



SAP® PartnerEdge®

Partner Certification Academies for SAP BTP

Utilize SAP Build for Low-Code/No-Code Applications and
Automations for Citizen Developers

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Slides: Milton Chandras, SAP

FOR INTERNAL SAP AND PARTNER USE ONLY

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- Intro - About this Partner Certification Academies Webinar
- Theoretical Parts – Mapping to Learning Journey Unit 1 & 6
- SAP Build Process Automation – Mapping to Learning Journey Unit 2
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- SAP Build Work Zone – Mapping to Learning Journey Unit 5
- Outro - About Certification Exam And Other Webinars
- Final Summary – Revision for Certification Exam

Intro



Value of Partner Certification Academies



Expand Skills

Gain expertise with SAP BTP to build on a unified platform & help customers accelerate innovation

Enhanced Learning

Get a clear understanding of the courses and certification expectations at an accelerated pace

SAP Experts

Engage with SAP experts to help navigate the content & get your questions answered live

Free certification*

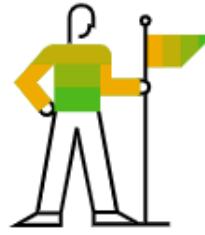
Eligible partners can get the cost of certification attempt(s) reimbursed*

Certification drives career growth and greater earning potential



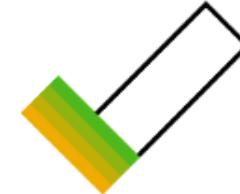
28%

salary or wage
increase



61%

promotion and
job advancement



76%

greater job
satisfaction



76%

increased respect
from peers



74%

more work autonomy
and independence



91%

increased
confidence in
abilities

Certifications are key for the new Partner Competency Framework

Visualization of Branding & Logos on Partner Assets



- Earned competencies, no specialization details



- Single earned competency, with earned specializations

Partner Finder

Partner Example

A screenshot of the SAP Partner Finder interface. At the top, there are navigation links: 'At a Glance', 'Services', and 'Loca'. Below this, a section titled 'We Transform. SAP® Solutions into Value' features a video thumbnail of a wind turbine. Underneath, there's a 'Partner Value Prop' section with 'Contact Partner' and 'Share' buttons. A 'Competencies' section lists 'Business Technology Platform' and 'Customer Experience' with a '4 more' link. The SAP Partner logo is also present.

- Identify best fit partners based on experience and capabilities
- Customer to get competency and specialization details of each partner

Specializations	ESSENTIAL		
	SOLUTION CONSULTANTS	DELIVERED PROJECTS	SPECIALIZATIONS
Database and Data Management	3	1	1
Application Development and Integration	3	1	
Analytics and Planning	3	1	

ADVANCED		
SOLUTION CONSULTANTS	DELIVERED PROJECTS	SPECIALIZATIONS
5	3	2

EXPERT			
SOLUTION CONSULTANTS	DELIVERED PROJECTS	SPECIALIZATIONS	PARTNER IP WITH BTP
10	5	3	1

How does it work?



Partner Certification Academies for SAP BTP

Utilize SAP Build for Low-Code/No-Code Applications and Automations for Citizen Developers

Pre-requisite	June 20th	June 22nd	June 29th
	Duration: 2,5 hours • SAP solution knowledge • General expertise in specific business rules and processes for your domain or line of business • Discover SAP Business Technology Platform	Duration: 2,5 hours • Intro • Theoretical Parts – Unit 1 & 6 • SAP Build Process Automation – Unit 2	Duration: 1 hour • SAP Build Apps and SAP Extensions – Unit 3 & 4 • SAP Build Work Zone – Unit 5 • Outro • Final Key Summary Points

This Academy is based on the [Utilize SAP Build for Low-Code/No-Code Applications and Automations for Citizen Developers](#) content which is part of the preparation for the associated certification exam [SAP Certified Citizen Developer Associate - SAP Build Low-code/No-code Applications and Automations \(C_LCNC_02\)](#).

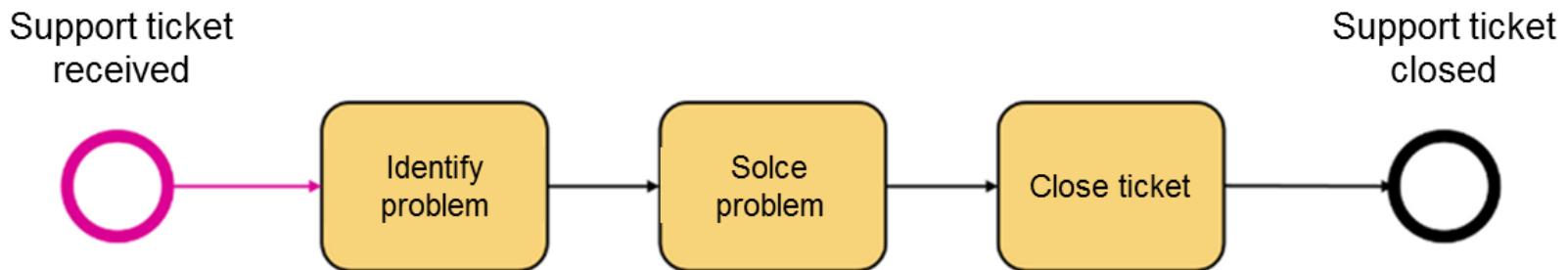
Please note that learning journey content and certification exam questions change occasionally and it is your own responsibility to ensure you are up to date with the latest learning content.

Theoretical Parts



What is a Business Process?

A business process is a repetitive set of tasks or activities that are completed to achieve a goal or outcome for a business.



A business process consists of a chain of activities, events and decisions.

Forms of Business Processes

2 major forms of business processes

- Micro
- Macro

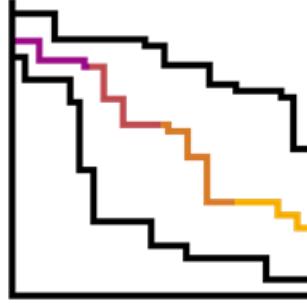
Micro Process	Macro Process
Small set of steps	Consists of many smaller processes within it
Designed to achieve a singular outcome	Larger process with a broader goal
Tend to be more linear and standardized	
Example. Submit help ticket => Receive Help => End	Example. Onboarding new employee <ul style="list-style-type: none">• Creating user account• Ordering equipment• Etc.

Long Tail Processes

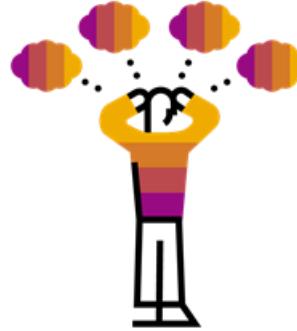
- Term to describe Micro process
- No definitive template for a process
- Multiple ways that the same process is completed
- Customized to individual situations, departments, organizations
- Undocumented, heavily reliant on manual steps

Great focus for citizen development

Consequences of Poorly Defined Processes



Missed performance expectations



Reactivity, chaos
and inconsistency



Generally poor
morale among staff

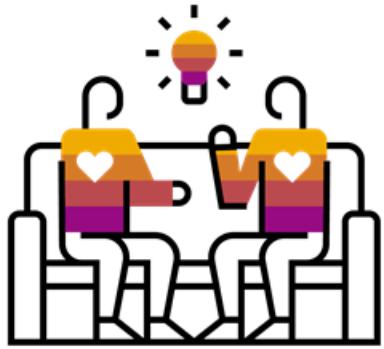


Long learning curve
for new employees



Lack of quality and
lower competitiveness

Benefits of Processes that Run Like Clockwork



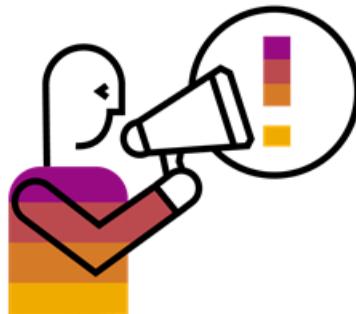
Time for creativity and problem-solving



Lower costs and increased productivity



Happier employees and customers



Better communication and employee accountability



Greater agility and responsiveness

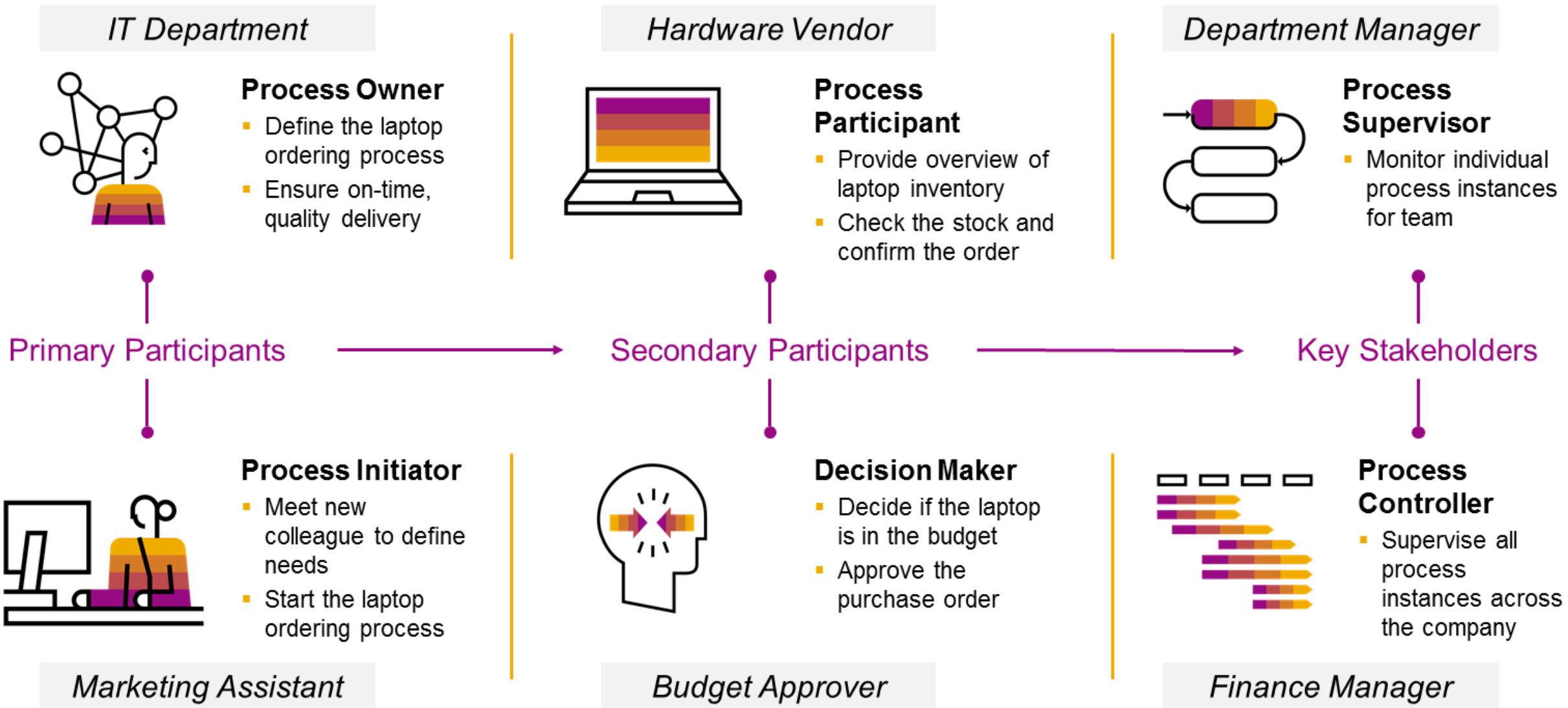
Participants in an average Business Process

3 main types of participants

- Primary participant
- Secondary participant
- Need to be kept informed of process

Primary Participant	Secondary Participant	Need to be kept informed
Process owners, Process initiators	Process Participants, Decision makers	Instance status, Metrics visibility
Example. Ordering a new laptop	Example. Ordering a new laptop	Example. Ordering a new laptop
Process owner <ul style="list-style-type: none">• Defines and owns the entire process• IT department Process initiator <ul style="list-style-type: none">• Hiring manager, HR, New employee	Process participant <ul style="list-style-type: none">• Hardware vendor Decision maker <ul style="list-style-type: none">• Approver	Informed about individual instance <ul style="list-style-type: none">• Manager Informed about wider overview <ul style="list-style-type: none">• Financial controller

Roles Involved in a Laptop Ordering Process



Business Process Management (BPM)

- Business Process Management is how an organization can analyze, measure and improve its processes
- Can bring great benefits
- Can also create resistance to adaptation
- Important to strike right balance between standardization and flexibility
- **Methodology itself is not a software, but can be greatly facilitated by software**

Business Process Management Software

Enterprise level software that enable business to design, model, execute, automate, monitor and improve their process

Benefits

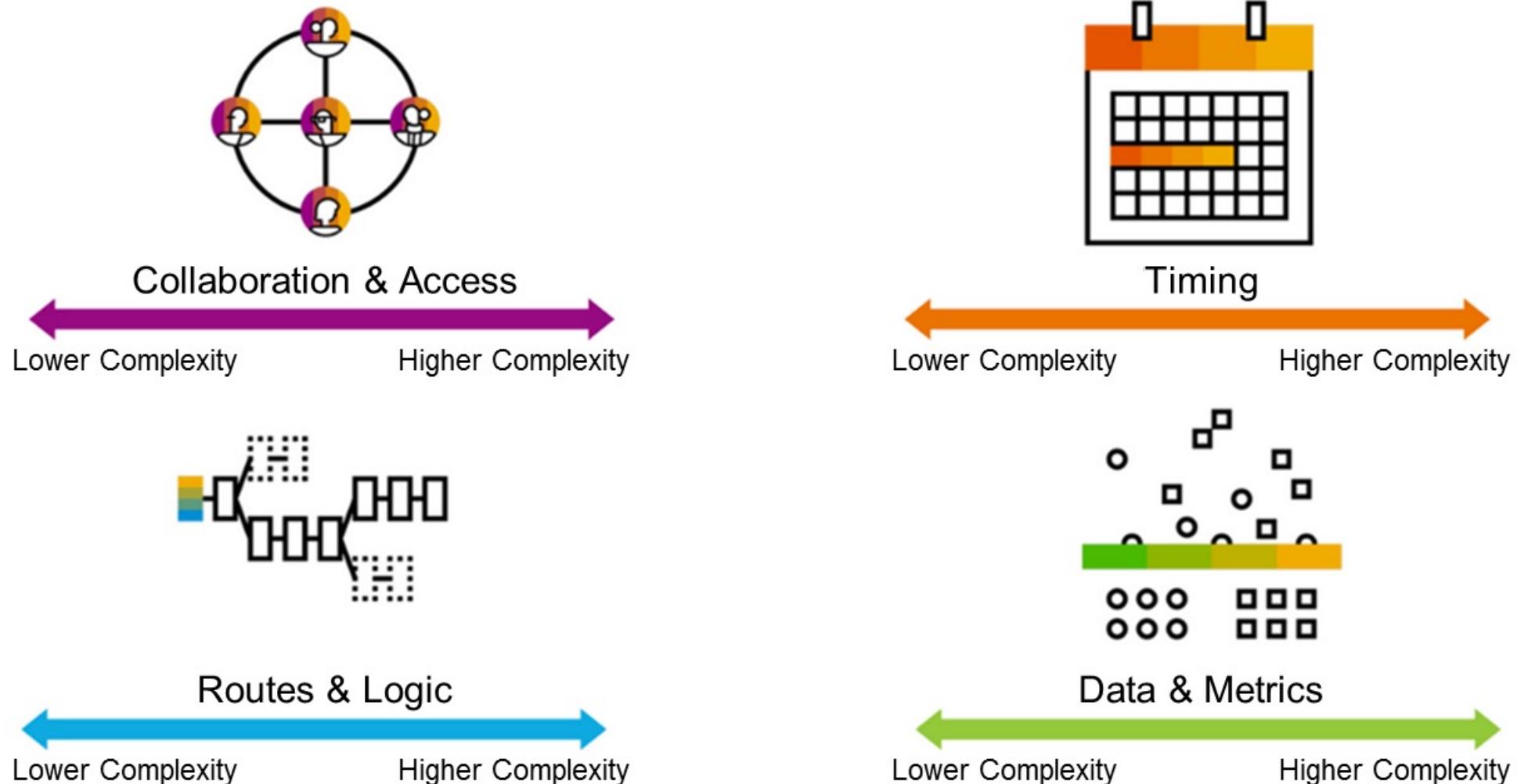
- Efficiency – standardized set of tools to manage processes
- Identify problems quickly
- Collaboration between departments – easier and automatic
- Frees people from doing boring / chaotic work

Automation Capabilities

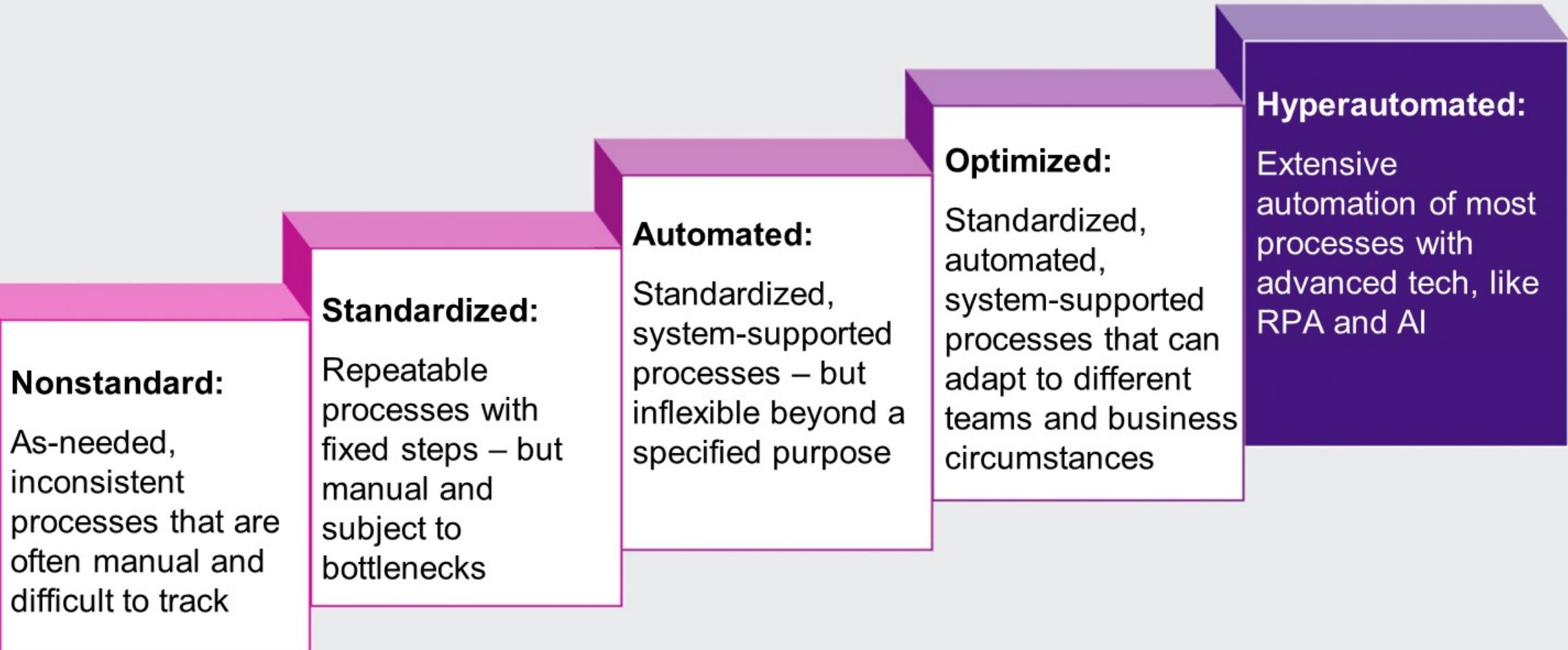
- Process automation – Perform complex business process automatically

Factors for Complexity

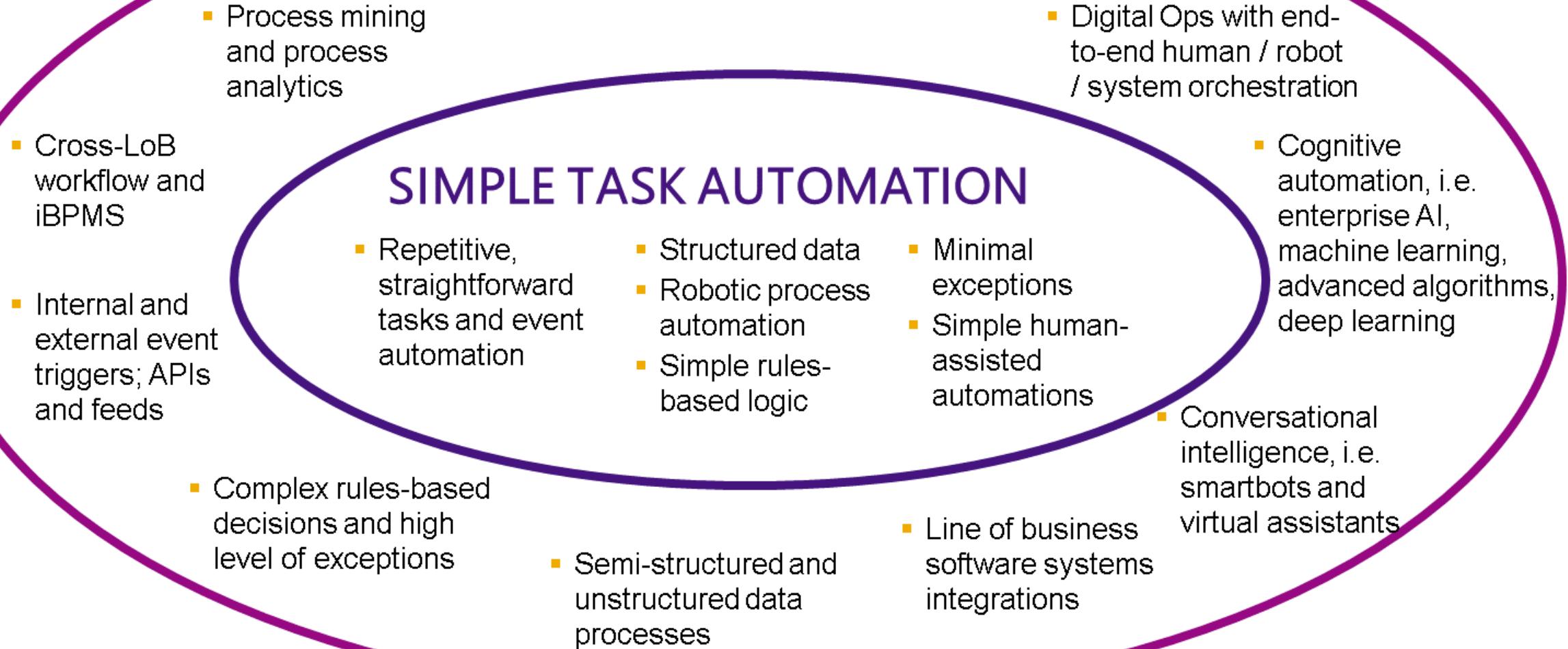
Each business process has unique goals, paths and needs. There are four key factors that increase the complexity of mapping, running and automating a business process.



The Process Automation Maturity Spectrum



HYPERAUTOMATION



Enterprise Problems and LCNC Solutions

Enterprise problems driving move to Hyperautomation

- Exponential increase in data
- Global shortage of skilled IT personnel
 - In 2021, shortage close to 40 million IT folks globally
 - Expected to reach more than 85 million IT folks by 2030

Hyperautomation using newer technology

- Artificial Intelligence (AI), Machine Learning (ML), Robotic Process Automation (RPA)
- Combined with Low-Code / No-Code tools

Challenges of organizations' digitalization

Organizations today are facing critical digitalization challenges and they struggle to innovate at the speed the business demands.

Rapidly evolving customer requirements are accelerating the demand for cloud solutions.

