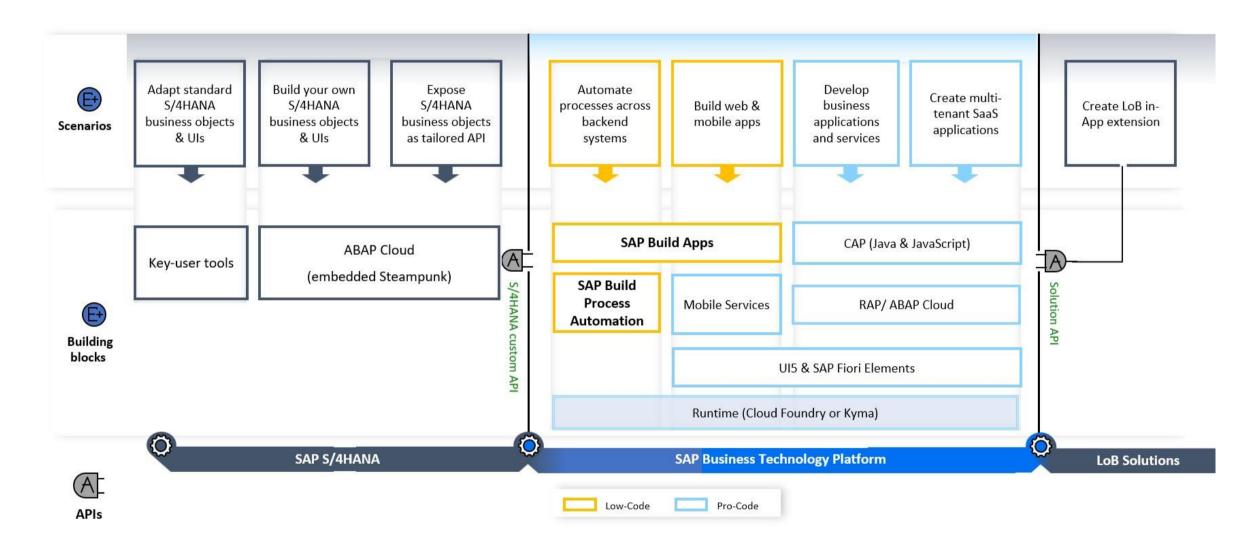# What We'll Cover

- Building Apps in SAP BTP - Overview
- What needs to be tested?
- Functional (UI) & API Components of Interest
- Load and Performance Testing
- Leveraging existing testing automation
- Wrap-up

Building & Testing in SAP BTP

Comparing "classic" ECC & S/4 to SAP BTP Extensibility
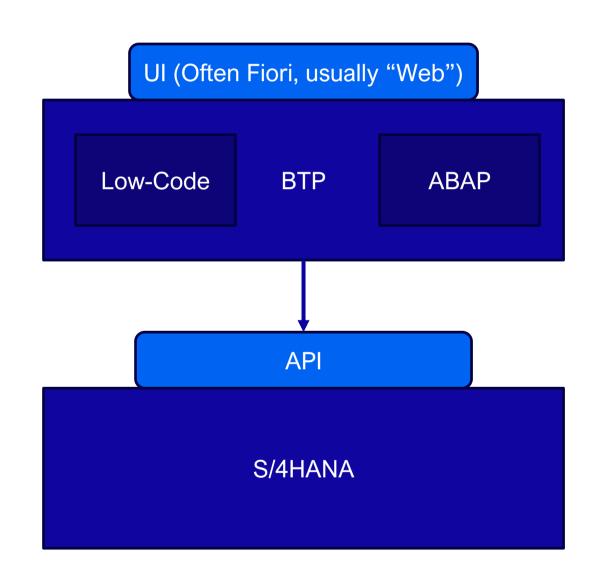
Key Elements of Testing SAP BTP Applications

