- KPI Field: Successful download check
- Traditional Actions: ST1: Check file → ST2: Prompt dates → ST3: Launch browser → ST4: Login → ST5: Fill form → ST6: Download → ST7: Loop till complete
- Smart LEGO Workflow: | Line | Action/Connector | Purpose | Key Note | Lego Brick | | :--
--|:---|:---|:---|:---| | ST1 | File.IfFile.DoesNotExist | Check dates.txt | Static Path | File path
| | ST2 | Display.SelectDateDialog | Get Start Date | Date input | User input | | ST3 |

Display.SelectDateDialog | Get End Date | Date input | User input | | ST4 |
Display.SelectFromListDialog | Select Frequency | List options | Daily/Weekly/Monthly |
| ST5 | WebAutomation.LaunchEdge | Open MES | URL dynamic | Site address | | ST6 |
WebAutomation.Click | Navigate portal | UI click | Button selector | | ST7 |
WebAutomation.FillForm | Populate fields | Dynamic input | Field names | | ST8 |
WebAutomation.DownloadFile | Save report | Download Path | Folder |

-- END OF FUTURE SAMPLE REFERENCE BOOK (v1.0) ☒ Add more Future Samples
below when new patterns are discovered!