Limited development resources are inhibiting digitalization.

Complex IT landscapes with a growing number of applications are maintained by companies.

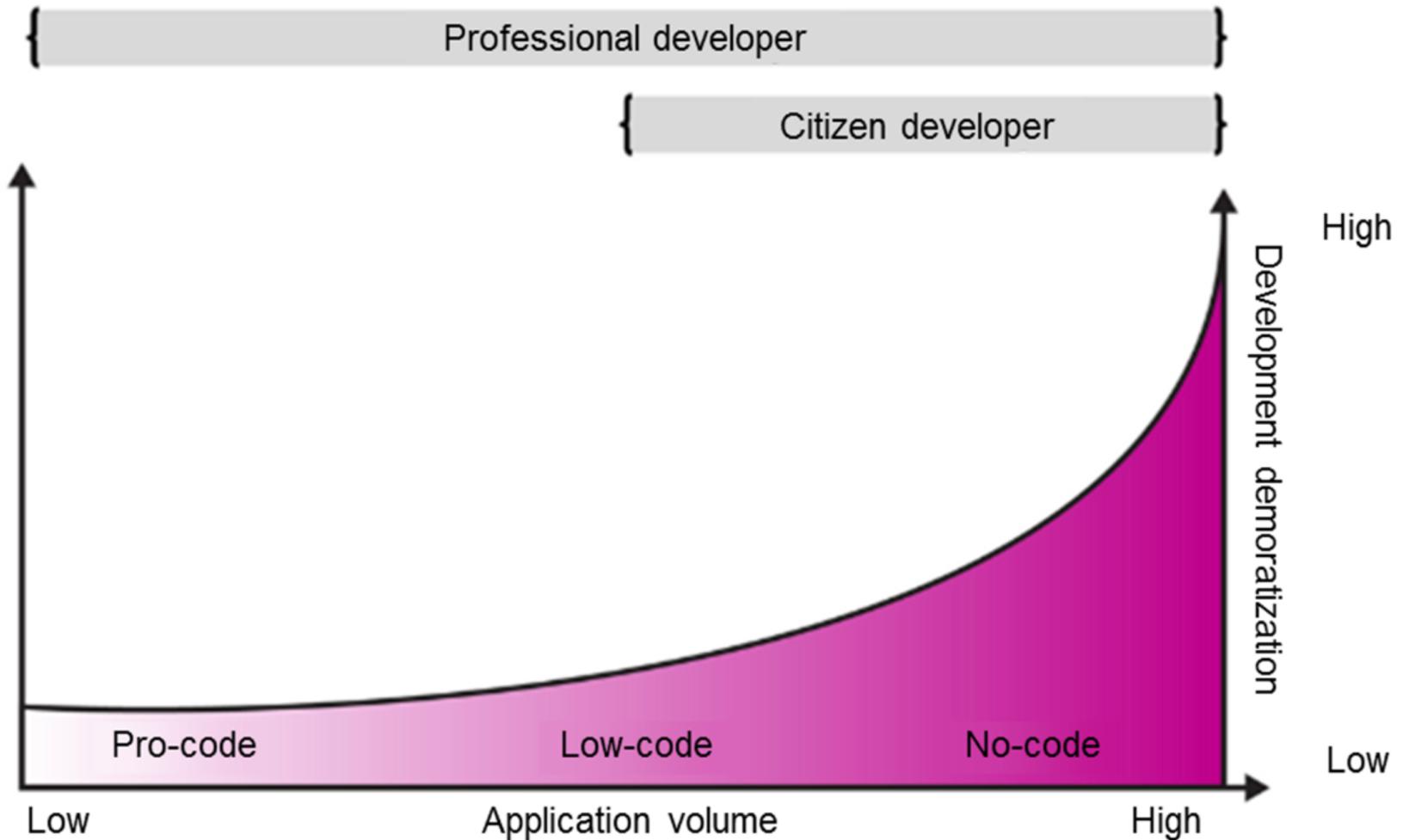
Challenges, Roadblocks, Coping Strategies

- No overarching strategy or roadmap
- Lack of transparency about software in use
- Incomplete or missing documentation
- Inadequate training opportunities
- Drawbacks of Shadow IT
 - Any kind of technical workaround not approved by IT
 - Can be quick fixes for urgent needs, but with dire consequences

Low-Code / No-Code adoption

- IT department can set up a citizen development **Center of Excellence**
 - Define the strategy and goals for implementing low-code / no-code program
 - Actively help the growth of citizen development at your company
- Find or create stakeholders – Right program to roll out
- Training is vital – for all key personas
- Fast wins by leveraging pre-built content

Citizen Developer



Citizen Development and Low-Code/No-Code Platform

versus code-first platform



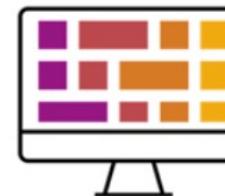
Enhanced ROI by optimizing existing investments using simplified SAP integrations



Maximized speed and agility through accelerated delivery



Increased adoption of new processes and applications



Greater collaboration through co-development between business and IT



Accelerated time to value, using support for best practices with industry- and LoB-specific prebuilt content



Reduced the total cost of enterprise software development

Low-Code / No-Code Development

No-Code Development

- Disruptive technology
- Primary Participant of a Business Process

Low-Code Development

- Slightly more complex than No-Code
- Some knowledge of logic and analytical thinking

SAP Build

- SAP Build Process Automation (f.k.a. SAP Process Automation)
 - Jumpstart automation projects with 340+ line-of-business and industry-specific process content packages, RPA bots and connectors
 - Action projects can encapsulate APIs as simple to use logic and make them available to business users for use in low-code projects.
- SAP Build Apps (f.k.a. SAP AppGyver)
 - Build mobile and web apps using 500+ templates and pre-built business logic components
 - REST integration wizard for modern APIs, SAP BTP Authentication for login and access control, and native integration with SAP Service Cloud.
- SAP Build Work Zone (f.k.a. SAP Work Zone and SAP Launchpad service)
 - Boost time to value with pre-built line-of-business-specific content packages (for example, for SAP Success Factors)
 - Leverage APIs and pre-built UI-integration cards to create a single access point to applications, processes, information, and data on any device.

Identify typical scenarios for automation and applications

- Automate manual, repetitive tasks such as copy-pasting data into a spreadsheet.
- Digitalize manual and semi-automated processes, for example, capital expenditure approvals.
- Automate when there is a high volume of process steps, think of entering sales order data.
- Automatically aggregate data from multiple systems, and purchase record updates.
- Extend and adapt the standard flows of your business applications (SAP or non-SAP, on-premise or in the cloud), for example adding several levels of approvals for a sales order.
- Automate end-to-end cross-application workflows, that span several systems (for example your ERP and your human resources (HR) systems), in employee onboarding processes.

End-to-End processes (with sub-processes) for automation

- Lead-to-cash (finance) –capital expenditure approvals, invoice approvals, and account opening.
- Hire-to-retire (HR) —relocation, visa permits, HR employee self-services, managing contingent workers.
- Design-to-operate (general) –updating master data records, document approval, and lead generation workflows.
- Source-to-pay (procurement) –return order process, incident management, procurement data collection.

SAP Build Personas

Professional developers

- Code-first programmers with skills in various coding languages and technologies who designs, develops, tests and deploys cloud native apps and reusable services following a development lifecycle with testing and versioning.

Citizen developers (a.k.a. business builders)

- No coding skills, but deep business expertise and technical acumen (not necessarily IT-skills). Builds and publishes LCNC apps and customizations. Uses IT-sanctioned tools and platform-supported processes. Is unaware of DevOps aspects but learns through citizen developer education.

IT administrators

- The DevOps team has the IT skills to build, run, manage, and maintain the software systems, security and governance.
- IT departments want to use low-code/no-code because data and processes are too fragmented. Legacy systems are limited and slow to improve, and they are unable to respond quickly to business requirements.

Fusion teams:

Business users and experienced developers can collaborate on projects using the development solutions that best fit their respective skills.

- Business users: domain expertise
- Experienced developers; leverage code-first solutions to develop complex logic and make it available for business users
- IT: safeguard operations

Set Up SAP Build

Prerequisites for the free editions

- Open BTP Pay-as-you-go Enterprise Account (not Trial Account) [Get an Account on SAP BTP to Try Out Free Tier Service Plans](#)
- SAP Build Process Automation
 - Run the booster: [procedure](#)
 - robotic programming automation: download Desktop Agent <https://tools.hana.ondemand.com/#cloud> (Windows OS only)
- SAP Build Apps
 - Run the booster: [procedure](#)
 - Install Preview app on mobile devices (from [GooglePlay](#) for Android phone or [Apple Store](#) for iPhone)
- SAP Work Zone: no hands-on exercises in this Learning Journey (details in [a dedicated Learning Journey](#))

Learning Channels

Finding More Ways to Learn the SAP Build Toolset

In this topic, you will learn about the available channels to find information about low-code / no-code learning and SAP Build content:

- SAP Learning
- SAP Discovery Center
- SAP Community
- SAP Help Portal
- SAP Build YouTube
- SAP Build LinkedIn

What have we learnt so far

- What is a Business Process ?
- Key roles in a Business Process
- What is Business Process Management and its software ?
- Process automation in your business
- Challenges of implementing automation
- New field of Hyperautomation
- What are Citizen Development, LCNC?
- Key personas of LCNC
- Challenges, roadblocks and coping strategies to LCNC
- Low-Code / No-Code adoption

Key Summary Points

Primary Participant	Secondary Participant	Need to be kept informed
Process owners, Process initiators	Process Participants, Decision makers	Instance status, Metrics visibility
Example. Ordering a new laptop Process owner <ul style="list-style-type: none">• Defines and owns the entire process• IT department Process initiator <ul style="list-style-type: none">• Hiring manager, HR, New employee	Example. Ordering a new laptop Process participant <ul style="list-style-type: none">• Hardware vendor Decision maker <ul style="list-style-type: none">• Approver	Example. Ordering a new laptop Informed about individual instance <ul style="list-style-type: none">• Manager Informed about wider overview <ul style="list-style-type: none">• Financial controller

Key Summary Points

Hyperautomation

Rapidly identify and automate as many business and IT processes as possible

Achieved using multiple technologies, tools, platforms including

- Artificial Intelligence (AI)
- Machine Learning (ML)
- Robotic Process Automation (RPA)
- Business Process Management Software (BPMS)
- Low code No code tools

Key Summary Points

2 major forms of business processes

- Micro
- Macro

Micro Process	Macro Process
Small set of steps	Consists of many smaller processes within it
Designed to achieve a singular outcome	Larger process with a broader goal
Tend to be more linear and standardized	
Example. Submit help ticket => Receive Help => End	Example. Onboarding new employee <ul style="list-style-type: none">• Creating user account• Ordering equipment• Etc.

Key Summary Points

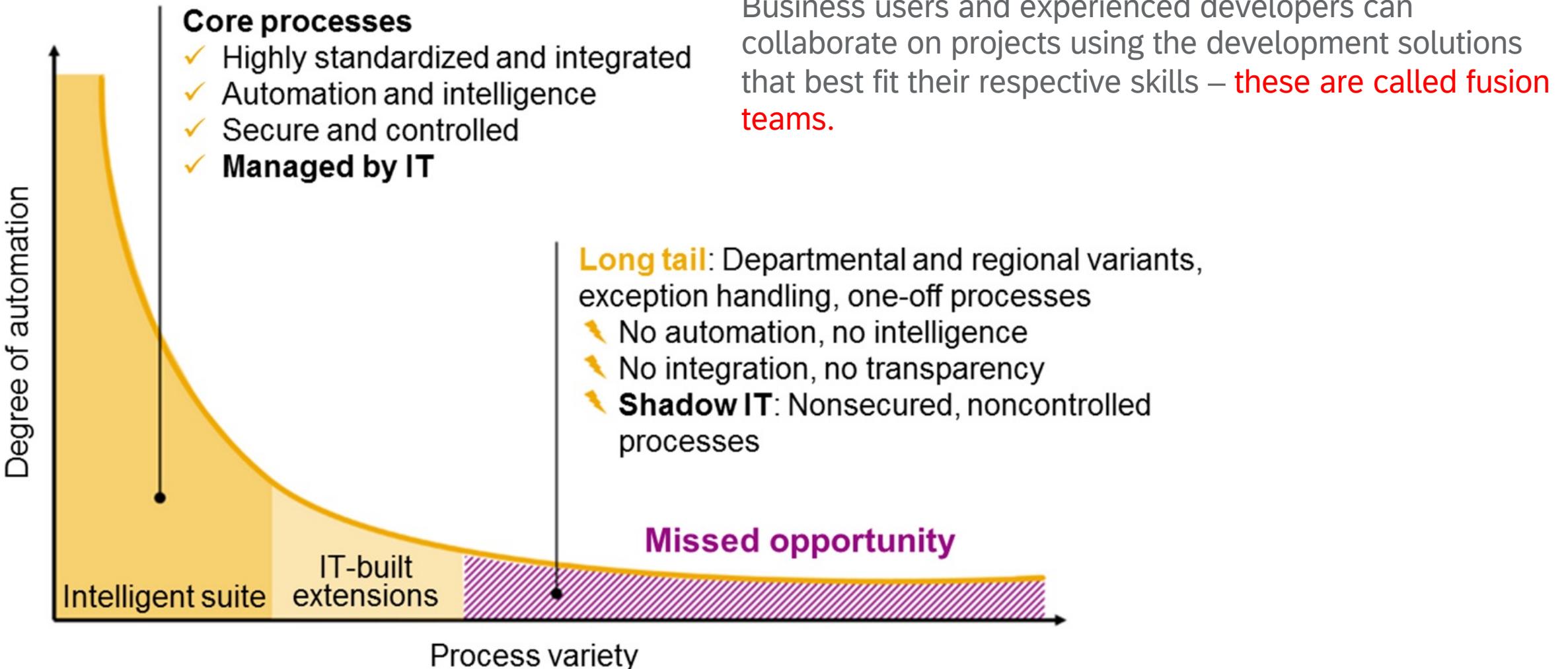
Question 3

Choose the correct answer.

A business process which is customized to individual situations, departments, or organizations is known as a what?

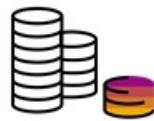
- Long tail process
- Long lead process
- Long legged process
- Long side process

Key Summary Points



Why choose low-code/no-code application development from SAP?

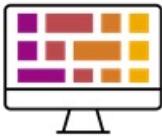
Our no-code/low-code approach offers valuable benefits for your business.



Enhanced ROI by optimizing using simplified integrations from SAP



Maximized speed and agility through accelerated delivery



Increased adoption of new processes and applications



Greater collaboration through co-development between business and IT



Accelerated time to value, using support for best practices with industry- and LoB-specific prebuilt content



Reduced total cost of development



Key Summary Points

Question 6

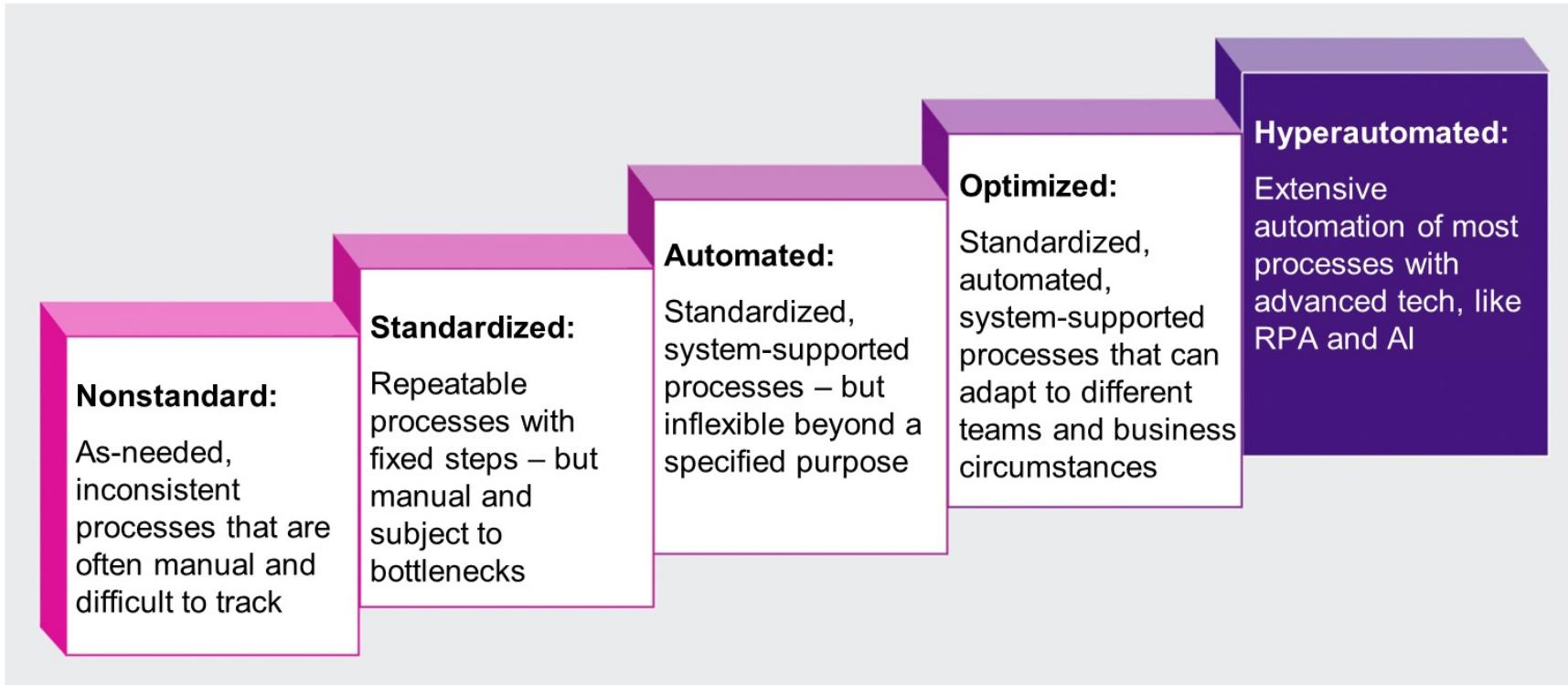
Choose the correct answer(s).

Which of the following are considered a benefit of a well-defined business process?

- Improved efficiency
- Streamlined communication
- Increased organizational agility
- Reduced headcount

Key Summary Points

The Process Automation Maturity Spectrum



Key Summary Points

Question 14

Choose the correct answer(s).

Which of the following are typically major features of Business Process Management Software (BPMS)?

- ✓ Drag and drop form builder
- ✓ Visual process designer
- ✓ Testing and simulation tools
- Video editing

Key Summary Points

Question 17

Choose the correct answer(s).

Timing is one of the key complexity factors involved in automating business processes. What are the other three?

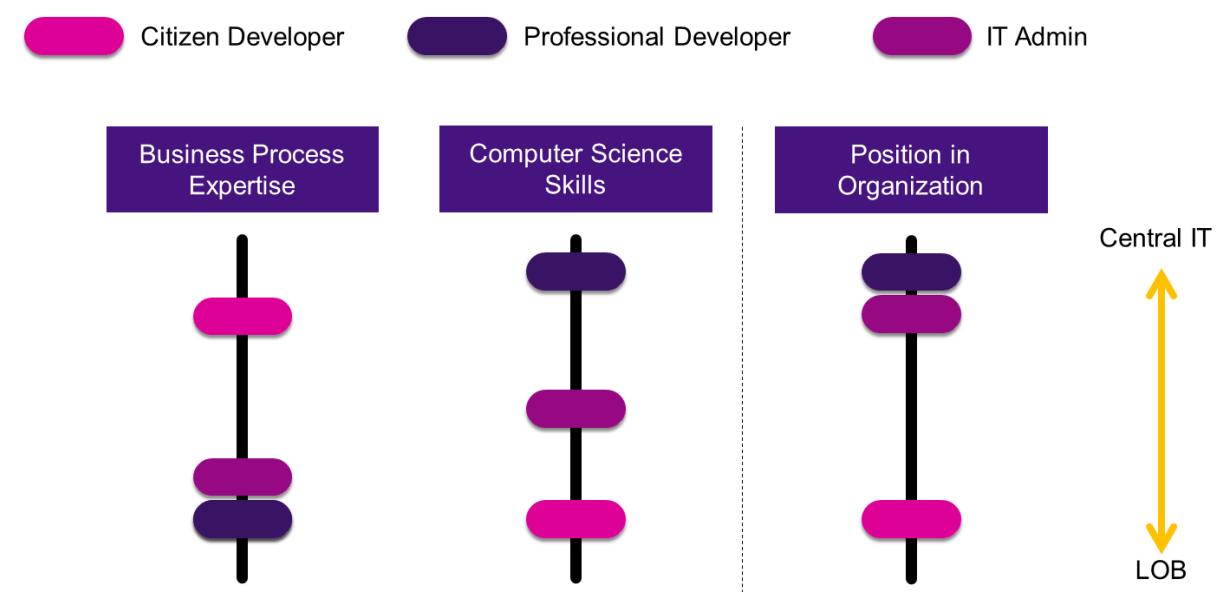
- Collaboration and access
- Routes and logic
- Affordability
- Data and metrics



Key Summary Points

- Citizen Developers
 - Primary Participant, Business users
 - Low computer science skills
- Professional Developers
- IT Administrators

Summary of Skills Along the Developer Continuum



Key Summary Points

Enterprise problems driving move to Hyperautomation

- Exponential increase in data
- Global shortage of skilled IT personnel
 - In 2021, shortage close to 40 million IT folks globally
 - Expected to reach more than 85 million IT folks by 2030

Hyperautomation using newer technology

- Artificial Intelligence (AI), Machine Learning (ML), Robotic Process Automation (RPA)
- Combined with Low-Code / No-Code tools

Key Summary Points

- Drawbacks of Shadow IT
 - Any kind of technical workaround not approved by IT
 - Can be quick fixes for urgent needs, but with dire consequences

Key Summary Points

Question 1

Choose the correct answer(s).

What problems are low-code / no-code and citizen development able to address for the enterprise?

- A worldwide shortage of skilled IT workers.
- Growing IT backlogs.
- The prevalence of shadow IT.
- Too many low-quality enterprise resource management systems.

Key Summary Points

Question 2

Choose the correct answer.

What is no-code development primarily intended for?

- To help employees that are process experts to automate tasks and build simple applications.
- To replace the need for professional developers in big companies.
- To simplify complex development projects.

Key Summary Points

Question 3

Choose the correct answer(s).

How does hyperautomation relate to low-code /no-code and citizen development?

- It doesn't, only professional developers can work with hyperautomation technologies.
- It allows citizen developers to work with robotic process automation.
- It makes intelligent technologies, such as AI, more accessible.
- It takes care of simple task automation.

Key Summary Points

Question 6

Choose the correct answer(s).

What are the benefits of low-code / no-code and hyperautomation to companies?

- Maximize the value they can get from existing applications.
- Increasing customer satisfaction due to faster working speed with fewer errors.
- Increasing employee satisfaction by minimizing their time on boring, repetitive work.
- No training required for employees to get started.

Key Summary Points

Question 7

Choose the correct answer(s).

What are some challenges and roadblocks to implementing low-code / no-code and citizen development?

- No overarching strategy or roadmap.
- Processes are not clearly documented or understood.
- Affordability
- Lack of training programs.

Key Summary Points

Question 9

Choose the correct answer(s).

What is pre-built content?

- Content packages that have been pre-built to address common automation use cases in the enterprise.
- Development packages that only professional developers can use.
- Workflows and bots that have been developed for out-of-box use and can be found in marketplaces.
- Pre-built content is training material that must be learned in order to start using low-code / no-code.

Key Summary Points

Question 10

Choose the correct answer(s).



How can you foster citizen development in your company?

- Find or create stakeholders that believe in the problem and solution.
- Promote and take the trainings offered to learn about it.
- Start with pre-built content and the easiest use cases.
- Leave it to the IT department to inform the organization when the timing is right.