Most applications built on SAP BTP will have two key areas of change, and thus testing points of interest:
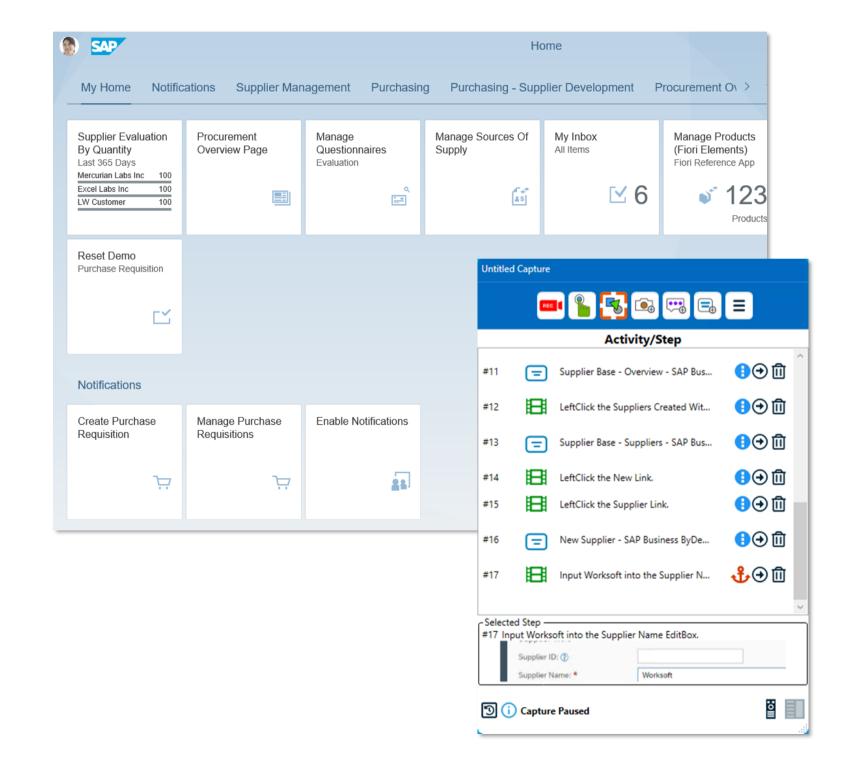
- Services/APIs from the SAP S/4HANA layer for core ERP data and functionality.

- A user interface at the SAP BTP layer, often SAP Fiori but almost always SAP Web.

Testing the UI and Business Process

Use end-to-end capture and automation as a best practice:

- SAP BTP-built applications might be singular, but often represent only part of the total business process. So, don't change what you do today.

- Use Capture and Discovery tools to automate complicated processes with critical variants.

Load Testing and Mobile Interfaces

End-to-end testing is the most important, but
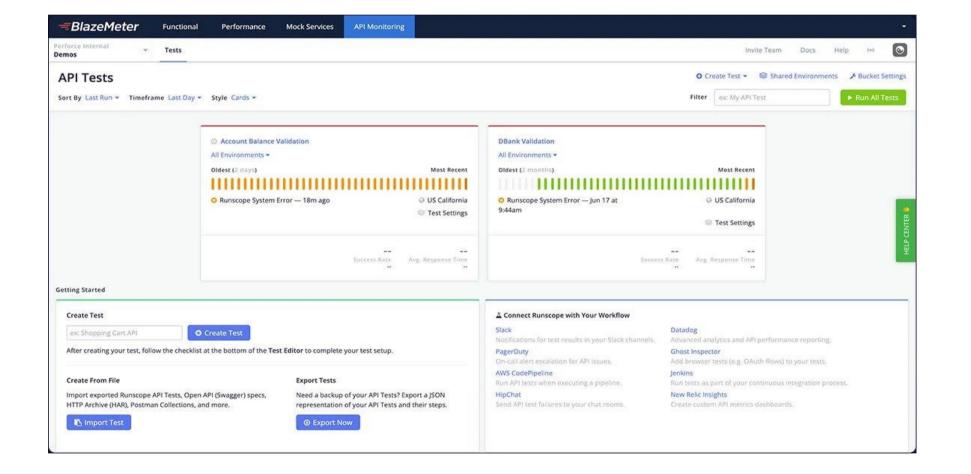API/Interface testing can be highly useful.

Tools specific to testing APIs known for this
application with with SAP:

- Blazemeter – can also be used for API monitoring
- Postman
- Others

Leveraging Existing Automation Solutions

Go no-script / no-code if you can – UI layer tests should be about end-to-end workflow and process, not UI particulars.

Build from the business process for UI – use a desktop recorder to accelerate test case creation.

Build a new set of API layer tests – validate key functionality such as inquiry and commit calls.

Make sure the solution will scale – your new loosely coupled apps makes risk-based testing… risky. Often, the technical dependencies cannot be accurately mapped.

Wrap-up

Where to Find More Information

General information about SAP BTP Development and Architecture:

https://www.sap.com/products/technology-platform/build/innovations.html

https://www.sap.com/products/technology-platform/developer-tools.html

https://www.sap.com/products/technology-platform/build.html

https://www.sap.com/products/technology-platform/abap.html

SAP BTP Delivery and Roadmap:

https://www.sap.com/products/technology platform/solutions.html?gl=https%3A%2F%2Froadmaps.sap.com%2Fboard%3FPRODUCT%3D42F2E964FAAF1EDA9FF7 53E17F3000E5%26range%3DCURRENT-LAST%23Q2%25202023

Key Points to Take Home

- Testing SAP BTP means testing a backend (API) and functional (Web) Layer – plan for both.

- Use end-to-end methodology for testing the functional layer.

- Risk-Based Testing can fail to identify impact because of loose coupling in the design of SAP BTP apps.

- Load and Performance Testing will likely be against the API.

Thank you! Any questions?

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2:45 PM Live Demonstration

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