SAP Build Process Automation



Getting started with SAP Build Process Automation

Pre-requisites

- Setting up SAP Build Process Automation using the Booster
- Install and setup desktop agent

<https://tools.hana.ondemand.com/#cloud>

SAP Intelligent Robotic Process Automation: Desktop Components for Trial

SAP Intelligent Robotic Process Automation is a hybrid solution made of three components:

- Desktop Studio for designing the automation processes
- Cloud Factory trial tenant for orchestrating the automation
- Desktop Agent for executing the automation

Find below the desktop components, i.e. Desktop Studio and Desktop Agent, that are required to design and execute your bots.

For more information on how to install and set up these desktop components, see the [documentation](#).

Operating System	Version	File Size	Download
Windows (x86_64)	2.0.18.63	324.3 MB	sap-intelligent-roa-2.0.18.63.msi (sha1)
Windows (x86_64)	2.0.19.50	324.3 MB	sap-intelligent-roa-2.0.19.50.msi (sha1)
Windows (x86_64)	2.0.20.91	324.3 MB	sap-intelligent-roa-2.0.20.91.msi (sha1)
Windows (x86_64)	2.0.21.103	324.3 MB	sap-intelligent-roa-2.0.21.103.msi (sha1)
Windows (x86_64)	2.0.22.91	324.3 MB	sap-intelligent-roa-2.0.22.91.msi (sha1)
Windows (x86_64)	2.0.23.85	324.3 MB	sap-intelligent-roa-2.0.23.85.msi (sha1)

More Information

The downloads are provided under the terms of the [SAP DEVELOPER LICENSE AGREEMENT](#).

Getting started with SAP Build Process Automation

The screenshot shows the SAP Cloud Platform Subaccount service marketplace interface. On the left, a navigation sidebar lists various services under categories like Overview, Services, Connectivity, Security, Entitlements, and Usage Analytics. The 'Instances and Subscriptions' link under the Services category is highlighted with a red box. The main content area displays a table of subscribed applications, with the 'SAP Process Automation' row highlighted by a red box.

Subaccount

All: bb

To manage the Cloud Foundry user-provided service instances, navigate to Cloud Foundry - Spaces, select your space, and then from Service Marketplace, choose the service instance you want to manage.

Search All Services All Plans

Subscriptions (12) Instances (51) Environments (2)

Applications to which your subaccount is currently subscribed

Application	Plan	Labels
Web access for ABAP	default	
SAP AI Launchpad	standard	
Document Information Extraction UI	default	
Event Mesh	standard	
SAP IoT	oneproduct	
Integration Suite	standard_edition	1 label ▾
SAP Process Automation	standard	
SAP Conversational AI	standard	
SAP AppGyver	standard	
SAP Business Application Studio	standard-edition	
Launchpad Service	standard	
Subscription Management Dashboard	application	

Introducing SAP Build Process Automation

Important new tool for Hyperautomation

- SAP Build Process Automation
- Business Process expert can digitize your workflows using LCNC

Things to consider for Business Automation



Rapidly changing,
very volatile market
conditions

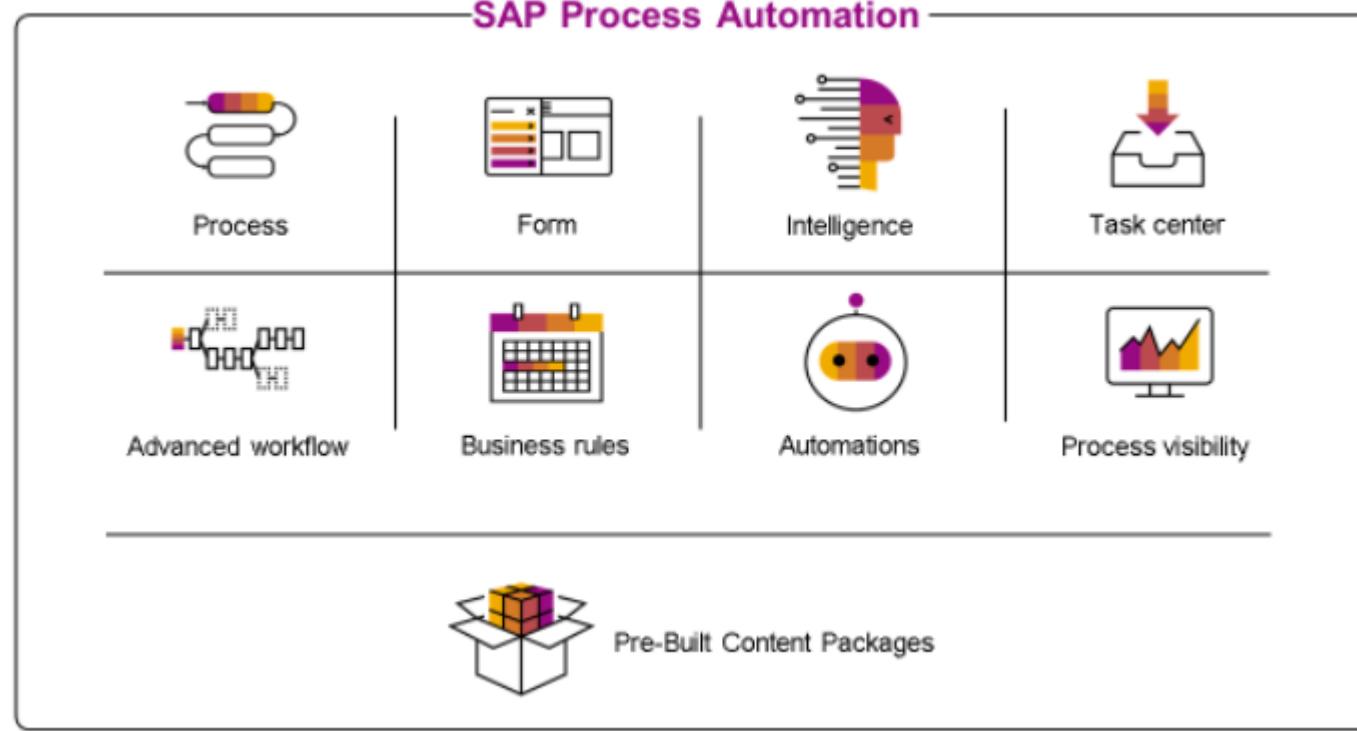


Being connected
to the relevant
business applications



Acquire the tools that will
let you deliver a solution
yourself

Introducing SAP Build Process Automation



Process: ability to create processes using drag and drop tools

Advanced workflow: reuse workflows from SAP Workflow Management

Form: view information, approve and reject requests

Business rules: include policies in the process flow

Intelligence: make use of some ML

Automations: use RPA for automations

Process visibility: monitor performance of processes

Task center: one inbox to handle all the tasks

Content: pre-built, directly usable packages

Introduction to SAP Build Process Automation



Simplify automation



Automate faster



Operate confidently

Use cases for automation

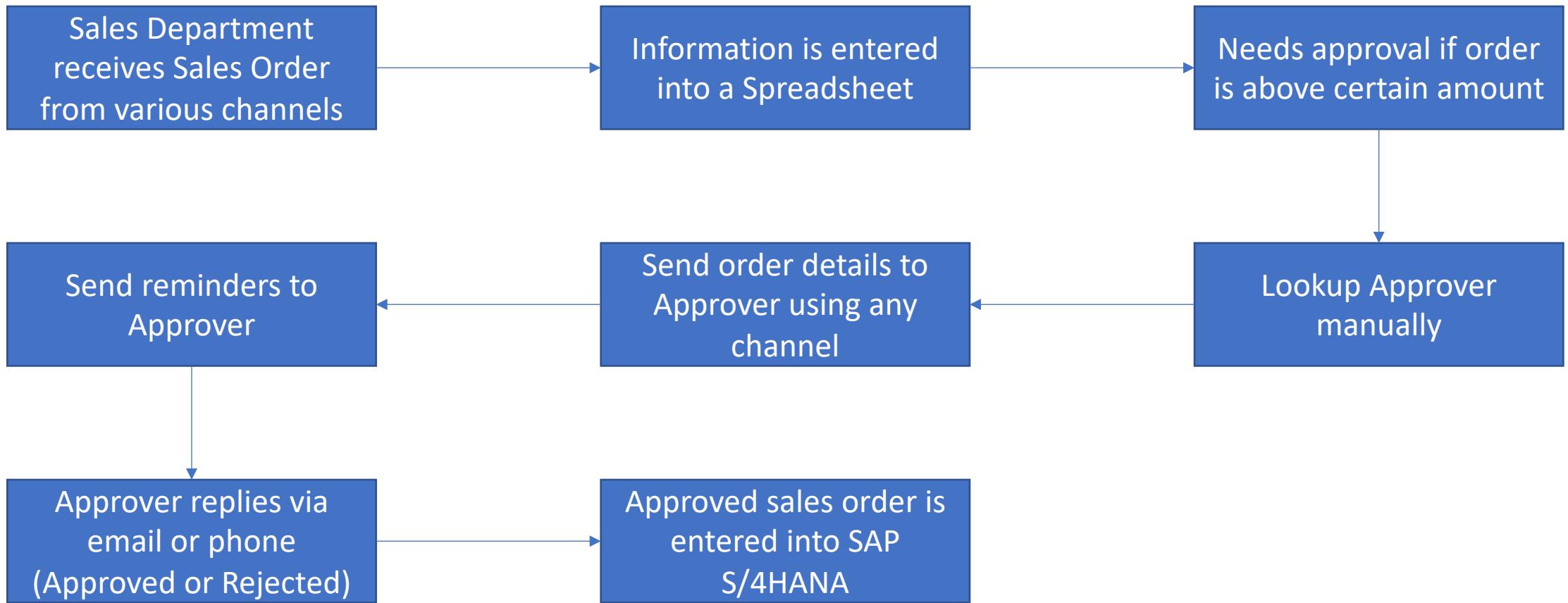
Lead-to-cash – for example, capital expenditure approvals, invoice approvals, account opening.

Hire-to-retire – for example, relocation, visa permits, HR employee self-services, managing contingent workers.

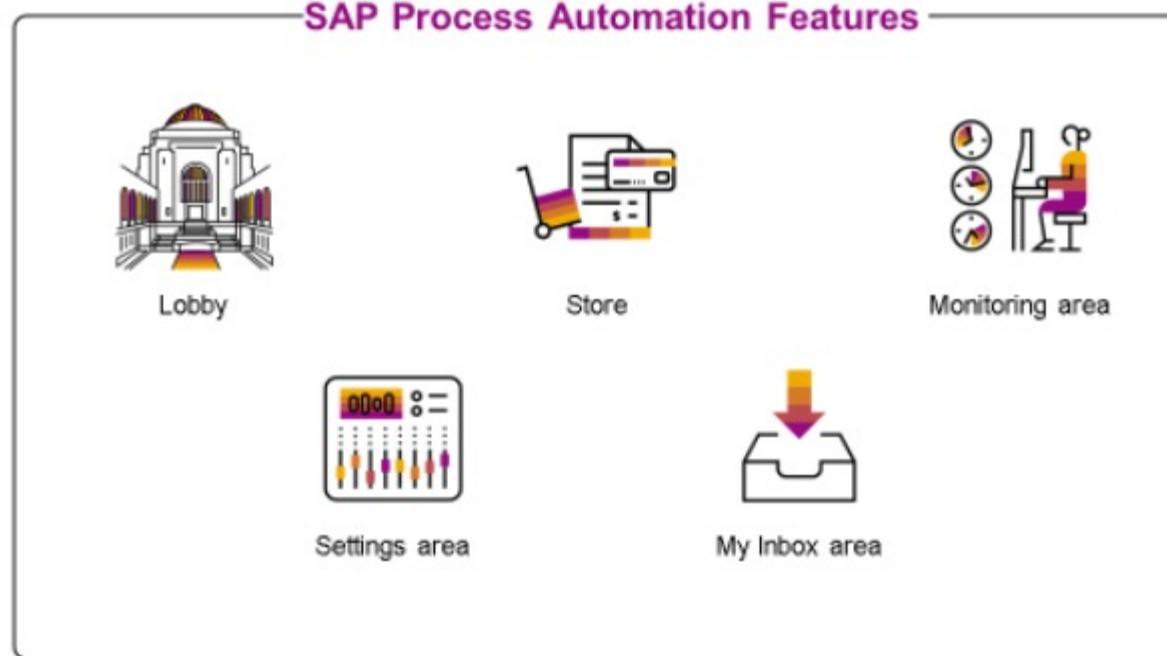
Design-to-operate – for example, updating master data records, document approval, lead generation workflows.

Source-to-pay – for example, return order process, incident management, procurement data collection.

Sales Order Management Approval



SAP Build Process Automation Features



SAP Application Development

Lobby Store Monitor Settings

1 2 3 4

Quick Start

5 HS

Hide

This screenshot shows the SAP Application Development interface. At the top, there's a navigation bar with tabs: 'Lobby' (underlined), 'Store', 'Monitor', and 'Settings'. Below the navigation bar, there are four large orange circles numbered 1, 2, 3, and 4. To the left of these numbers is the text 'Quick Start'. On the right side of the interface, there are three circular icons: a yellow one with the number 5 and download/handshake symbols, a blue one labeled 'HS', and a grey one labeled 'Hide'.

SAP Build Process Automation Features

Lobby

- Create, manage, deploy business processes

Store

- Browse, add and use pre-packaged projects offered by SAP

Monitor

- View and manage specific processes, automation jobs

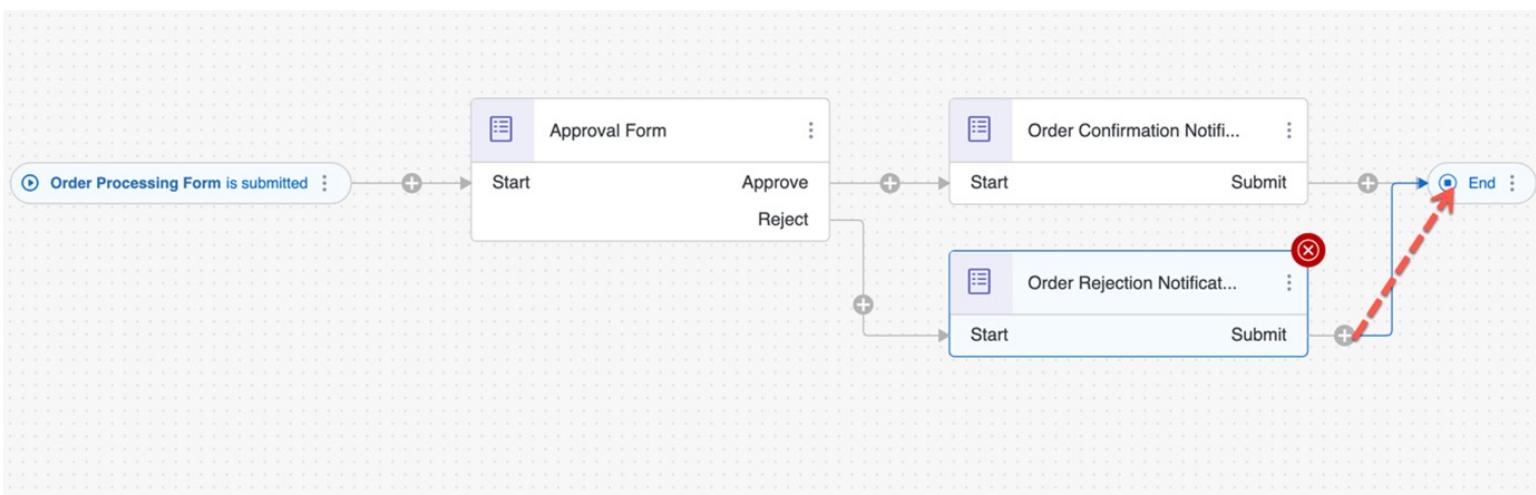
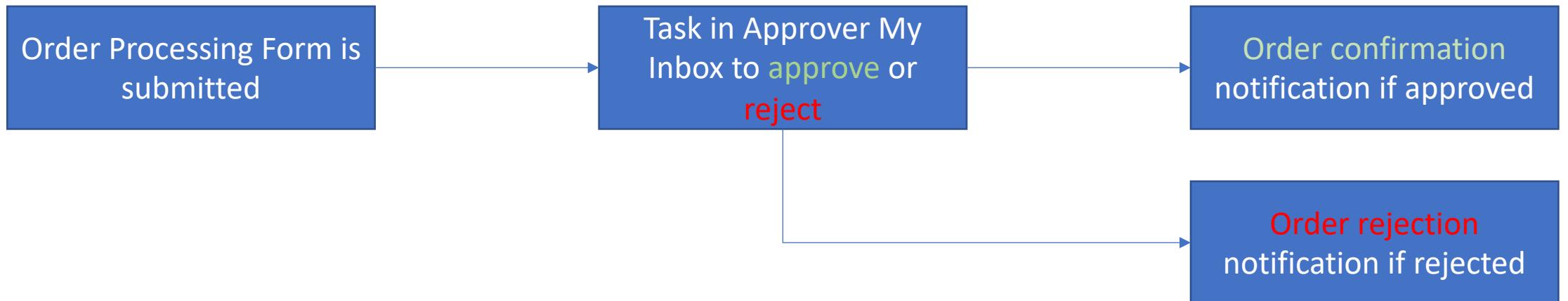
Settings

- Configure and manage desktop agents, backend settings, API keys

My Inbox

- Displaying processing your tasks

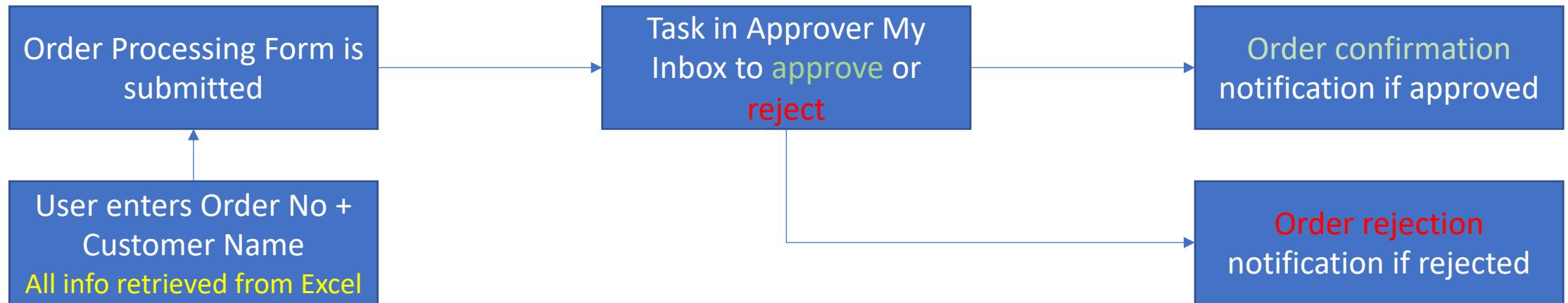
Get started with a Business Process



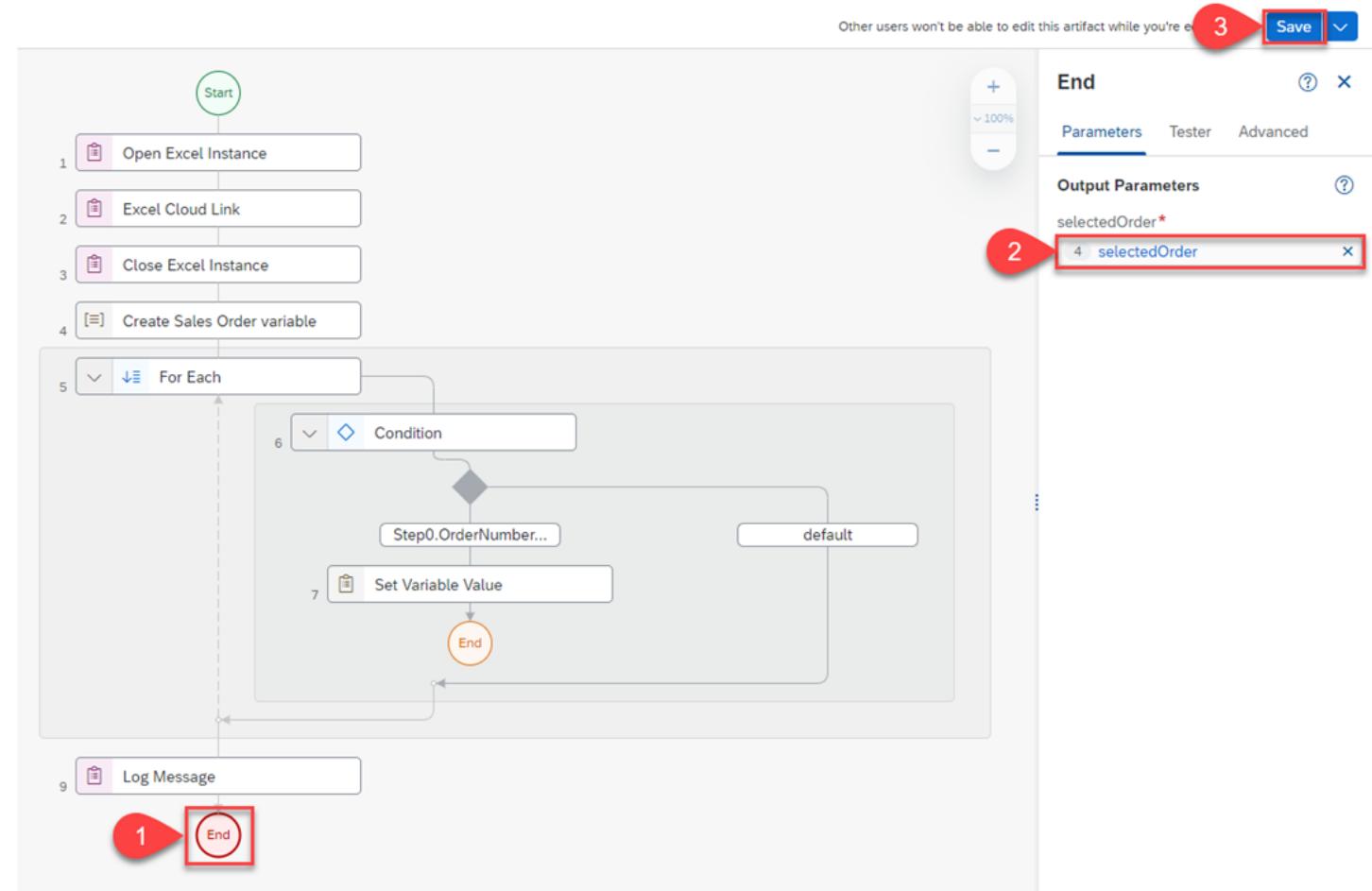
Steps involved

- Create 4 forms
 - Order Processing Form
 - Approval Form
 - Order Confirmation Notification Form
 - Order Rejection Notification Form
- Connect them all together

Boosting Business Process with Automation



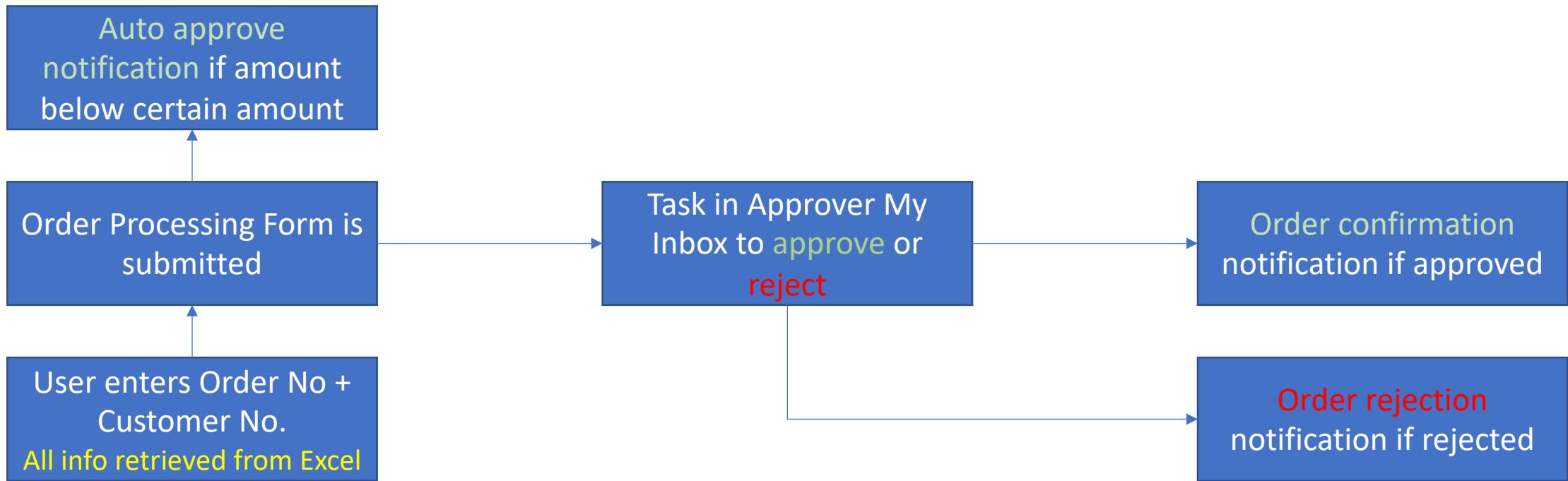
Boosting Business Process with Automation



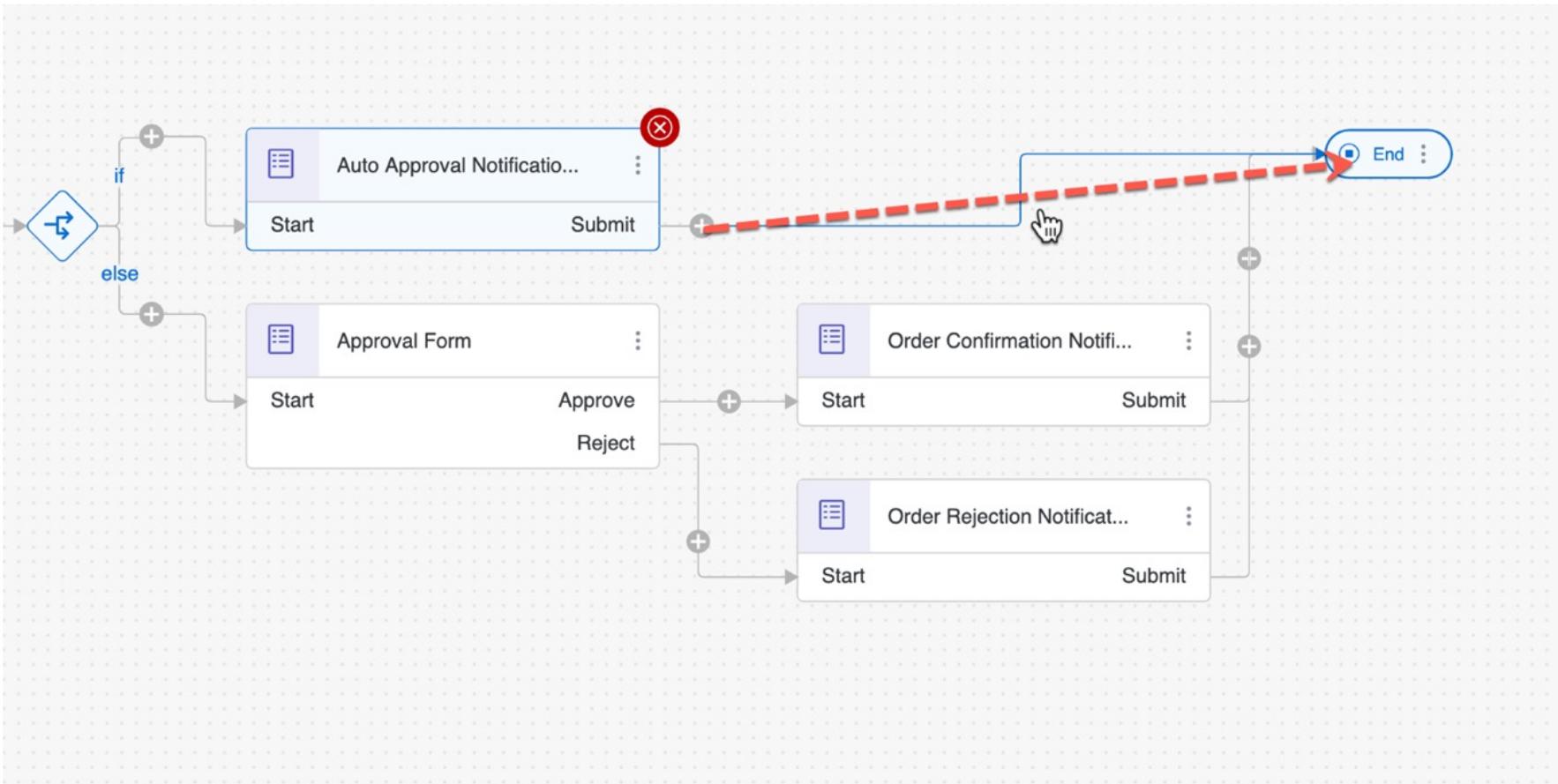
Steps involved

- Add new automation
 - Open Excel instance
 - Read data into a variable: **Orders**
 - Close Excel instance
 - Loop through **Orders**
 - If order number matches, retrieve row values... Exit loop

Controlling the flow



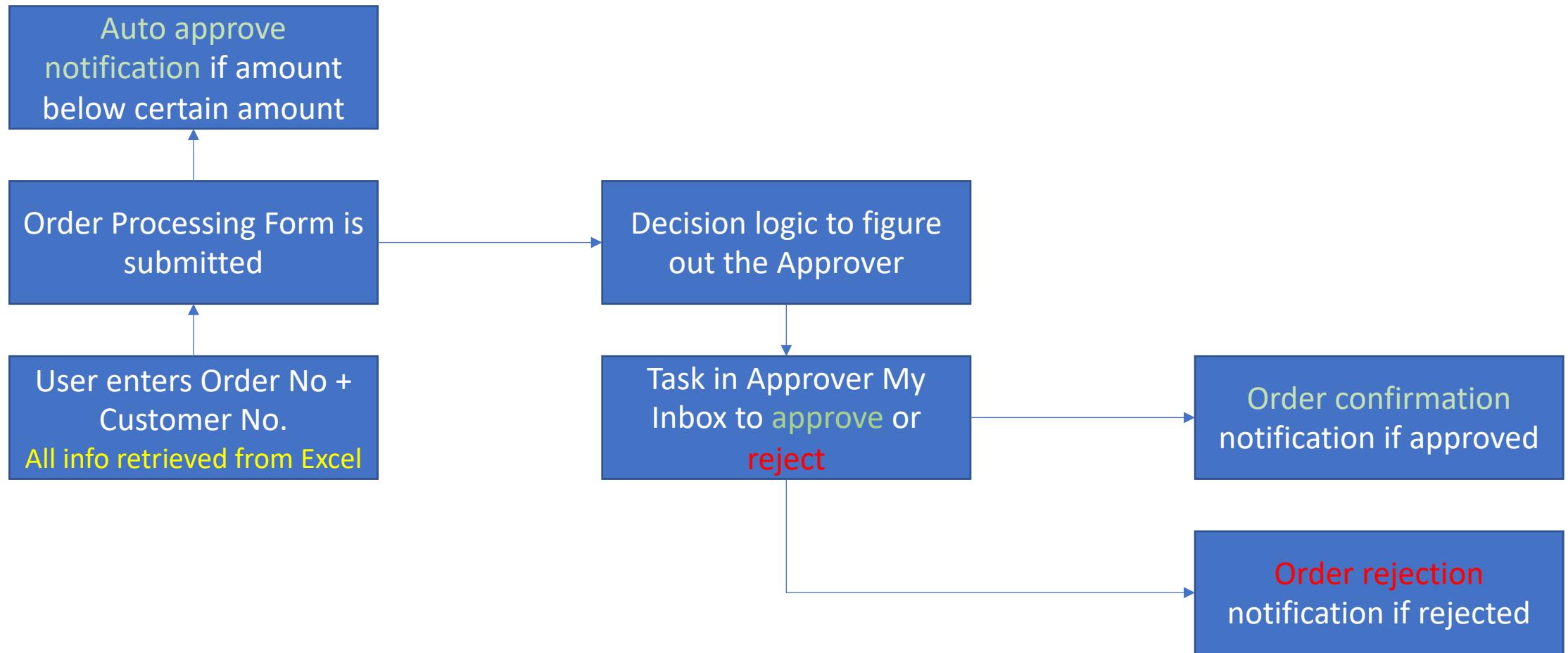
Controlling the flow



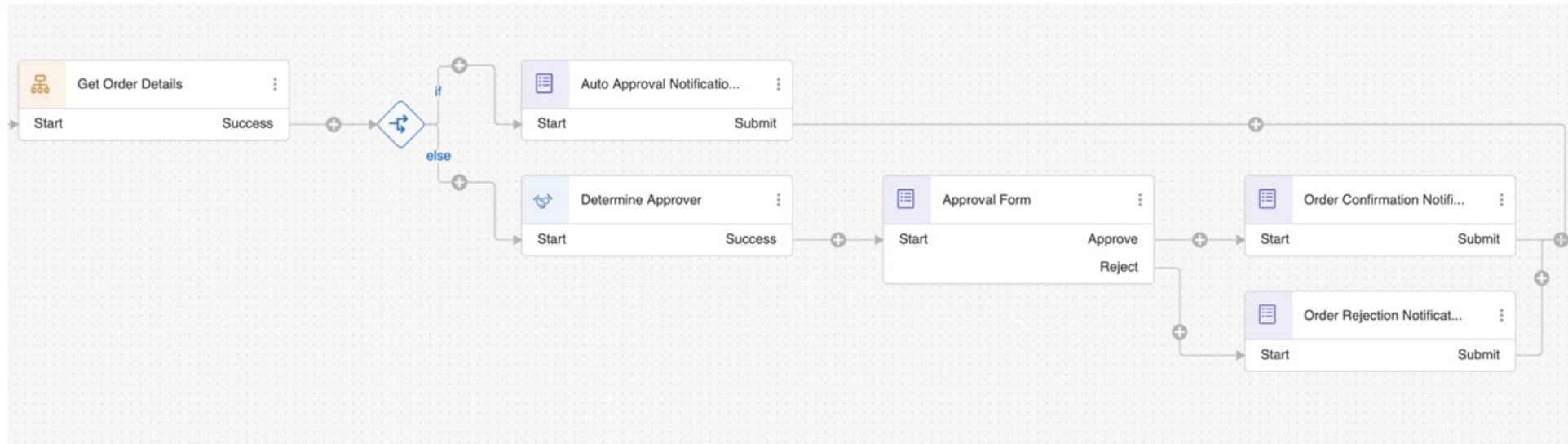
Steps involved

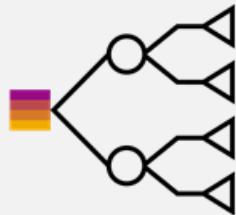
- Add new condition
 - Criteria: Order amount < 100000
 - If **true** – New automatic approval form

Improving the process with decision logic



Improving the process with decision logic





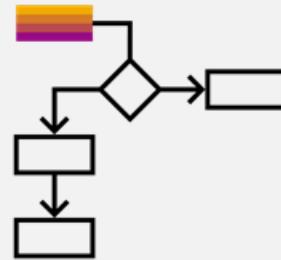
Decision

Capability through which you can model and manage complex business logic in a well-formed structure that is easy to maintain.



Policy/Policies

A decision consists of one or more policies. Each policy consists of a collection of rules.



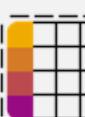
Decision Diagram

a flow chart that describes the execution flow of the decision logic from the input to the output.

Rules



Decision Table Rule



Text Rule

Steps involved

- Add decision to your process
 - Create the rules using decision table
 - Rules will be executed in strict order (order in which they are added to policy)

Shipping Country	Order Amount	User Group	Email
India, Germany	Between 100,000 to 300,000	A	sindy.zhan@sap.com
	Greater than 300,000	B	sindy.zhan@sap.com

Release, Deploy and Run the Business Process

The screenshot illustrates the workflow for releasing, deploying, and running a business process:

- Release Phase:** The top left shows a screenshot of a process configuration screen with a red box around the "Release" button. The top right shows a "Release Project" dialog box. The dialog contains:
 - Version:** Radio buttons for "Contains only patches", "Contains minor changes" (selected), and "Contains significant changes which may impact dependent projects".
 - Version Number:** Input field containing "1.3.0".
 - Version Comment:** Text area containing "added decision to the process and adapted the process".
 - Optimize:** A checkbox labeled "Optimize for faster execution. For more information, click here.".
 - Buttons:** "Release" and "Cancel".
- Deployment Status:** The middle section shows the deployment status of the "Sales Order Management" process. It displays "1.3.0 Released" with a dropdown arrow, all contained within a red box.
- Execution Phase:** The bottom section shows the "Sales Order Management" process in execution. It displays "Order Management" and "Released" (highlighted by a red box). The status bar at the bottom indicates the process was last updated on March 10, 2022, and created on March 9, 2022, by "You".
- Deployment Phase:** The bottom right shows a screenshot of a deployment screen with a red box around the "Deploy" button.

Getting visibility into your process

The image displays two screenshots of the SAP Application Development interface, illustrating the creation and configuration of a visibility scenario.

Screenshot 1: Process Overview

This screenshot shows the SAP Application Development interface with the "Process" tab selected. A red box highlights the "Visibility Scenario" option under the "Form" category. The interface includes a sidebar with navigation links like Automation, Alert, Application, Project Pane, and User Task. The main area shows two entries for Stephan.Schluchter@sap.com, both dated February 4, 2022.

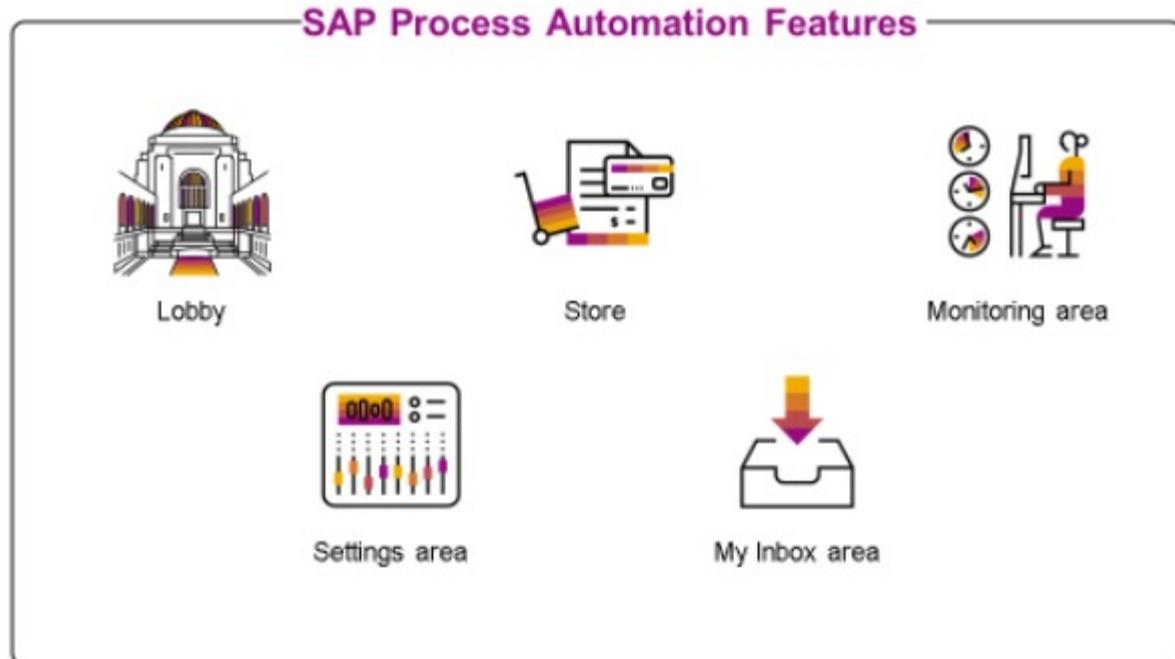
Screenshot 2: Visibility Scenario Configuration

This screenshot shows the configuration of a visibility scenario named "*Sales Order Visibility Sc...". The "Status" tab is selected. A dropdown menu for "Target Type" is open, showing options: None, Constant, and Attribute. The "Constant" option is selected. The "Sub-Status" section lists "Critical" and "On Track" status types. On the right, configuration details are shown: Name: Critical, ID: CRITICAL, and Description: Status of the instance is critical when one of the sub-statuses defined evaluate:

What have we learned so far

- Introduction to SAP Build Process Automation
- Workflows, Forms
- Automation
- Monitoring

Key Summary Points



The screenshot shows the SAP Application Development interface with the following elements:

- SAP Application Development** logo and title.
- Navigation bar with tabs: **Lobby** (underlined), **Store**, **Monitor**, and **Settings**.
- A horizontal row of four orange circles, each containing a number from 1 to 4, corresponding to the points listed below.
- Quick Start** button on the left.
- A vertical scroll bar on the right.
- Two circular icons on the right: one yellow with the number 5 and download arrow, and one blue with the letters HS.
- Hide** button on the far right.

Key Summary Points

Lobby

- Create, manage, deploy business processes

Store

- Browse, add and use pre-packaged projects offered by SAP

Monitor

- View and manage specific processes, automation jobs

Settings

- Configure and manage desktop agents, backend settings, API keys

My Inbox

- Displaying processing your tasks

Key Summary Points

Q2. What do you have to verify before you run a business process that contains one automation or more in it?

- A The Integration of a chatbot with your business process
- B The configuration of an email server
- C The Desktop Agent settings and registration
- D The complete installation of a web server



Correct. You need to verify the Desktop Agent settings and registration, before you run a business process that contains one automation or more in it.

Key Summary Points

Q4. Where can an end user work on forms?

A Process Workspace

 My Inbox

C Monitor Workflow Application

D ChatBot



Correct

Correct. End users can work on forms in My Inbox.

Key Summary Points

Q1. In what ways can forms be used?

A For sending email

 For approving a sales order

 For sending notification to requestor

D For accessing automation

 Correct

Correct. Forms can be used for approving a sales order and for sending notification to requestor.

[Order Processing Form](#)

[Approval Form](#)

[Order Confirmation Notification Form](#)

[Order Rejection Notification Form](#)

Key Summary Points

Q8. What are the benefits of using forms?

 Quick, simple, and easy way to create interactive UI

 B Create documents for process

 One layout, one access and traceable action

 Streamline approvals in the business process

 E Send email templates to users

 Correct

Correct. One benefit of using forms is that it is a quick, simple and easy way to create interactive UI. Other benefits of using forms are that you only have one layout, one access and traceable action, and streamline approvals in the business process.

Key Summary Points

Q5. What do have to do in the Business Process after the design of your automation?



A Add a chatbot into your business process

Verify and map the inputs and outputs of the artifacts including the designed automation

C Check for task in the Inbox

D Develop a custom script in javascript to achieve the integration

Correct

Correct. After the design of your automation, you have to verify and map the inputs and outputs of the artifacts including the designed automation in the Business Process.

Key Summary Points

Q6. Which configurations are necessary for Process Conditions?

 A Add a condition to the process

 B Map the condition input with process content

 C Configure If and else conditions

 D Define the process flow for different conditional paths

 E Add environment variables

 F Correct

Correct. The following configurations are necessary for Process Conditions: Add a condition to the process, Configure If and else conditions and Define the process flow for different conditional paths.

Key Summary Points

Q7. What are different components of **Decisions**?

Input data object

Decision table

C Form

Decision diagram

E Business Logic

Correct

Correct. Input data object, Decision table and Decision diagram are different components of Decisions.

Key Summary Points

Q9. Which steps will you take while designing a decision?

A Create policy, configure rule service, and add rules.

 Create decision, create data object, and configure input & output.

C Integrate decision with process using API.

 Create decision table rules, configure settings, and add rows

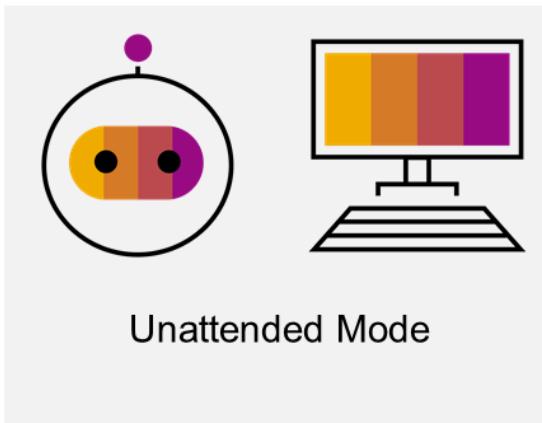
 Correct

Correct. While designing a decision you will take the following steps: Create policy, configure rule service, and add rules, as well as create decision table rules, configure settings, and add rows.

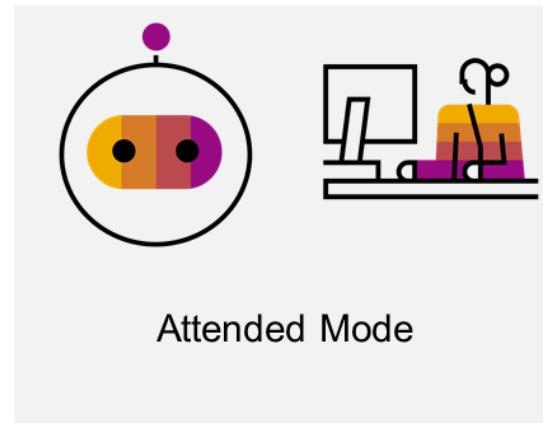
Key Summary Points

SAP Robotic Process Automation services are delivered in 2 ways

- Unattended Mode
- Attended Mode



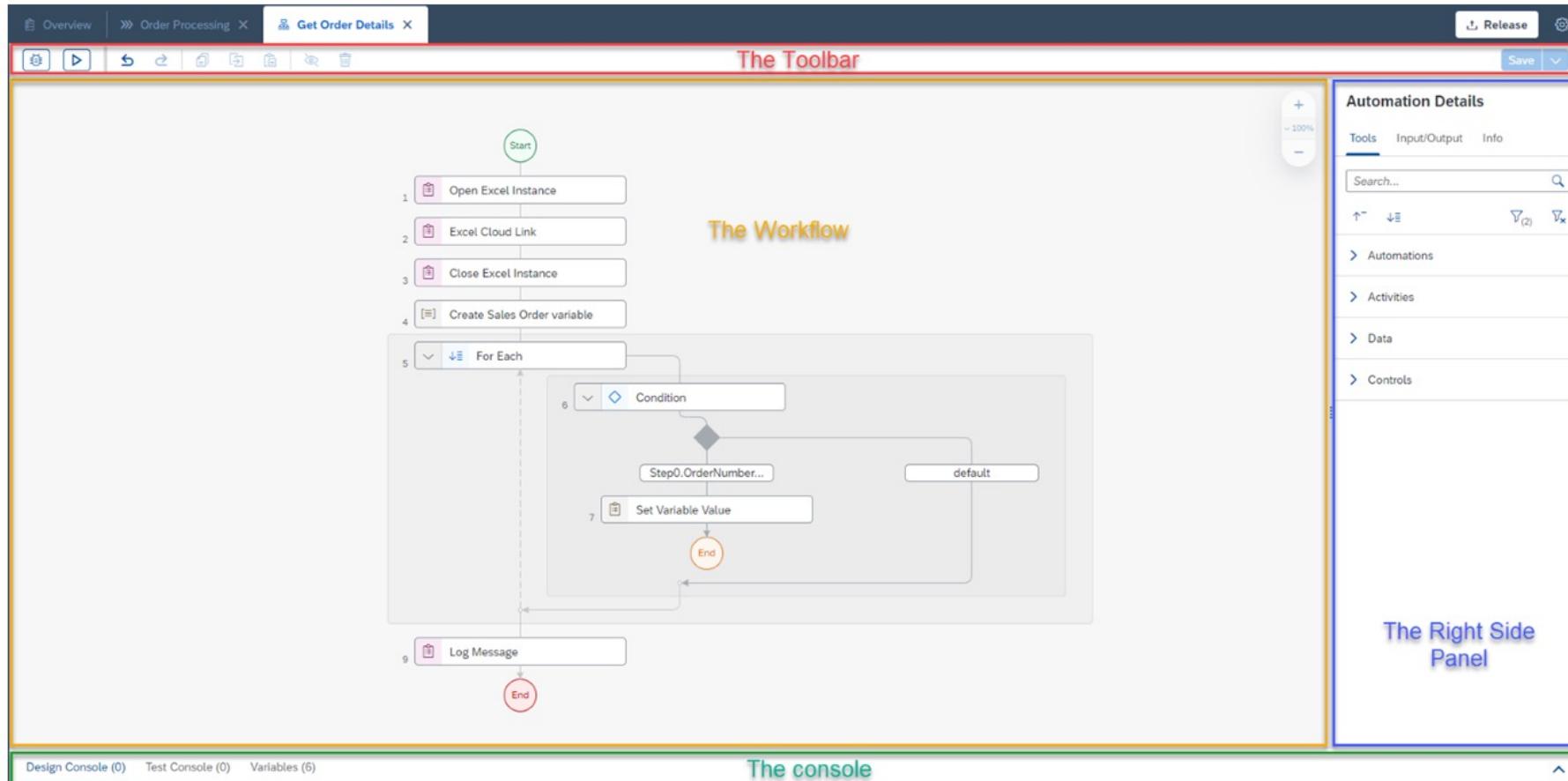
Unattended Mode



Attended Mode

Key Summary Points

Automation Editor



Key Summary Points

The screenshot shows the 'Sales Order Visibility Sce...' scenario in Phase 4. The 'Status' tab is selected. The 'Target' section shows a constant target of 0 days, 0 hours, and 10 minutes. A threshold of 50% is set. Red annotations highlight the target value as 'Critical if process takes more than 10 min' and the threshold as 'At Risk if process takes more than 5 min (50% of 10 min)'. The 'Sub-Status' section lists 'Process Failed', 'Process Suspended', and 'Overdue' under the 'Critical' category. It also includes 'Threshold Violation', 'On Track', 'On Time', and 'Completed with violations' under other categories.

Overview »» Phase 4 Sales Order Visibility Sce... X

General Processes Correlation Phases State Status Attributes Actions Performance Indicators

Target

Target Type: Constant

Target Value: 0 Days 0 Hrs 10 Min

Threshold: 50 %

Critical if process takes more than 10 min

At Risk if process takes more than 5 min (50% of 10 min)

Sub-Status

↑ + -

Critical

- Process Failed
- Process Suspended
- Overdue

At Risk

- Threshold Violation

On Track

- On Time

Completed with violations

Name: Critical
ID: CRITICAL
Description: Status of the instance is critical when one of the sub-statuses defined evaluates to true.

Key Summary Points

Use cases for automation

- Lead-to-cash
- Hire-to-retire
- Design-to-operate
- Source-to-pay

SAP Build Apps



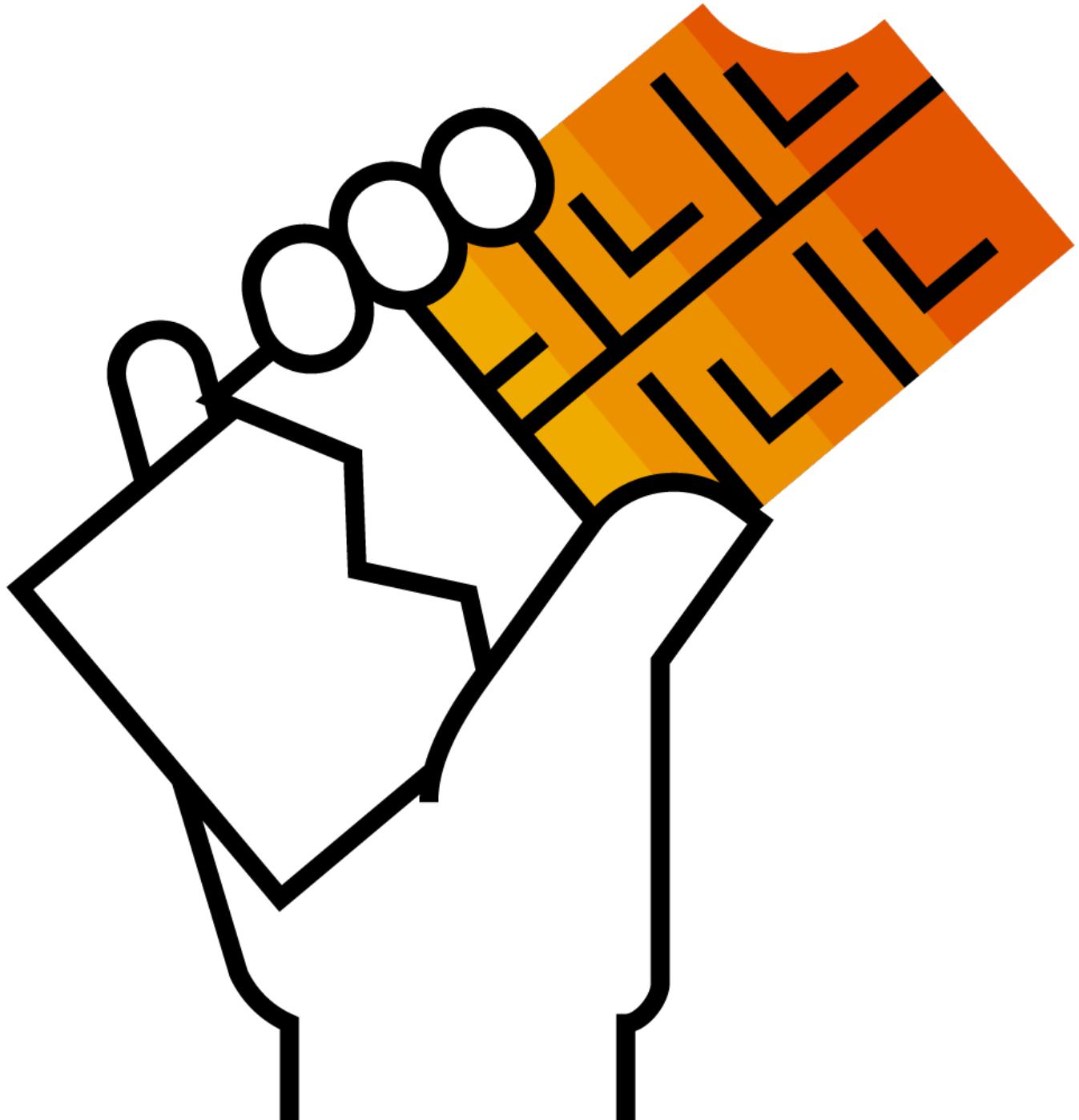
Use Case: Food Barcode Scanner Mobile Application

Scenario

- It will be able to scan a barcode on a food item in your kitchen, and tell you about the nutritional content.
- The information about nutrition is provided by [openFOODfacts](#)

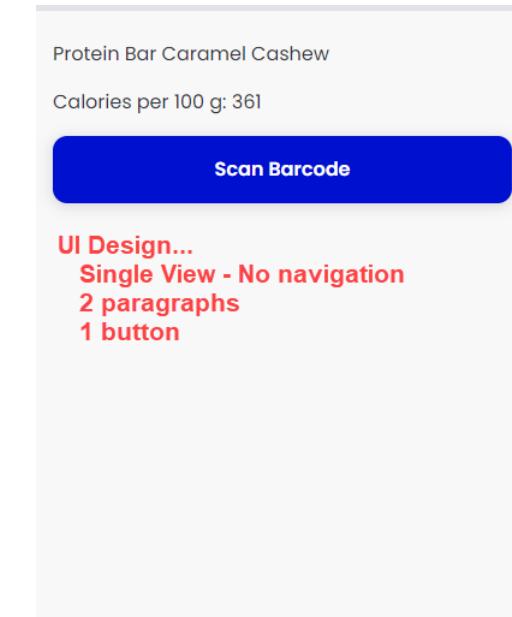
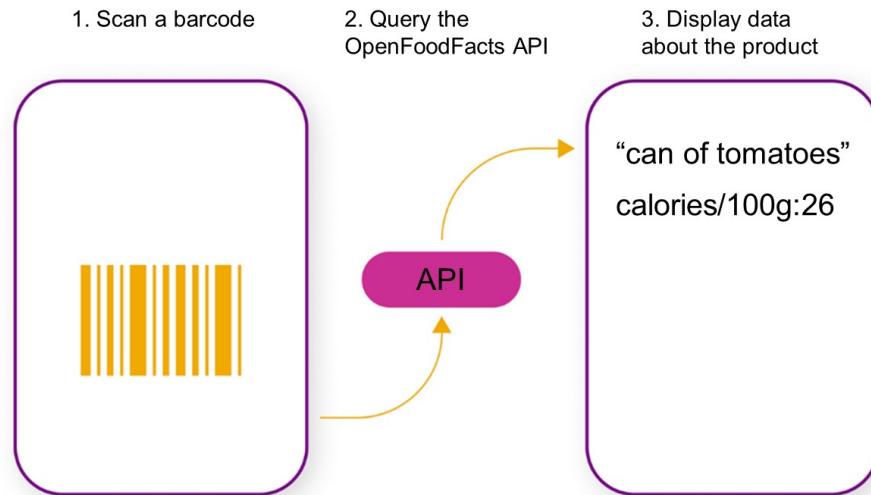
Features

- Cross platform – Mobile (iOS, Android)
- Hardware integration
- Calling External API



High level plan for UI, Logic and Data

- User taps button to scan barcode
- App uses barcode to query OpenFoodFacts API
- App displays 2 pieces of data about scanned product: name, calories



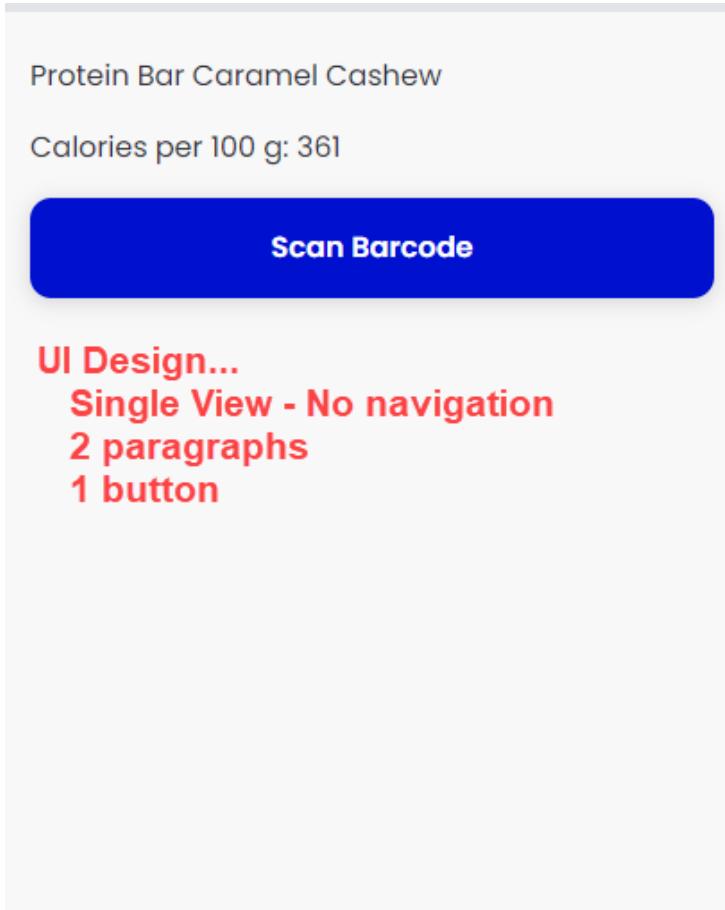
Steps involved

1. Setting up the pre-requisites
2. Setting up the UI – Single View and Components
3. Logic for scanning barcode
4. Integrating with API
5. Displaying Food Product data

Step 1 – Pre-Requisites

1. Subscribe to [SAP AppGyver](#) via a booster from SAP Business Technology Platform
2. Get the [SAP AppGyver Preview](#) app on your mobile phone

Step 2 – View and its components



Step 3 – Logic for scanning barcode



Step 4 – Integrating with an API

Publicly available OpenFoodFacts REST API

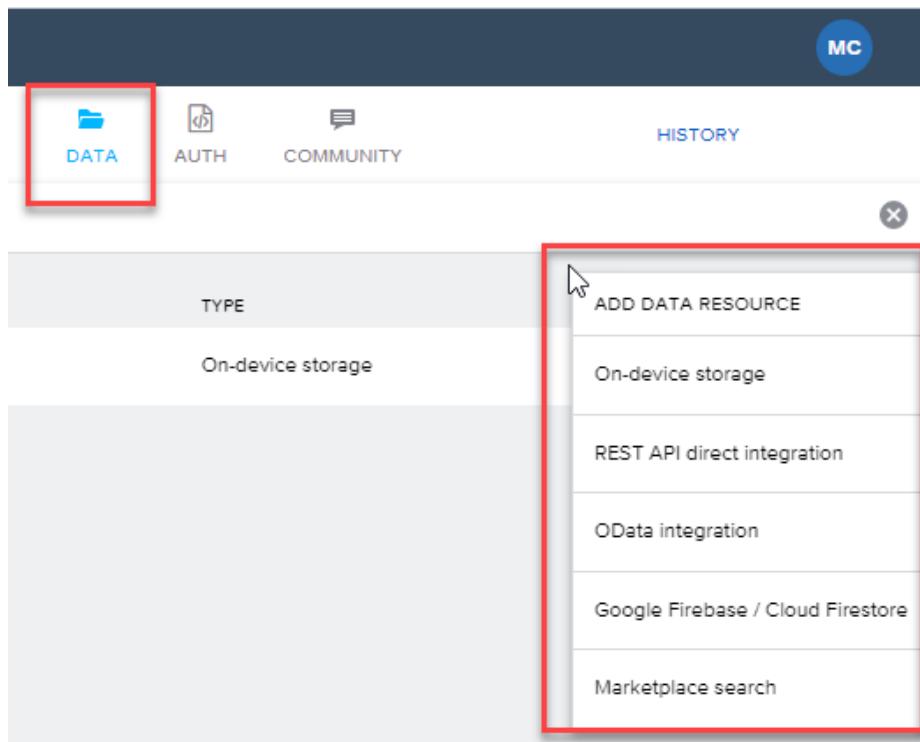
[https://world.openfoodfacts.org/api/v0/product/\[barcode\].json](https://world.openfoodfacts.org/api/v0/product/[barcode].json)

<https://world.openfoodfacts.org/api/v0/product/7350040162910.json>

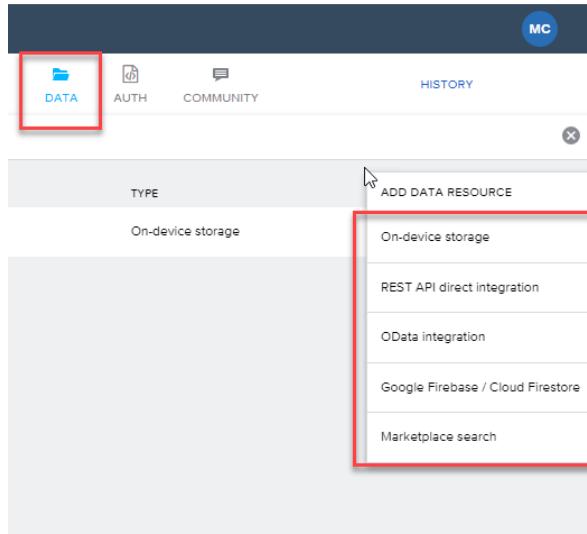
Step 4 – Integrating with an API

Data Resource

- Data that is stored outside the context of the running app
- **Data variable** is used to retrieve data from data resource



Step 4 – Integrating with an API



The screenshot shows the MERN Stack application interface. The top navigation bar includes tabs for DATA, AUTH, COMMUNITY, and HISTORY. The DATA tab is highlighted with a red box. Below the navigation, there's a section titled 'ADD DATA RESOURCE' with a dropdown menu. The 'On-device storage' option is selected. The dropdown menu contains five items: 'On-device storage', 'REST API direct integration', 'OData integration', 'Google Firebase / Cloud Firestore', and 'Marketplace search'. The 'REST API direct integration' option is also highlighted with a red box.

REST API direct integration resource **openfoodfacts**

Resource ID openfoodfacts

Short description data from openfoodfacts api

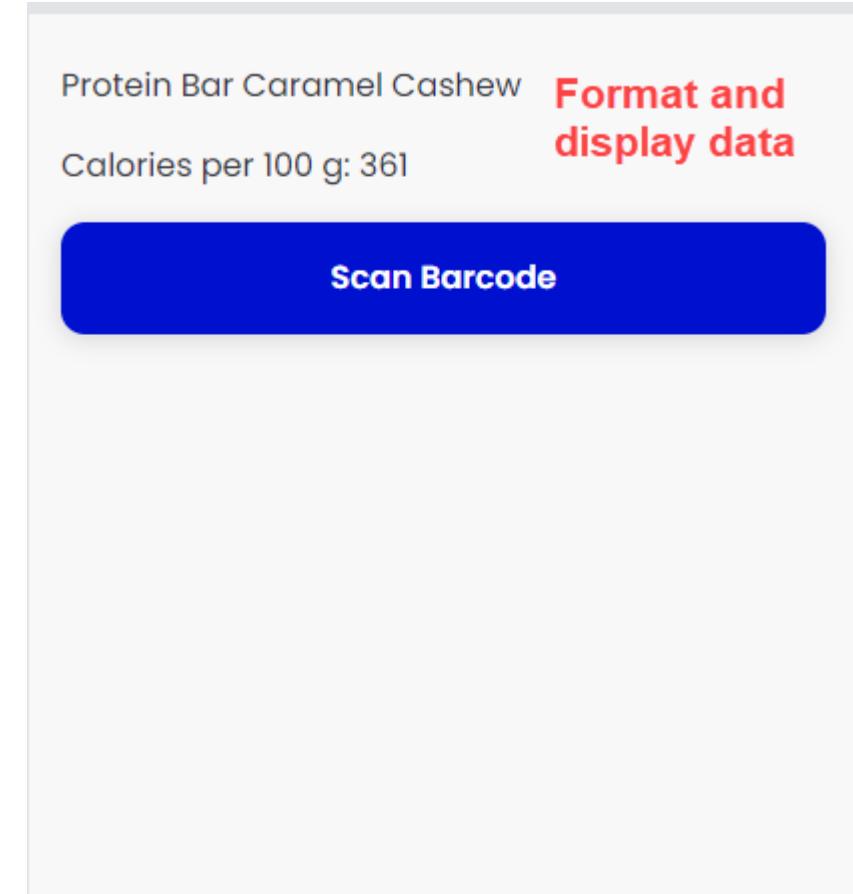
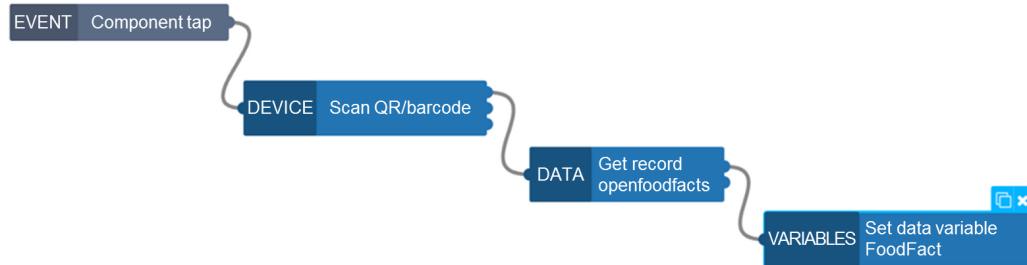
Resource URL <https://world.openfoodfacts.org/api/v0>

HTTP Header No HTTP Header added.

URL placeholder No URL placeholder added.

Query parameter No Query parameter added.

Step 5 – Displaying Food Product data



Use Case: Appointment List App



Scenario

- an extension to SAP Sales Cloud with a list of appointments that we want to extract and create an app to display them as a viewable list.

Features

- Cross platform – Mobile (iOS, Android)
- OData API Integration – SAP Sales Cloud
- Composite Component
- More complex binding



SAP Sales Cloud

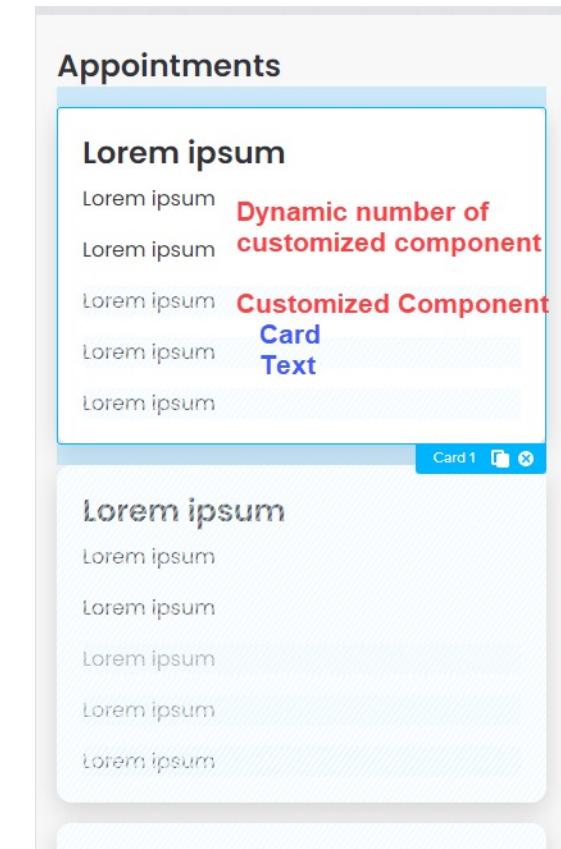
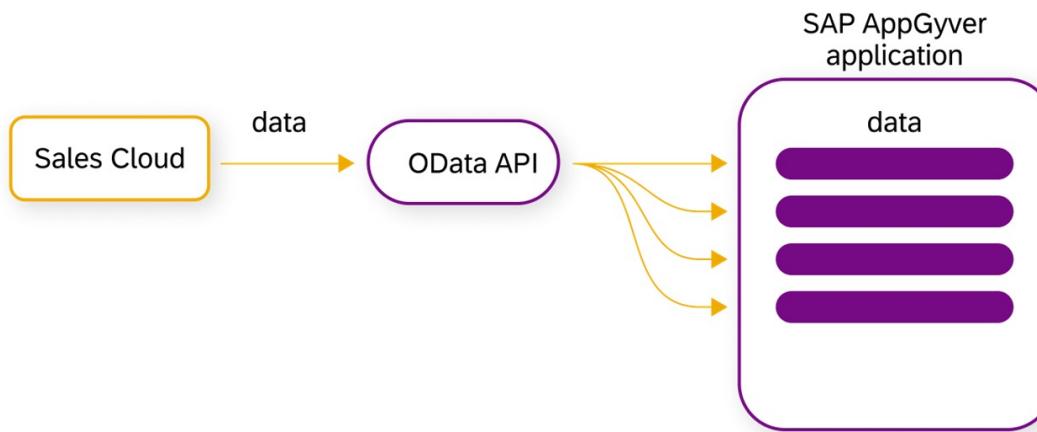
SAP Sales Cloud is a cloud customer relationship management (CRM) solution that assists the daily activities of a salesperson. This includes communicating and collaborating with customers, supporting the lead-to-cash process and providing complete transparency on the current business.

Why SAP Extensions with SAP AppGyver ?

- SaaS solutions from SAP cover a majority of customer use cases
- However, every customer has unique needs that cannot be covered out-of-the-box
- Various options to extend SAP solutions (In-App, Side-by-Side)

High level plan for UI, Logic and Data

- Build application to display appointments
- Make connection to SAP Sales Cloud OData API
- Display appointments data



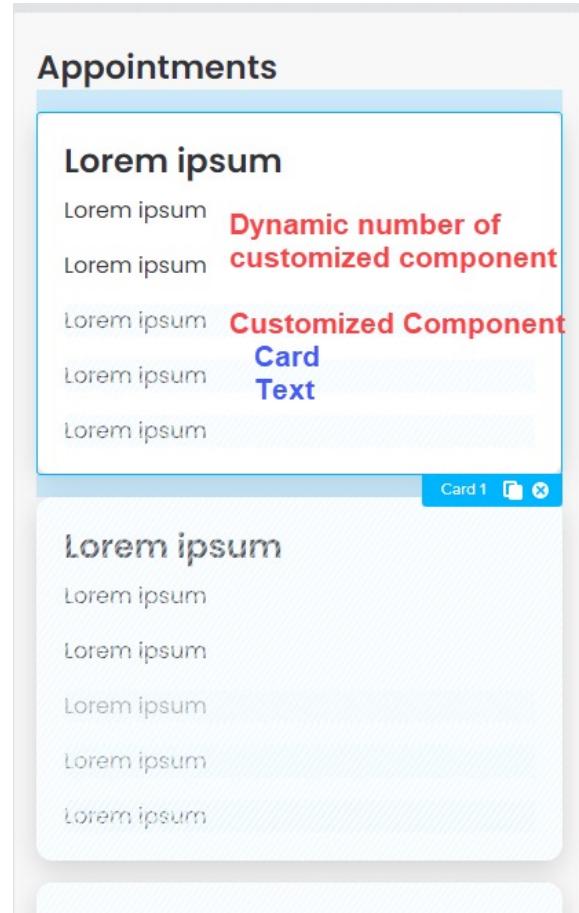
Steps involved

1. Setting up the pre-requisites
2. Setting up the UI – Single View and Components
3. Connections to OData API
4. Binding, displaying data in UI

Step 1 – Pre-Requisites

1. Subscribe to [SAP AppGyver](#) via a booster from SAP Business Technology Platform
2. Get the [SAP AppGyver Preview](#) app on your mobile phone

Step 2 – View and its components



Step 3 – Connections to OData API

The screenshot illustrates the process of connecting a data source in the MERN Stack Manager. It consists of three main panels:

- Left Panel:** Shows the navigation bar with 'DATA' selected (highlighted by a red box). Below it, the 'ADD DATA RESOURCE' section lists several options: 'On-device storage', 'On-device storage' (selected and highlighted by a red box), 'REST API direct integration', 'OData integration' (selected and highlighted by a red box), 'Google Firebase / Cloud Firestore', and 'Marketplace search'.
 - Center Panel:** Displays the configuration for the 'AppointmentCollection' data resource. It includes:
 - A toggle switch at the top right (highlighted by a red circle).
 - A list of operations: 'list', 'retrieve', 'create', 'update', and 'delete'.
 - An 'Expand' section listing related entities: 'AppointmentAttachmentFolder', 'AppointmentBTDReference', 'AppointmentInvolvedParties', 'AppointmentOtherParties', and 'AppointmentTextCollection'.
 - Right Panel:** Shows the 'DATA' tab selected in the navigation bar. A table lists data resources, with 'AppointmentCollection' selected (highlighted by a red circle) and its type identified as 'OData Integration'. At the bottom right of this panel is a large red oval highlighting the 'SAVE DATA RESOURCE' button.

Step 3 – Connections to OData API

[https://my346234.crm.on-demand.com/sap/c4c/odata/v1/c4codataapi
\\$/metadata](https://my346234.crm.on-demand.com/sap/c4c/odata/v1/c4codataapi/$metadata)

Credentials

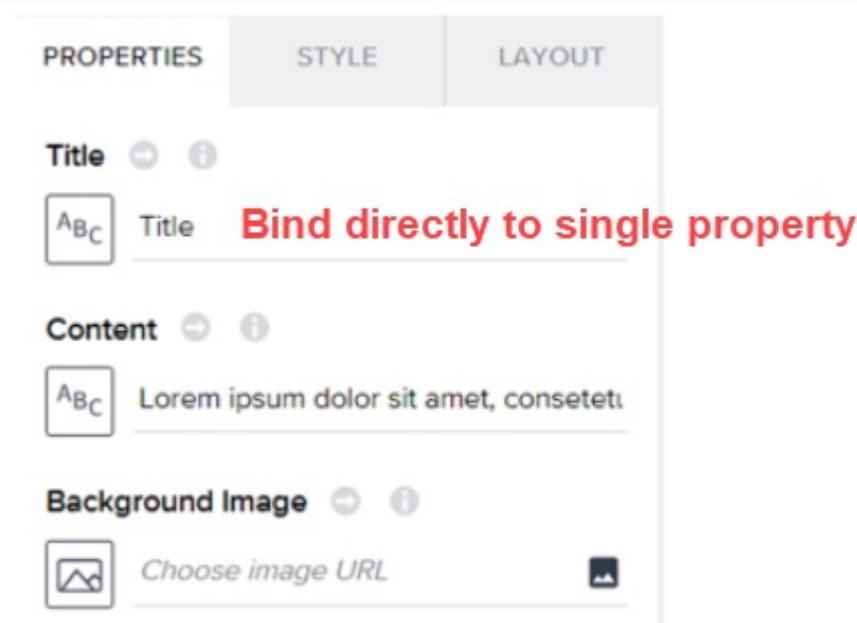
[demouser / Welcome1](#)

[API Business Hub \(api.sap.com\)](#)

[API Key](#)

Step 4 – Binding, displaying data in UI

```
{  
  "name": "Milton"  
}
```



The screenshot shows the AEM富文本编辑器的“Properties” tab. It displays three properties: “Title”, “Content”, and “Background Image”. The “Title” property has a value of “Bind directly to single property”. The “Content” property has a value of “Lorem ipsum dolor sit amet, consetetu...”. The “Background Image” property has a placeholder “Choose image URL”.

PROPERTIES STYLE LAYOUT

Title ABC Title **Bind directly to single property**

Content ABC Lorem ipsum dolor sit amet, consetetu...

Background Image Choose image URL

Step 4 – Binding, displaying data in UI

```
[  
 {  
   "name": "Milton"  
 },  
 {  
   "name": "Peter"  
 },  
 {  
   "name": "Pavel"  
 },  
 {  
   "name": "Jose"  
 }]
```

The screenshot shows a UI builder interface with a properties panel for a repeat item. The 'Repeat with' dropdown is highlighted with a red circle. To the right, three annotations provide additional context:

- Bind to Repeat With property**
- Dynamic number of controls automatically created**
- Not repeated**

Step 4 – Binding, displaying data in UI

```
[  
  {  
    "name": "Milton",  
    "hobbies": ["tennis", "chess", "soccer"]  
  },  
  {  
    "name": "Peter",  
    "hobbies": ["hiking", "cooking"]  
  },  
  {  
    "name": "Pavel",  
    "hobbies": ["tennis", "rugby"]  
  },  
  {  
    "name": "Jose",  
    "hobbies": ["soccer", "athletics"]  
  }  
]
```

The screenshot shows a UI builder interface with a list item template. The template contains three fields: **Title** (with placeholder ABC and value Title), **Content** (with placeholder ABC and value Lorem ipsum dolor sit amet, consetetu...), and **Background Image** (with a choose image URL button). Below these fields is a **Repeat with** dropdown menu. A red circle highlights the dropdown icon, and the text "Bind to Repeat With property (2 levels)" is displayed next to it. The dropdown menu itself shows the option "Not repeated". To the right of the dropdown, the text "Dynamic number of controls automatically created" is displayed, along with a blue double-headed arrow icon.

PROPERTIES STYLE LAYOUT

Title ABC Title

Content ABC Lorem ipsum dolor sit amet, consetetu...

Background Image Choose image URL

Repeat with Not repeated

Bind to Repeat With property (2 levels)

Dynamic number of controls automatically created

What have we learned so far

- Introduction to SAP Build Apps
- First mini application with SAP Build Apps
- High level plan
- Building the UI
- Building the logic
- Binding variables to component
- Integrating hardware
- Calling an API
- SAP Sales Cloud
- OData API Integration
- Composite Components
- Multi-level binding

Key Summary Points

Pre-requisites

1. Subscribe to [SAP Build Apps](#) via a booster from SAP Business Technology Platform
2. Get the [SAP Build Apps Preview](#) app on your mobile phone

Key Summary Points

Q8. What are "views" based on, in terms of how they are defined for the user interface of an application?



A The data sources for variables.

B The flows of logic that need to be performed.

 Clear functional distinction, meaning activities that are grouped together.

 Correct

Correct. The "views" based on: Clear functional distinction, meaning activities that are grouped together

Key Summary Points

Q9. What are the three main areas of application development?



A Styling



Data



Logic



User Interface



Correct

Correct. The three main areas of application development are User Interface, Logic and Data

Key Summary Points

Q10. What are some of the things you did when building your first mini-application in SAP AppGyver?



Set up the variables

Binding variables to components

C Implemented authorization capabilities

Created the database

Correct

Correct. Here's what you did when you created the first mini-application in SAP AppGyver: Set up the variables, binding variables to components and created the database

Key Summary Points

Binding

- Link between variable and component (UI elements)

Static Binding (Property bound to static string)

Hello world

Dynamic Binding (Property bound to variable greeting)

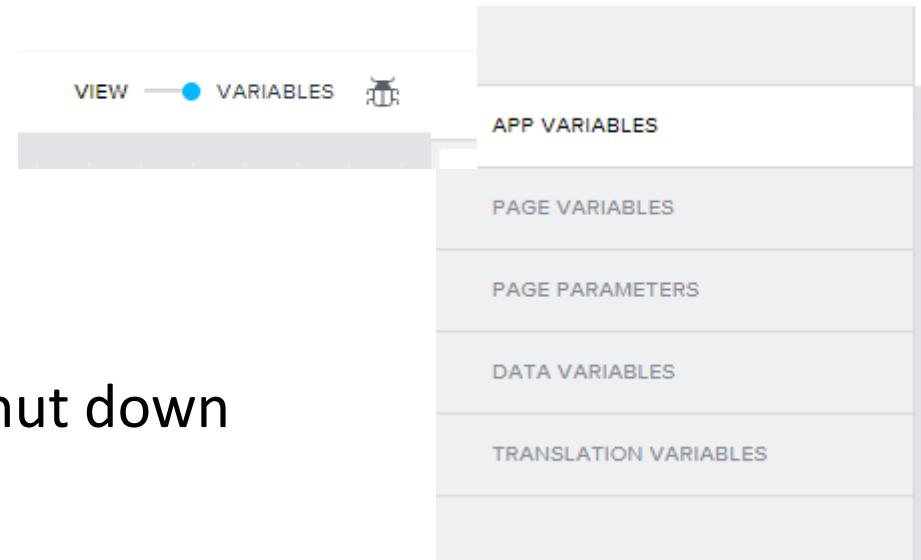
variable greeting = “Good morning !!”

Good morning !!

Key Summary Points

Variables

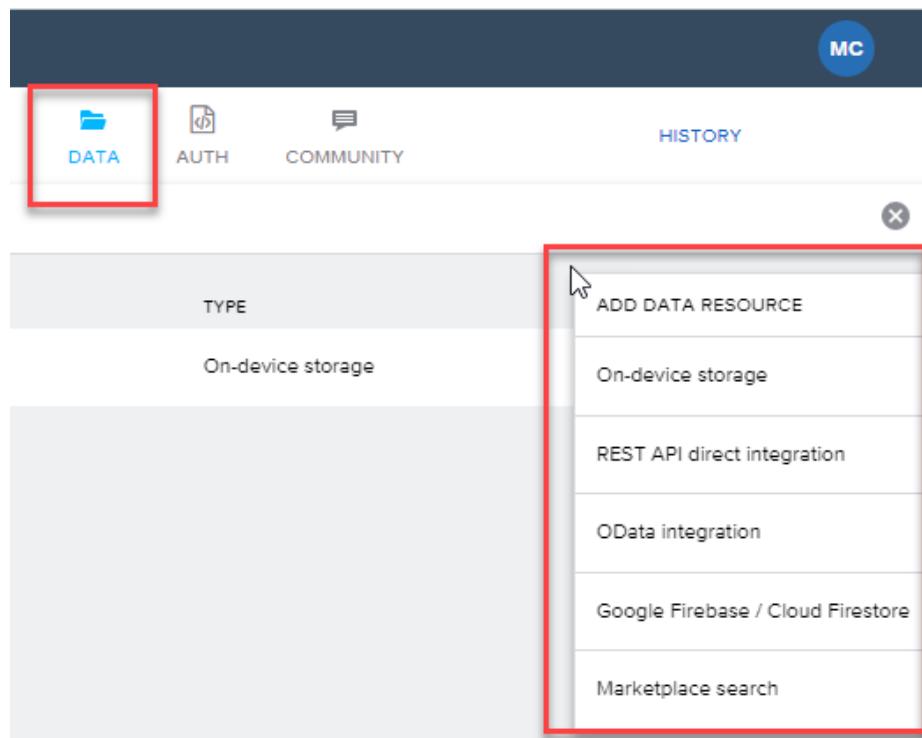
- App Variables
 - Exist globally
 - Initialized when app opens, exists until app is shut down
- Page Variables
 - Exists in the context of current page
 - Initialized when page opens, exists until page is closed
- Data Variables
 - Like page variables, used to read data from [data resources](#)



Key Summary Points

Data Resource

- Data that is stored outside the context of the running app
- Data variable is used to retrieve data from data resource



Key Summary Points

Q2. What is application logic?



- A Data and metrics integrated to enable performance.
- B The planning process to develop an application cross-functionally.
- A flow of events, actions and functions that are driven by variables in data and connected to the UI with bindings.



Correct

Correct. The application logic is: A flow of events, actions and functions that are driven by variables in data and connected to the UI with bindings.

Key Summary Points

Question 1

Choose the correct answer.

What was the first real step you took in building your app with SAP AppGyver?

- Making a connection to OpenFoodFacts database.
- Making a high level plan that covered the user interface, logic and data.
- Mocking up the design and journey for the user experience.

Key Summary Points

Question 2

Choose the correct answer(s).

What are the steps in the workflow that you planned for your SAP AppGyver app?

- The user taps a button to scan a barcode.
- The app uses the barcode to query the OpenFoodFacts API.
- The app asks the user to provide their email address for authorization
- The app displays two pieces of data about the scanned product: food name and calories

Key Summary Points

Question 3

Choose the correct answer(s).

What is true about the SAP AppGyver Preview app?

- You can find the Preview app in all common app stores.
- The Preview app download is free.
- It's good to use the Preview app to see your changes in real-time.
- The preview app can be used with any no-code application development platform in the market.

Key Summary Points

Question 6

Choose the correct answer.



What is a binding for?

- Connecting to an API.
- Creating a link between a data variable and a UI component.
- Building the overall workflow.

Key Summary Points

Question 7

Choose the correct answer(s).

What are the parts you examined in the URL for the OpenFoodFacts API?

- The version of the API.
- The barcode number sequence for the product.
- The JSON data format.
- The analytics tracking code

Key Summary Points

Question 8

Choose the correct answer(s).

How did you create a data resource to be used in your SAP AppGyver app?

- Opened the data tab from the top menu and selected “add data resource”.
- Selected “REST API direction integration” from the options.
- Entered the Resource ID for OpenFoodFacts.
- Used the entire URL provided by OpenFoodFacts.

Key Summary Points

Question 9

Choose the correct answer.

How can you reset the SAP AppGyver variable data logic in your logic canvas back to the default logic?

- Start over with building a new app.
- Clear the logic canvas and add a new logic flow.
- Select “reset data variable logic”.
- It's not possible – that's why detailed planning must be done in advance.

Data: notes

```
graph LR; A[EVENT Page mounted] --> B[DATA Get record collection]; B --> C[VARIABLES Set data variable]; D[EVENT Page focused] --> E[UTILITY Delay]; E --> C;
```

FROM Data resource notes/0

Data variable name
notes

Data variable type ⓘ
 Collection of data records
 Single data record
 New data record

Filter condition ⓘ
 No value

Ordering ⓘ
 No value

Paging ⓘ
 No value

RESET DATA VARIABLE LOGIC
Resets the logic canvas for this data variable to its default behaviour.

[REMOVE FROM PAGE](#)

Key Summary Points

Question 10

Choose the correct answer.

How did you edit the formulas to change the display of calorie data in the UI?

- Select the paragraph with “calories”, open the binding editor, choose the formula and edit.
- You need to be able to write in a programming language to do this.
- Added a new composable component with information on grams.

Key Summary Points

Q10. What can SAP Sales Cloud assist with?

communicating and collaborating with customers

supporting in the lead-to-cash process

C creating applications

giving complete transparency where you stand with current sales business

E managing your employees

Correct

Correct. SAP Cloud can assist you with giving complete transparency where you stand with current sales business, supporting in the lead-to-cash process and, communicating and collaborating with customers.

Key Summary Points

Q9. How did we open the Component Template Editor?

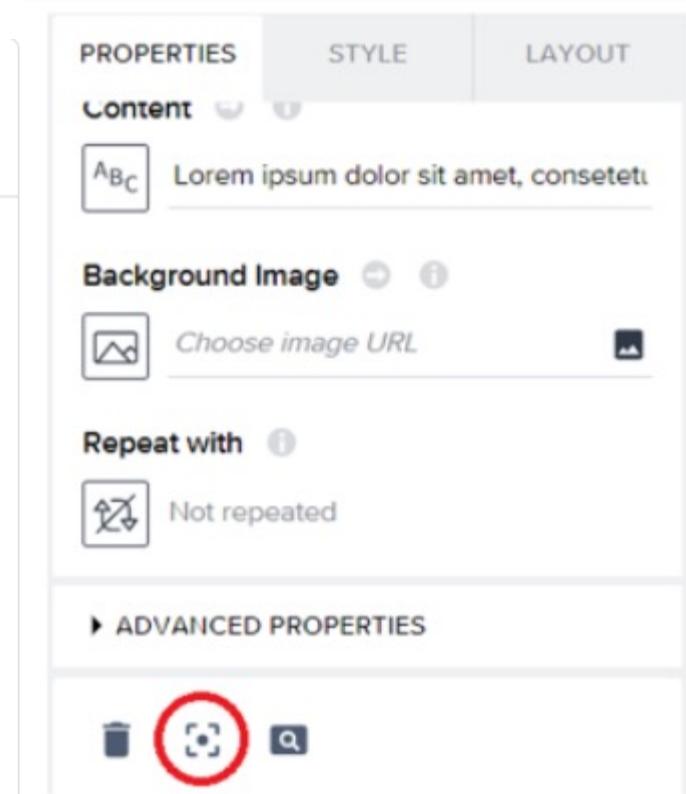
A Dragging card components into the canvas

 Clicking on the Component then Scrolling down and clicking on the square with the dot in the middle

C Double clicking on the outside of the canvas

 Correct

Correct. We open the Component Template Editor by clicking on the Component then Scrolling down and clicking on the square with the dot in the middle.



Key Summary Points

Select binding_type / Object with properties

Select the conditions for the request.

Property	Condition type	Compared value	X
CategoryText	ABC equal	ABC Marketing	X
ADD CONDITION			
SAVE			

Key Summary Points

Q7. What is the use for APIs?

A

connect with colleagues



perform some action on the system

C

create applications



get data from the system



communicate with a system



Correct

Correct. The use of APIs are to communicate with a system, get data from the system and perform some action on the system.

Key Summary Points

Q2. What do we see when we open the URL in the browser?

A The data stored on your PC

B The SAP AppGyver internal data

 The XML metadata of the OData service

 Correct

Correct. When we open the URL in the browser, we can see the XML metadata of the OData service.

Key Summary Points

```
[  
  {  
    "name": "Milton"  
  },  
  {  
    "name": "Peter"  
  },  
  {  
    "name": "Pavel"  
  },  
  {  
    "name": "Jose"  
  }]
```

Q5. How can we know that the data is a list of objects?

A

We can open it in Google



First wrapped in brackets [] and then in curly brackets {}

C

Since it's the XML metadata of the OData service



Correct

Correct. We know that it is a list of objects, if the data is first wrapped in brackets [] and then in curly brackets {}.

SAP Build Work Zone



Digital Experience (DX) Services at SAP



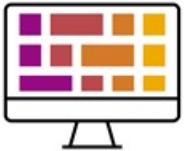
SAP Build Work Zone,
standard edition



SAP Build Work Zone,
advanced edition

- Guided experiences, web content, document access, knowledge base and workspaces for collaborative knowledge sharing
- Empowering customers to build user-centric, modern digital experiences

- Integrate Applications, tasks, and processes into a central access point
- Common UX integration for SAP solutions (for example, SAP S/4HANA), custom apps and extensions following the SAP Fiori UX



SAP Launchpad Service

The screenshot shows the SAP Fiori Home page for Procurement. The top navigation bar includes links for Home Page, Central Procurement, Operational Purchasing, and Purchasing Analytics and Supplier Evaluation. On the left, there's an 'Overview' section and a 'Quick Access' sidebar with a 'Procurement Overview' card. A context menu is open over the 'Overview' button, listing options like Overview, Purchasing, Sourcing and Contract Management, and Purchasing Rebates. Below this are several functional tiles: Purchase on Items, Manage Purchase Orders, Monitor Purchase Order Items (showing 593 Overdue), Manage checkbooks SAPUI5, Innovation at SAP SAP.io program, Manage Service Entry Sheets Lean Services, Manage SA Delivery Schedule, Monitor Supplier Confirmations (24 pending), My Purchasing Document Items Professional, Search POs, Manage Central Supplier Quotations, Monitor Purchase Order Items Centrally, and Manage Purchase Contracts. The main area features a 'Generic Insights' section with five cards: Purchase Requisition To Order Cycle Time (Release Strategy, 1.48 days, 30 min ago), Invoice Price Variance (Since the beginning ..., 80.27%, 30 min ago USD), Purchasing Spend Comparison of Spend (100%, 16 hr ago), Operational Supplier Evaluation Score and Variance (Domestic US Subs 144.3, EV Parts Inc. 142.1, WaveCrest Labs 142.1, 30 min ago), and Overdue Purchase Order Items (Number and Value, 40 items, 30 min ago). At the bottom, there are two more cards: Monitor Procurement-Related Tasks Procurement and Supplier Evaluation Weighting and Scoring.

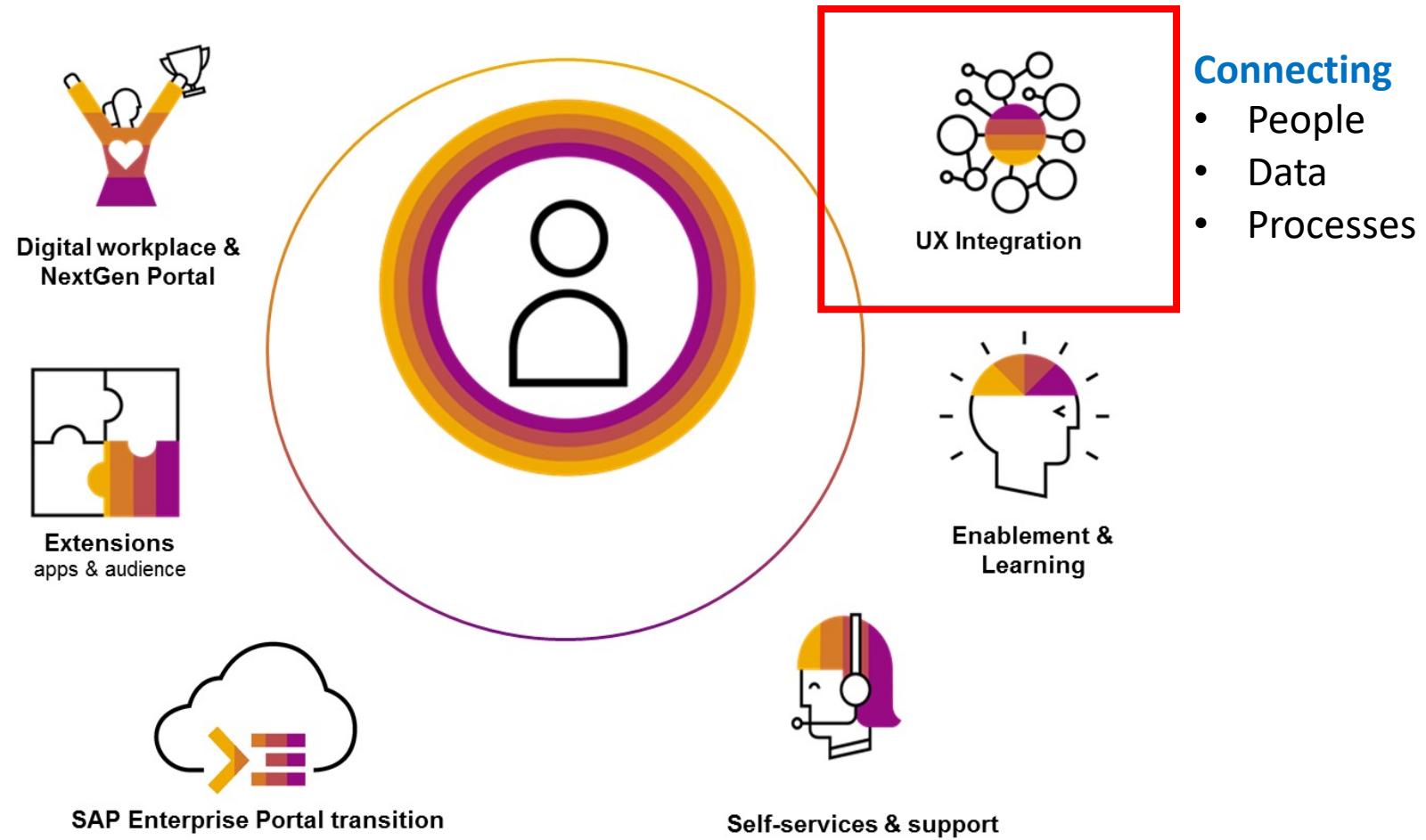


SAP Work Zone

The SAP Home - Welcome interface displays several modules:

- Company Blog Posts**: Shows a post from the CEO about solar power.
- Microlearning**: Shows a video titled "The future of solar power".
- Most Liked**: Shows top posts like "Employer Compensation" and "Wind Energy Facts.pptx".
- How is your overall experience?**: A survey with options: Good, Average (selected), and Bad.
- Highest ranked Knowledge Article**: Lists articles on solar power and energy efficiency.
- Quick Links**: Buttons for Display Supplier List, Assets App, Create Material WebGUI, Purchase Order Web Dynpro, Quality Technician Overview, and Report Incident.
- Apply for Parental Leave**: A form to sign up for parental leave, including a date input field (2020-12-12) and checkboxes for terms and conditions.
- Project Summary - General Expenses**: A bar chart showing expenses for Q1-Q4.

Typical use cases for SAP Build Work Zone



UX Integration across ERP systems



App launcher
(link, tile, card)



Open app
in new tab, in-place



**Navigation &
URL parameters**



Language



**Theme &
branding**



**Single sign-on &
session management**



**Roles &
authorizations**



Content structure
(incl. roles and
apps)

Key building blocks of SAP Build Work Zone

- Administrative Areas
 - Enables role based access and business focused decentral ways of working
 - By default, all settings, content, design get created at the “company level”
- Homepages
 - Design entry page experience for all users – Can be different for various roles
- Workspaces
 - Web content presentation – core element of user interaction
 - **Most important building block of SAP Build Work Zone**
- Applications Launchpad
 - Built-in launchpad capabilities

Workspaces



**My
Workspace**

Personal workspace that only you can see and access, you cannot invite others to it.



**Public
Workspaces**

Workspaces that every full-access user in the company can view and join.



**Private
Workspaces**

Workspaces that you can only join and view if you have been invited to them.



**External
Workspaces**

Workspaces in which you can work together with people from different companies who join the workspaces as external users.

ONE-STOP-SHOP EXPERIENCES & USER ENGAGEMENT

	Launchpad	Homepages	Administrative Areas	Workspaces
 Features	<ul style="list-style-type: none"> Integrate apps deployed on SAP S/4HANA on premise, SAP BTP Cloud Foundry or ABAP environment. Expose content of various content providers: SAP S/4HANA on premise, SAP Enterprise Portal or SAP BTP on Cloud Foundry. Enables individual application and application group widgets to be used across homepages and workspaces. 	<ul style="list-style-type: none"> Inform users of company-wide information, announcements, and much more. Out-of-the-box cards and widgets for homepages Flexible design and integration options with a combination of content widgets, UI cards, guided experiences and business applications. 	<ul style="list-style-type: none"> Central role object to bundle different product capabilities such as homepages, templates, integration setups and more, e.g. per company division or region. Dedicated content section for area homepages. Area membership assignment based on memberlists 	<ul style="list-style-type: none"> Creation of public, private and external workspaces based on the target audience. Out-of-the-box cards and widgets for workspace overview pages. Structured collaboration and knowledge management capabilities with e.g. forum and knowledge base. Include external stakeholders with restricted view into dedicated workspaces.
 Strengths	<ul style="list-style-type: none"> Identity propagation eliminates a need to setup additional security roles for SAP business apps. Flexible, manual integration and content federation to re-use existing applications. 	<ul style="list-style-type: none"> Embedded visual page editor enables end-users to design pages without IT overhead Multi-level navigation using subtabs for homepages. 	<ul style="list-style-type: none"> Enables decentralized (content) administration Users gain access to a combination of features based on their individual admin area memberships. 	<ul style="list-style-type: none"> Out-of-the-box and custom workspace templates ease the creation and ensure consistency across the entire company. Enables decentralized (content) administration Workspace administrators can flexibly adjust workspace features based on desired use case.

Application Focus

User Engagement and Interaction

Page Builder Experience

STANDARD TOOLS		FILTER AND LISTS		PRODUCTIVITY	
Fiori Application Add an Application that is assigned to you	Fiori Application Group Add a group of applications that is assigned to you	Search Provide a search box for finding content	Workspaces Link to other workspaces and sub-workspaces	Feed Show activities of followed workspaces and people	
Multimedia Link to new or existing audio visual media or playlists	Image Insert, resize, and crop an image	People Select and feature specific members	Tag Cloud Show the most popular hashtags in a tag cloud	Action Show a set of frequently used actions	
Text Create and format text with a rich text editor	Poll Show a poll, allow votes, and display poll results	Content Show content filtered by most replies, views, likes, and more	Event Show upcoming or recent events	Notification Show summary of all notifications	
Slideshow Select a presentation (.pdf, .ppt, or .pptx files)	Name Show avatar and name of the logged in user	Forum Show questions, ideas, and discussions	Knowledge Base Show featured, most viewed, or most liked articles	Recommendation Show a list of recommended content, people and workspaces	
Rotating Banner Show a carousel with up to 10 slides of headlines or news	External Content Show featured, most viewed or like external content	Tool Content Show pro/con and comparison table, agenda, or extensions	Business Record Show business records	Recent Items Show a list of recently viewed content and workspaces	



UI
Integration
Cards

developed
by you,
partners
or SAP

Extensibility Overview



Guided Experience (Journey App)



UI Integration Cards

Integrate and enable business content from SAP and third-party apps



Workflows

Design and run workflows for business processes

SAP Workflow Management



Launchpad Plugins

Extend global header bar and user menu



Chatbots

Develop and enable conversational experience for the most often employees' requests

SAP Conversational AI



API

Access and manage workspaces from third-party apps

Quick Demo

- Hands-on exercises are not provided,
- If interested, follow this tutorial:
 - [Create Your First Workspace in SAP Build Work Zone, advanced edition Workshop](#)

Key Summary Points

Digital Experience (DX) Services Portfolio at SAP (2 main offerings)

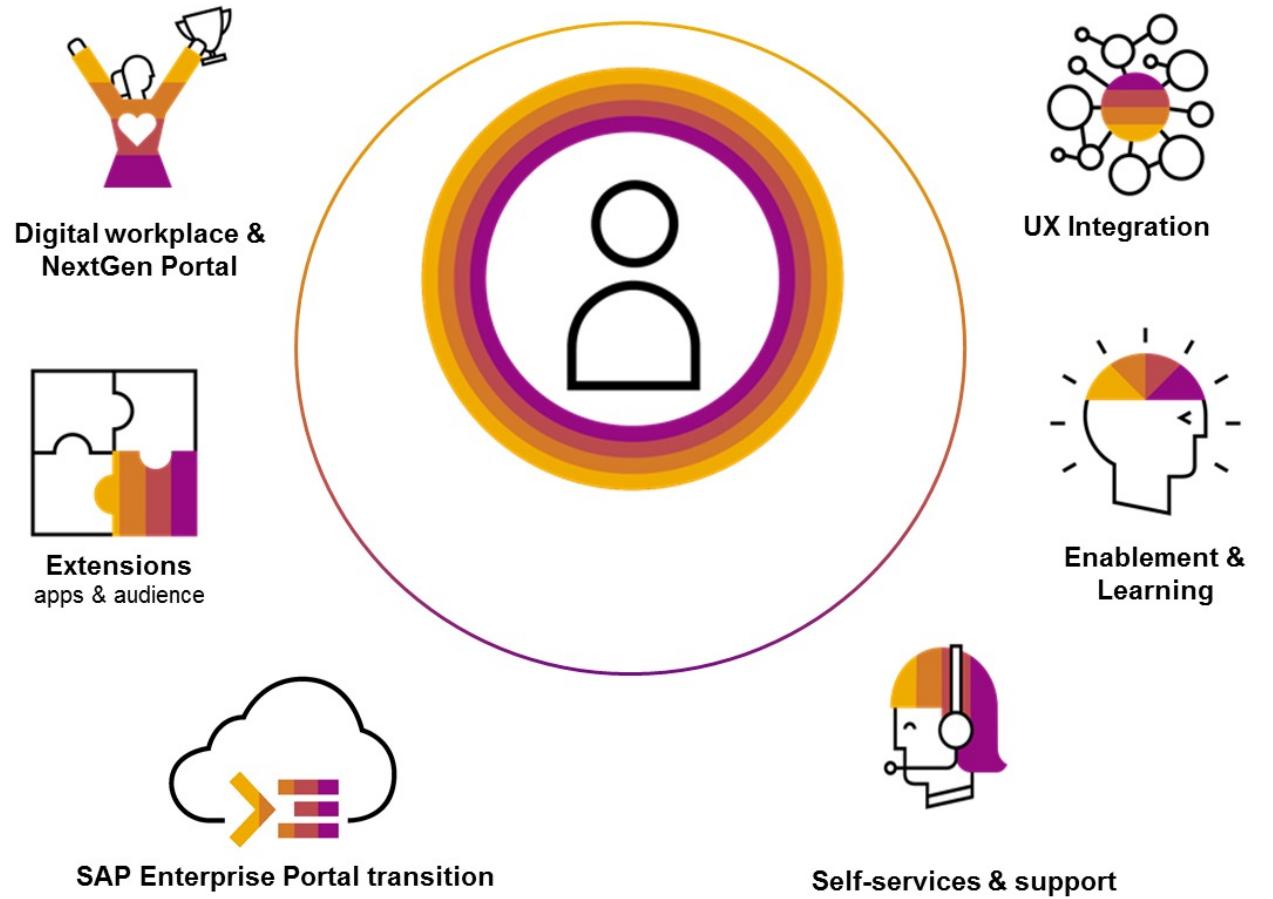
- SAP Build Work Zone, Standard Edition (SAP Launchpad Service)
- SAP Build Work Zone, Advanced Edition

Key Summary Points

Digital Experience (DX) Services Portfolio at SAP (2 main offerings)

- SAP Build Work Zone, standard edition
- SAP Build Work Zone, advanced edition

Key Summary Points



Typical Use Cases for SAP Build Work Zone

Key Summary Points

Capabilities of SAP Build Work Zone



App launcher
(link, tile, card)



Open app
in new tab, in-place



**Navigation &
URL parameters**



Language



**Theme &
branding**



**Single sign-on &
session management**



**Roles &
authorizations**



Content structure
(incl. roles and
apps)

Key Summary Points

Q1. In the context of user experience integration, which of the following dimensions were outlined?

- Ability to launch applications
- Roles and authorization handling
- C Web content management
- Flexible URL parameters
- E Mobile access

Correct

Incorrect. The Ability to launch applications, Flexible URL parameters and Roles and authorization handling were outlined in the context of user experience integration.

Key Summary Points

Key Building Blocks of SAP Build Work Zone

- Administrative Areas
 - Enables role based access and business focused decentral ways of working
- Homepages
 - Design entry page experience for all users
- Workspaces
 - Web content presentation – core element of user interaction
- Applications Launchpad
 - Built-in launchpad capabilities

Key Summary Points

Q9. The application launchpad is an optional component of SAP Work.

A

True



False

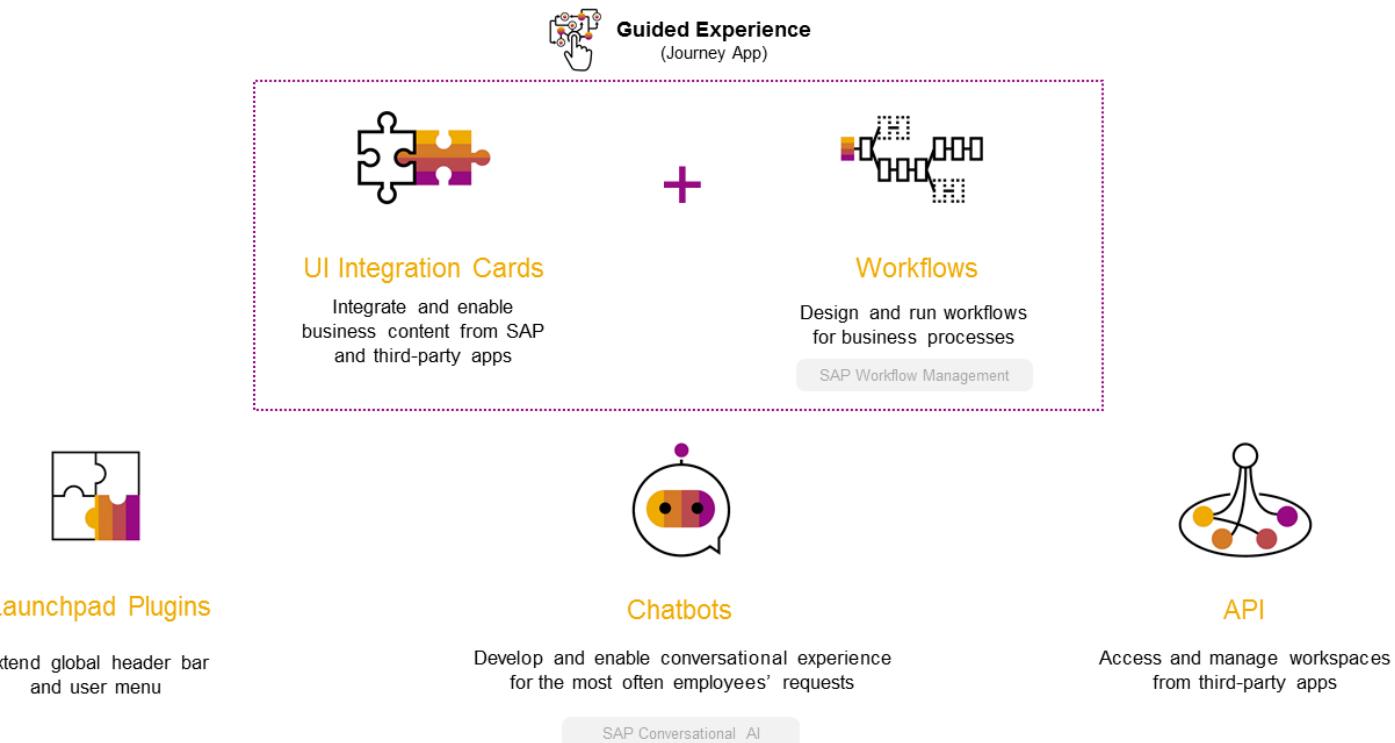


Correct

Correct. The application launchpad is not an optional component of SAP Work.

Key Summary Points

Extensibility Overview



Guided Experience

- UI Integration Cards
- Workflows

Key Summary Points

Q5. Which of the following best describes the concept of a guided experience?

- A Pre-built templates to be used when creating workspaces
- B Tool to display information and application content inside workspaces or homepages
- Workflow-based cards that help you perform specific tasks through a multistep process possibly spanning multiple systems



Correct

Correct. Guided experience is best described as Workflow-based cards that help you perform specific tasks through a multistep process possibly spanning multiple systems.

Key Summary Points

Q4. The chatbot integration with SAP Conversational AI is an optional integration scenario for SAP Work Zone.

A False

True

Correct

Correct. The chatbot integration with SAP Conversational AI is an optional integration scenario for SAP Work Zone.

Key Summary Points

Q8. Which of the following statements correctly describe the concept of the UI Integration Card?

A

Only SAP can build UI Integration Cards



Cards from different business applications can be added to SAP Work Zone workspaces



Declarative, consistent, and easy to consume



Small content building blocks, consolidating data from different systems into one page



Correct

Correct. UI Integration Cards are small content building blocks, consolidating data from different systems into one page. They are Declarative, consistent, and easy to consume, and cards from different business applications can be added to SAP Work Zone workspaces.

Key Summary Points

Q10. In addition to discussions, which of the following are part of the workspace forum(s)?

A Polls

Ideas

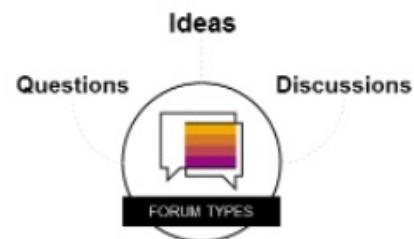
Questions

D Tasks

Correct

Correct. Ideas and Questions are part of the workspace forums(s).

Organize forums to discuss ideas and various business topics with members of workspace



Screenshot of the SAP Fiori Launchpad interface for the 'Ace Innovation Challenge' workspace. The top navigation bar includes 'Home', 'My Workspaces', 'Applications', 'Workspaces', and 'Tasks'. The workspace header shows 'Ace Innovation Challenge' with a brief description: 'The purpose of this group is to generate the best ideas for saving and improving Solar Panel efficiency. We are looking for ideas that can increase the life of existing panels and a chance to bring them to market.' Below the header, there are sections for 'Forum Topics / Ideas' and 'Forum Topics / Questions'. The 'Forum Topics / Ideas' section lists several posts:

- Deutsche Erneuerbare Energie Forum (posted about 6 months ago by Mike Summers)
- Additional features for the SolarPanel module (posted about 6 months ago by Mike Summers)
- Minimize thermal losses with Solar Panels (posted about 6 months ago by Mike Summers)
- How Design Layout for Maximum Efficiency for Hydronic Pumps (posted about 6 months ago by Mike Summers)
- Establish and Publish WPs for each Solar Product (posted about 6 months ago by Mike Summers)
- Change the calculations for proper setting of Wind Turbine Blades (posted about 6 months ago by Mike Summers)

	Launchpad	Homepages	Administrative Areas	Workspaces
 Features	<ul style="list-style-type: none"> Integrate apps deployed on SAP S/4HANA on premise, SAP BTP Cloud Foundry or ABAP environment. Expose content of various content providers: SAP S/4HANA on premise, SAP Enterprise Portal or SAP BTP on Cloud Foundry. Enables individual application and application group widgets to be used across homepages and workspaces. 	<ul style="list-style-type: none"> Inform users of company-wide information, announcements, and much more. Out-of-the-box cards and widgets for homepages Flexible design and integration options with a combination of content widgets, UI cards, guided experiences and business applications. 	<ul style="list-style-type: none"> Central role object to bundle different product capabilities such as homepages, templates, integration setups and more, e.g. per company division or region. Dedicated content section for area homepages. Area membership assignment based on memberlists 	<ul style="list-style-type: none"> Creation of public, private and external workspaces based on the target audience. Out-of-the-box cards and widgets for workspace overview pages. Structured collaboration and knowledge management capabilities with e.g. forum and knowledge base. Include external stakeholders with restricted view into dedicated workspaces.
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Application Focus

User Engagement and Interaction

Key Summary Points

Finding More Ways to Learn the SAP Build Toolset

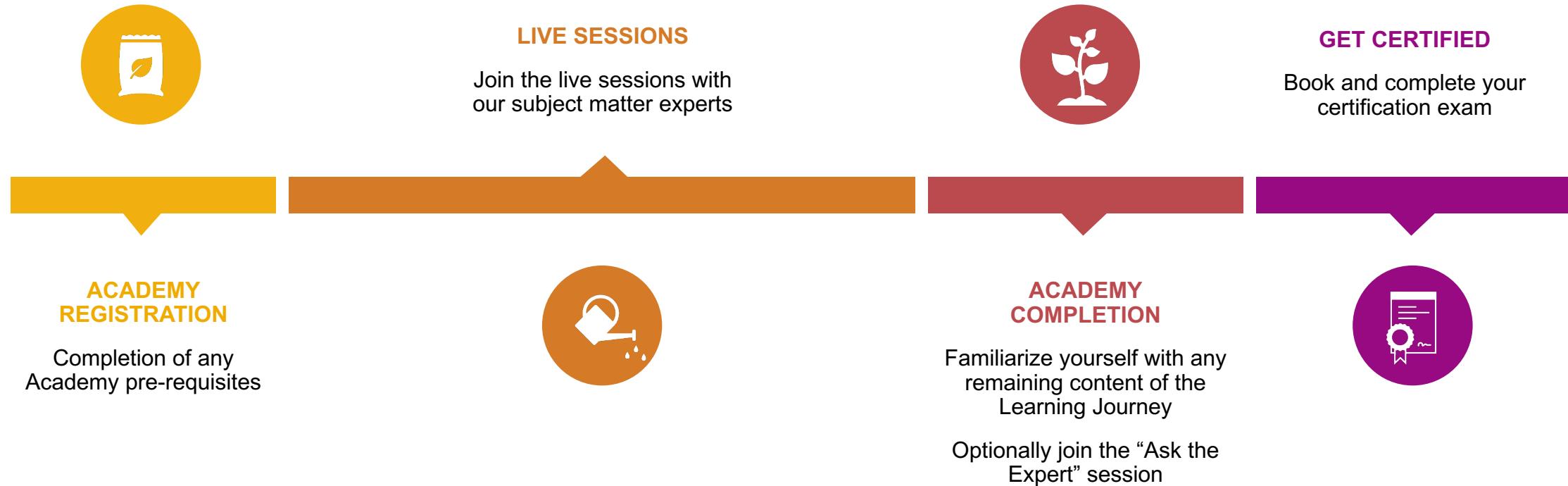
In this topic, you will learn about the available channels to find information about low-code / no-code learning and SAP Build content:

- SAP Learning
- SAP Discovery Center
- SAP Community
- SAP Help Portal
- SAP Build YouTube
- SAP Build LinkedIn

Outro



What are the next steps?



Breaks into 1+3 learning journeys

1 for overview, 3 for each product

More details see:

Start learning SAP Build and become a Citizen Developer <https://blogs.sap.com/2023/06/21/start-learning-sap-build-and-become-a-citizen-developer/>

The screenshot shows a learning journey titled "Utilize SAP Build for Low-Code / No-Code Applications and Automations for Citizen Developers". It includes a "Soon to be retired" notice, learning objectives, a detailed description of the journey, and a progress bar indicating current experience level.

Soon to be retired
Note that this learning journey will expire by 30 June 2023. Please be sure to complete it before this date, as your learning progress will not be saved thereafter.
Alternative learning journeys can be found in the related resources of the bottom of this page. [This blog post](#) provides an overview of the new curriculum.

Applications and Automations for Citizen Developers

6 Units | 12 hrs | Free (until certification)

Utilize SAP Build for Low-Code / No-Code Applications and Automations for Citizen Developers

and how to build applications and automations without writing any code.

Learning objectives

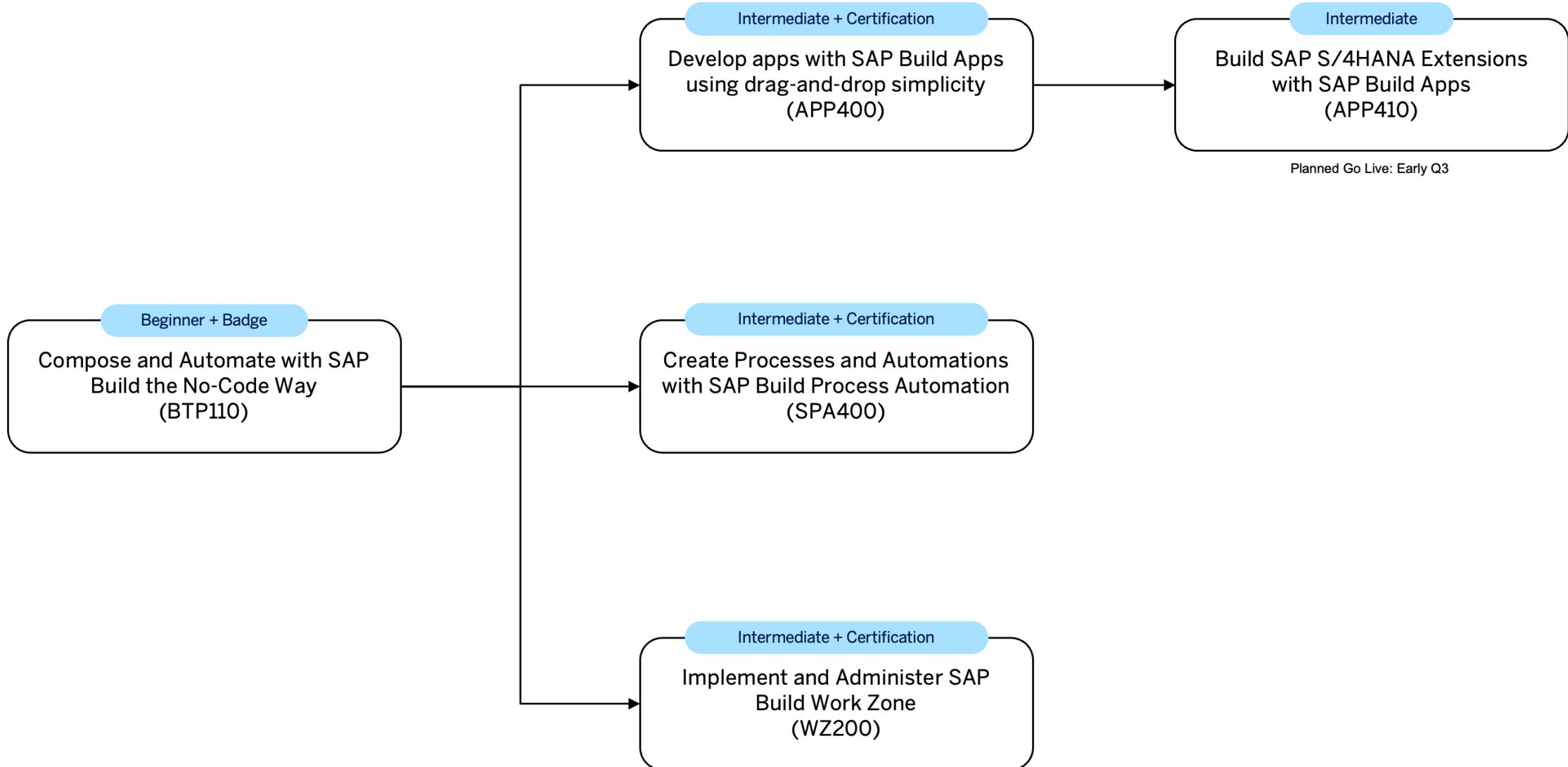
After completing this learning journey, business users will understand the need for and role of a citizen developer and how to develop simple low-code/no-code applications and business process automations using the SAP Build toolset. While practicing visual programming, you will leverage SAP Build Process Automation to create a workflow with robotic process automation, use SAP Build apps to develop a mobile app and an SAP extension, and discover how to construct business sites using SAP Build Work Zone. You will learn how to prepare for the SAP Certification for citizen developers and explore resources for low-code/no-code scenarios.

Your current experience in this topic

BEGINNER INTERMEDIATE ADVANCED

1. [badge] SAP Build - [Compose and Automate with SAP Build the No-Code Way](#)
2. SAP Build Apps – [Develop apps with SAP Build Apps using drag-and-drop simplicity](#)
3. SAP Build Process Automation – [Create Processes and Automations with SAP Build Process Automation](#)
4. [certificate] SAP Build Work Zone - [Implement and Administer SAP Build Work Zone](#)

The new SAP Build Curriculum – (Citizen) Developer Enablement



Certification preparation from Learning Journey to Certification

SAP Learning

All certifications C_LCNC_02

SAP Certified Citizen Developer Associate - SAP Build Low-code/No-code Applications and Automations

80 Questions 3 hrs 64% cut score View sample questions



Overview

The "SAP Certified Citizen Developer Associate - SAP Build Low-code/No-code Applications and Automations" certification exam validates that the candidate possesses the fundamental and core knowledge required of the LCNC application and automations profile. This certification proves that the candidate has an overall understanding and in-depth skills to participate as a member of a project team in a mentored role. This certificate builds on the basic knowledge gained through related SAP training. The certificate issued for passing this exam will be valid for 5 years.

Available Languages

- English

C_LCNC_02

Question distribution:

- 01 Application development | 35%
- 02 Business process automation | 36%
- 03 Business sites | 10%
- 04 Citizen development | 19%



Certification preparation

About question types

Answering a question correctly results in one point. Answering a question incorrectly results in zero points. For multiple response questions, all of the responses need to be correct in order to be awarded one point.

SAP Consultant Certification

Feb 28 2023 | Logged in as : Sample Time remaining: 00:14:32

SAP Build Low-code/No-code Applications and Automations

1 of 6

What kinds of decision rules exist in SAP Build Process Automation?
Note: There are 2 correct answers to this question.

Text rules
 Decision table rules
 Expression rules
 Decision diagrams

Assessment Navigator

1	2	3	4	5
6				

Next Question > **Assessment Navigator** **Submit**

SAP Consultant Certification

Feb 28 2023 | Logged in as : Sample Time remaining: 00:13:43

SAP Build Low-code/No-code Applications and Automations

5 of 6

What does SAP Build Apps do automatically when you build an application?

Generate a record ID
 Bind variables
 Add a formula
 Organize components

Assessment Navigator

1	2	3	4	5
6				

< Previous Question **Next Question >** **Assessment Navigator** **Submit**

Certification preparation

Important Exam Process and Security Guidelines

- An on-site exam:
 - is proctored in person by an exam supervisor
 - requires 2 forms of valid identification (not expired)
 - at least one government-issued photo ID
 - personal items (cell phones, bags, notepads, organizers, etc.) not allowed
- An online exam:
 - requires stable internet
 - is proctored remotely via Zoom (both webcam and entire desktop)
 - requires government-issued photo ID (not expired) via webcam
 - is only released by the exam supervisor after checking the exam environment
 - requires you to be in a quiet and secure room alone throughout the exam
 - you will be asked to rotate your webcam around the room
 - only one screen may be active.
 - cellphones/tablets and recording devices are forbidden
 - requires you use the Questionmark Secure browser to access the exam

More details [here](#)

Take SAP Certification Exams in your own language

With a new translation tool, SAP can now provide real-time machine translation from English to eight other languages: Chinese, French, German, Japanese, Korean, Portuguese, Russian, and Spanish

Please read [this blog](#) for additional details.

The screenshot shows a SAP Consultant Certification exam interface. At the top, it says "SAP Consultant Certification" and "May 18 2021 Logged in as: SAPdemo@questionmark.com". The main content area displays a question about SAP BPC options. A red box highlights a "Translation" window on the right side. This window has a "Language" dropdown menu with the following options:

- Chinese (简体中文)
- English
- French (Français)
- German (Deutsch)
- Japanese (日本語)
- Korean (한국어)

At the bottom of the screen, there are buttons for "Next Question > Assessment Navigator" and "Submit".

Free Certification Exam Attempt



**Utilize SAP Build
for Low-Code/No-Code
Applications and Automations
for Citizen Developers**

Partner Certification Academies for SAP BTP

Three Options Available To Register

- June 13, 15 and 27**
EMEA | MEE
- June 20, 22 and 29**
APJ | ANZ
- June 20, 22 and 29**
NA | LAC

SAP PartnerEdge

We will be offering a **FREE** certification exam attempt to the first 500 that registered and fully attend this certification academy.

See more: https://partneredge.sap.com/en/library/education/psd/2023/may/e_oe_te_w_pca_32744.html

Certification Incentive

- ✓ Reimbursement of certification attempt costs*
- ✓ Partner needs to certify at least 5 consultants*
- ✓ Available to eligible PE Sell partners*

* Please check all eligibility criteria and details of the incentive here:

- [APJ region](#)
- [Other regions](#)

(only accessible to employees of PE Sell partners of Silver or Gold level)

The image displays two screenshots of SAP PBC website pages. The top screenshot shows the 'Partner Cloud Certification Initiative' page, which includes a title, a star rating of 0, a brief description about a limited-time offer for reimbursement, and a 'Contact Us' button. The bottom screenshot shows the 'APJ Partner Cloud Capacity Program' page, which also includes a title, a star rating of 0, a detailed description about the program's purpose and benefits, and a 'Contact Us' button. Both pages have a dark background featuring a person working in a server room.

Purchasing certification exam attempts

Book your certification with product code CER006, CER001 or CERS01

The screenshot shows the SAP TRAINING website interface. At the top, there is a navigation bar with links for 'Explore catalog', 'SAP Learning Hub', 'SAP Certification', and 'More'. Below the navigation bar is a search bar with the placeholder 'Enter keyword to search for courses, certifications or training paths'. The main content area displays a product card for 'CER001 SAP Certification Exam, One Attempt'. The product title is highlighted with a red circle. Below the title, it says 'Delivery Methods: SAP Certification', 'Level: Certification', and 'Languages: English'. A 'Solution Release: 010' link is at the bottom left. On the right side of the card, there is a 'Chat Now' button. Below the card, there is a 'Course announcements' section with social sharing icons (LinkedIn, Twitter, Facebook, Email) and a bulleted list about SAP Certification validation and proctoring. There is also a 'Course information' and 'Content' section with a note about a subscription providing 12-months access to Certification Hub. A price of '200.00 € (EUR)' is listed with a note that it 'Price excludes tax.' and a blue 'Add to basket' button.

The screenshot shows the SAP TRAINING website interface, similar to the first one but for a different product. At the top, there is a navigation bar with links for 'Explore catalog', 'SAP Learning Hub', 'SAP Certification', and 'More'. Below the navigation bar is a search bar with the placeholder 'Enter keyword to search for courses, certifications or training paths'. The main content area displays a product card for 'CER006 SAP Certification Exam, Six Attempts'. The product title is highlighted with a red circle. Below the title, it says 'Delivery Methods: SAP Certification', 'Level: Certification', and 'Languages: English'. A 'Solution Release: 010' link is at the bottom left. On the right side of the card, there is a 'Chat Now' button. Below the card, there is a 'Course announcements' section with social sharing icons (LinkedIn, Twitter, Facebook, Email) and a bulleted list about SAP Certification validation and proctoring. There is also a 'Course information' and 'Content' section with a note about a subscription providing 12-months access to Certification Hub. A price of '500.00 € (EUR)' is listed with a note that it 'Price excludes tax.' and a blue 'Add to basket' button.

Ask your “off-line” questions in the SAP BTP Learning community

The screenshot shows the SAP BTP Learning community homepage. At the top, there's a navigation bar with links for Groups, Partner Groups, SAP Events, Help, and user icons. A search bar is at the top right. Below the header, the title "SAP BTP Learning" is displayed over a dark background with a network of nodes. A breadcrumb path shows the current location: SAP Community Groups > Groups > SAP Learning > SAP BTP Learning.

Welcome learners! Join in this new and exciting collaboration experience. (Post by AB on 11-10-2021)
6226 views, 14 comments, 32 likes.

How to get certified as an SAP BTP expert - in 3 simple steps (Post by AB on 11-16-2021)
7901 views, 12 comments, 24 likes.

SAP Learning Tips & Tricks: How to Bookmark a Lesson (Post by AB on 12-03-2021)
946 views, 0 comments, 1 like.

Group Activity section with a red circle around the "Join Group" button.

The screenshot shows the SAP BTP Learning community homepage after joining the group. A green success message box appears: "Success! You are now a member and will receive notifications of group activity." The rest of the page content is identical to the first screenshot, including the three posts and the "Group Activity" section with a red circle around the "Ask a question" button.

Complement your certification related learning with SAP HANA Academy

Check out the [blog post](#) for current and coming topics

Denys van Kempen 

February 14, 2023 | 6 minute read

Get Certified – SAP Build Low-code/No-code Applications and Automations

1 comment 11 likes 2,227 views

Interested to get SAP BTP certified? Here is a video tutorial series from the SAP HANA Academy to help you reach your goal.

- Get Certified – SAP Build Low-code/No-code << this article
- Get Certified – SAP Analytics Cloud
- Get Certified – SAP Integration Suite
- Get Certified – SAP BTP Extension Developer (Extension Suite)
- Get Certified – SAP HANA Cloud Development
- Get Certified – SAP HANA Cloud Administration

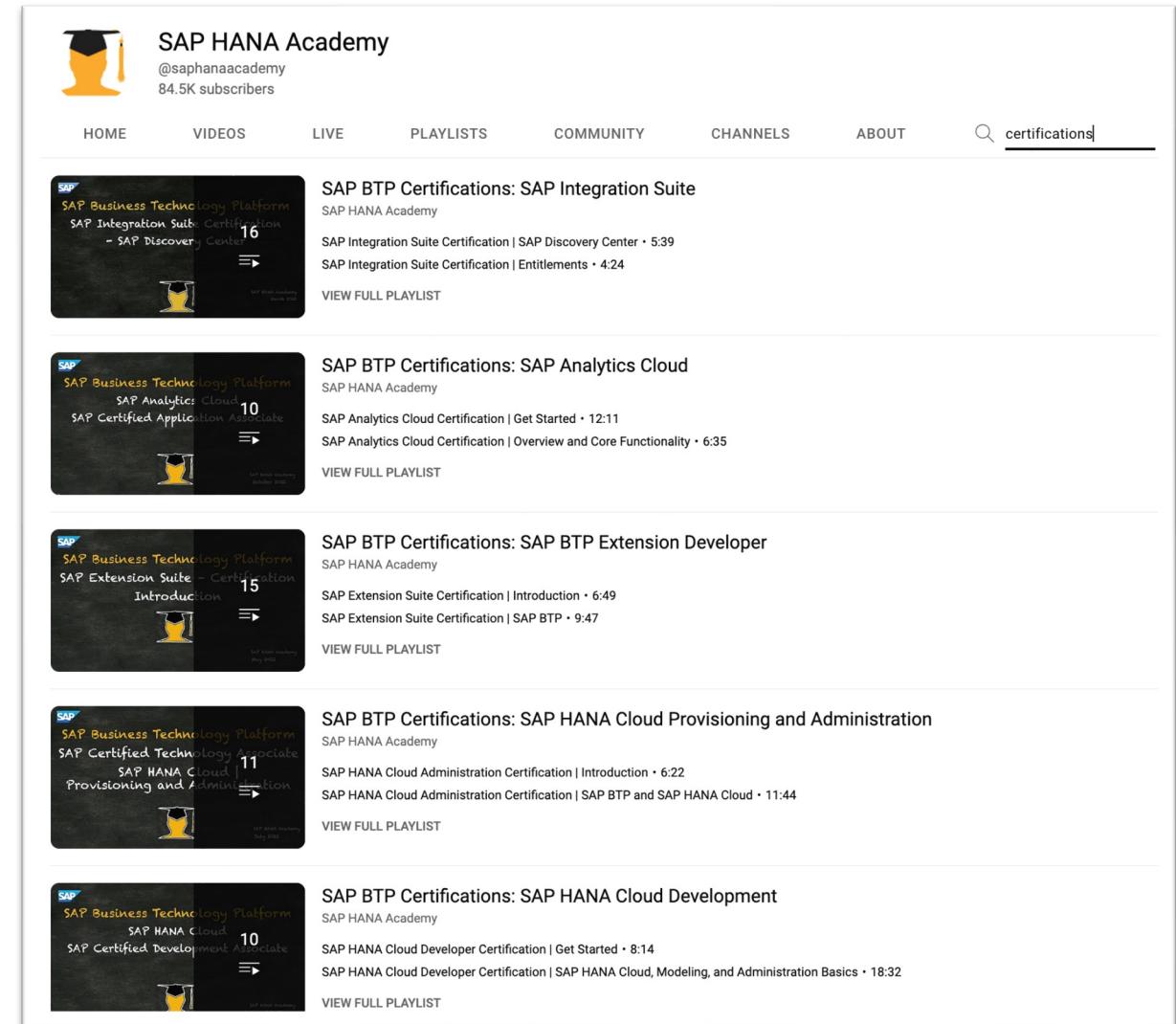
For earlier articles about SAP BTP certifications, see

- Get Certified: C_SAC | SAP Certified Application Associate – SAP Analytics Cloud
- Get Certified: C_CPI_14 | SAP Certified Development Associate – SAP Integration Suite
- Get Certified: C_CPE_13 | SAP Certified Development Associate – SAP Extension Suite
- Get Certified: C_HCADM | SAP Certified Technology Associate – SAP HANA Cloud
- Get Certified: C_HCMOD_01 | SAP Certified Technology Associate – SAP HANA Cloud
- Get Certified: C_HCDEV_01 | SAP Certified Development Associate – SAP HANA Cloud

Questions? Please post as comment.

Useful? Give us a like and share on social media.

Dive directly into the [video playlist @saphanaacademy](#) of the first topic covered – Up-Coming*



The screenshot shows the SAP HANA Academy YouTube channel interface. At the top, there's a profile picture of a graduation cap, the channel name "SAP HANA Academy", the handle "@saphanaacademy", and subscriber count "84.5K subscribers". Below the header are navigation links: HOME, VIDEOS, LIVE, PLAYLISTS, COMMUNITY, CHANNELS, and ABOUT. A search bar contains the query "certifications". The main content area displays five video thumbnails, each representing a different SAP BTP certification topic:

- SAP BTP Certifications: SAP Integration Suite**
SAP HANA Academy
SAP Integration Suite Certification | SAP Discovery Center • 5:39
SAP Integration Suite Certification | Entitlements • 4:24
[VIEW FULL PLAYLIST](#)
- SAP BTP Certifications: SAP Analytics Cloud**
SAP HANA Academy
SAP Analytics Cloud Certification | Get Started • 12:11
SAP Analytics Cloud Certification | Overview and Core Functionality • 6:35
[VIEW FULL PLAYLIST](#)
- SAP BTP Certifications: SAP BTP Extension Developer**
SAP HANA Academy
SAP Extension Suite Certification | Introduction • 6:49
SAP Extension Suite Certification | SAP BTP • 9:47
[VIEW FULL PLAYLIST](#)
- SAP BTP Certifications: SAP HANA Cloud Provisioning and Administration**
SAP HANA Academy
SAP HANA Cloud Administration Certification | Introduction • 6:22
SAP HANA Cloud Administration Certification | SAP BTP and SAP HANA Cloud • 11:44
[VIEW FULL PLAYLIST](#)
- SAP BTP Certifications: SAP HANA Cloud Development**
SAP HANA Academy
SAP HANA Cloud Developer Certification | Get Started • 8:14
SAP HANA Cloud Developer Certification | SAP HANA Cloud, Modeling, and Administration Basics • 18:32
[VIEW FULL PLAYLIST](#)

Schedule for all Partner Certification Academies for SAP BTP

As of 24th of May 2023

Learning Journey	Associated Certification	Schedule & Registration		
		NA/LAC	EMEA	APJ/ANZ
Explore SAP Analytics Cloud	SAP Certified Application Associate - SAP Analytics Cloud	Mar 14,16,28	Mar 14,16,28	Mar 14,16,28
Build side-by-side extensions on SAP BTP	SAP Certified Development Associate - SAP BTP Extension Developer	Jun 13,15,27	Jun 8,9,20	Jun 13,15,27
Developing with SAP Integration Suite	SAP Certified Development Associate - SAP Integration Suite	Jun 8,9,20	Jun 13,15,27	Jun 12,14,21
Develop Data Models with SAP HANA Cloud	SAP Certified Technology Associate - SAP HANA Cloud Modeling	May 8,10,12,22	May 15,17,19,29	May 8,10,12,22
Develop Applications Running on SAP BTP Using SAP HANA Cloud	SAP Certified Development Associate - SAP HANA Cloud 1.0	May 15,17,19,29	May 22,24,26 / Jun 6	May 15,17,19,29
Explore Provisioning and Administration with SAP HANA Cloud	SAP Certified Technology Associate - SAP HANA Cloud Provisioning and Administration	Q4 2022 replay	Q4 2022 replay	Q4 2022 replay
Utilize SAP Build for Low-Code/No-Code Applications and Automations for Citizen Developers	SAP Certified Citizen Developer Associate - SAP Build Low-code/No-code Applications and Automations	Jun 20,22,29	Jun 13,15,27	Jun 20,22,29
Implement and Administer SAP Build Work Zone	SAP Certified Application Associate - SAP Build Work Zone - Implementation and Administration	Apr 17,18,25	Mar 21,23,29	Mar 28,30 / Apr 11

Last date is the optional Ask-the-Expert session

Latest schedule and information can always be found [here](#).

Please help amplify on Social Media

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47,262 followers
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STARTING SOON! Join this **#SAPPartner** Certification Academy to learn about and get certified for **#SAPBTP** side-by-side extension development. Gain an overview of key features and tools to use in future extension projects on SAP BTP. Regional sessions available - register <https://sap.to/6046O9g3s>



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Mark Your Calendar! The **#SAPPartner** Certification Academy just added sessions to get certified for SAP Integration Suite. Register to gain an overview of key features and tools of the SAP Integration Suite to use in future extension projects on **#SAPBTP**.
Regional sessions are offered:

- ✓ NA/LAC <https://sap.to/6048OgBU>
- ✓ APJ/ANZ <https://sap.to/6049OgBU>
- ✓ EMEA <https://sap.to/6040OgBU>



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Why wait? Join the **#SAPPartner** Certification Academy to get certified for Low-Code/No-Code Applications and Automations. Gain an overview of the SAP Build portfolio's key features and tools for future **#SAPBTP** projects. Select your region to register <https://sap.to/6049OYlhV>



Build side-by-side extensions on SAP BTP:
<https://twitter.com/SAPPartnerEdge/status/1658791227322519557>
<https://www.linkedin.com/feed/update/urn:li:activity:7064753228743077889>

SAP Integration Suite:
<https://www.linkedin.com/feed/update/urn:li:activity:7063786860992458752/>
<https://twitter.com/SAPPartnerEdge/status/1658277840691789825>

Utilize SAP Build for Low-Code/No-Code Applications and Automations for Citizen Developers:
<https://twitter.com/SAPPartnerEdge/status/1660527666158501888>
<https://www.linkedin.com/feed/update/urn:li:activity:70664896539331072>

Thank you.

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