

# Streamline Salesforce E2E UI Testing with UTAM

Sebastiano Schwarz, DevOps Ninja @ Capgemini

Christopher Ramm, SF CTO Germany & CTA @ Capgemini



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# Coffee on us.

The first 800 Trailblazers to provide feedback on this event will receive a \$5 Starbucks gift card.\*

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# Who are we?



**Sebastiano Schwarz**

Salesforce Solution Architect  
& DevOps Ninja,  
Capgemini



**Christopher Ramm**

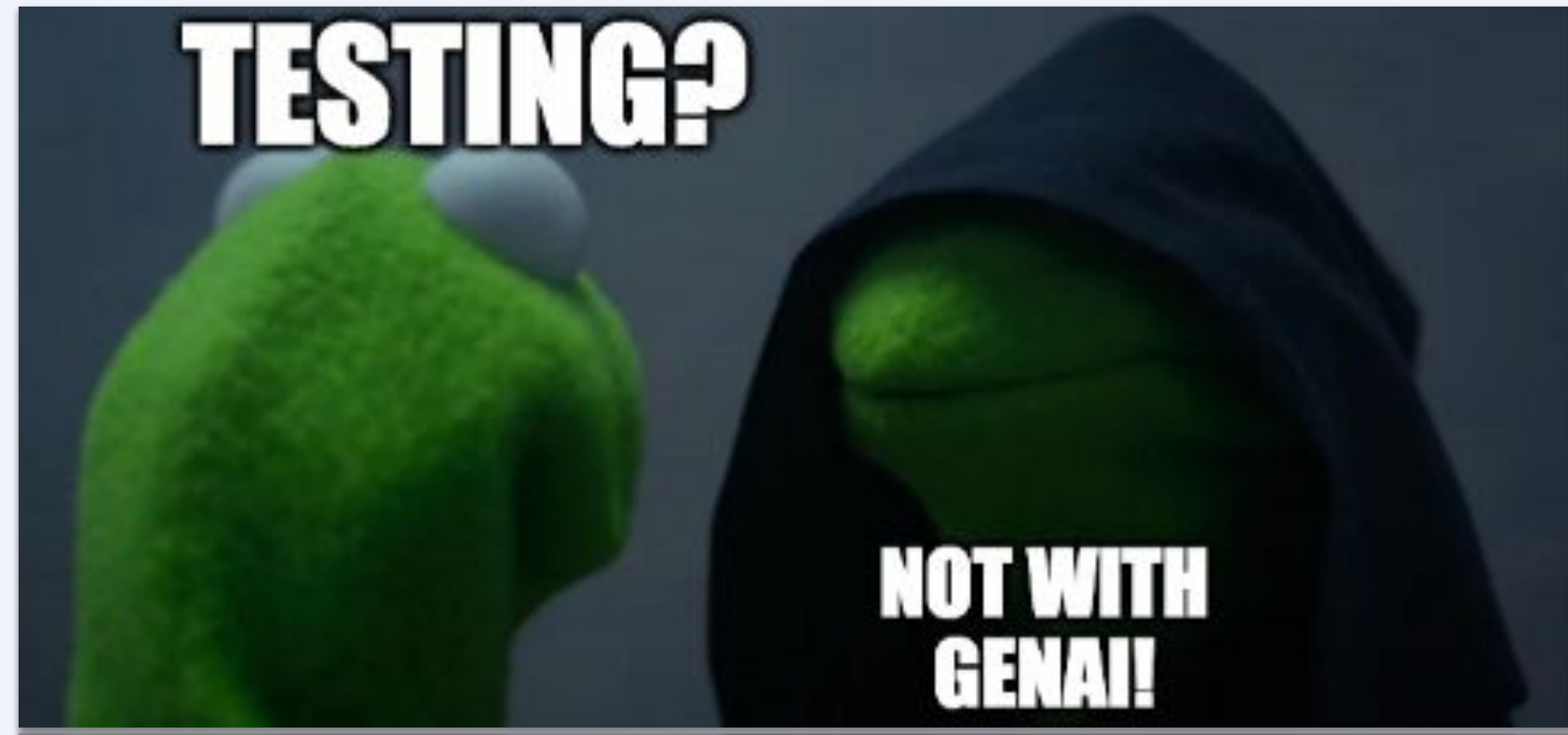
Salesforce CTO Germany &  
Salesforce CTA,  
Capgemini

# Agenda

- Why End-2-End Testing?
- What is UTAM?
- Don't tell me - show me (Demo)
- How UTAM is embedded into DevOps cycle



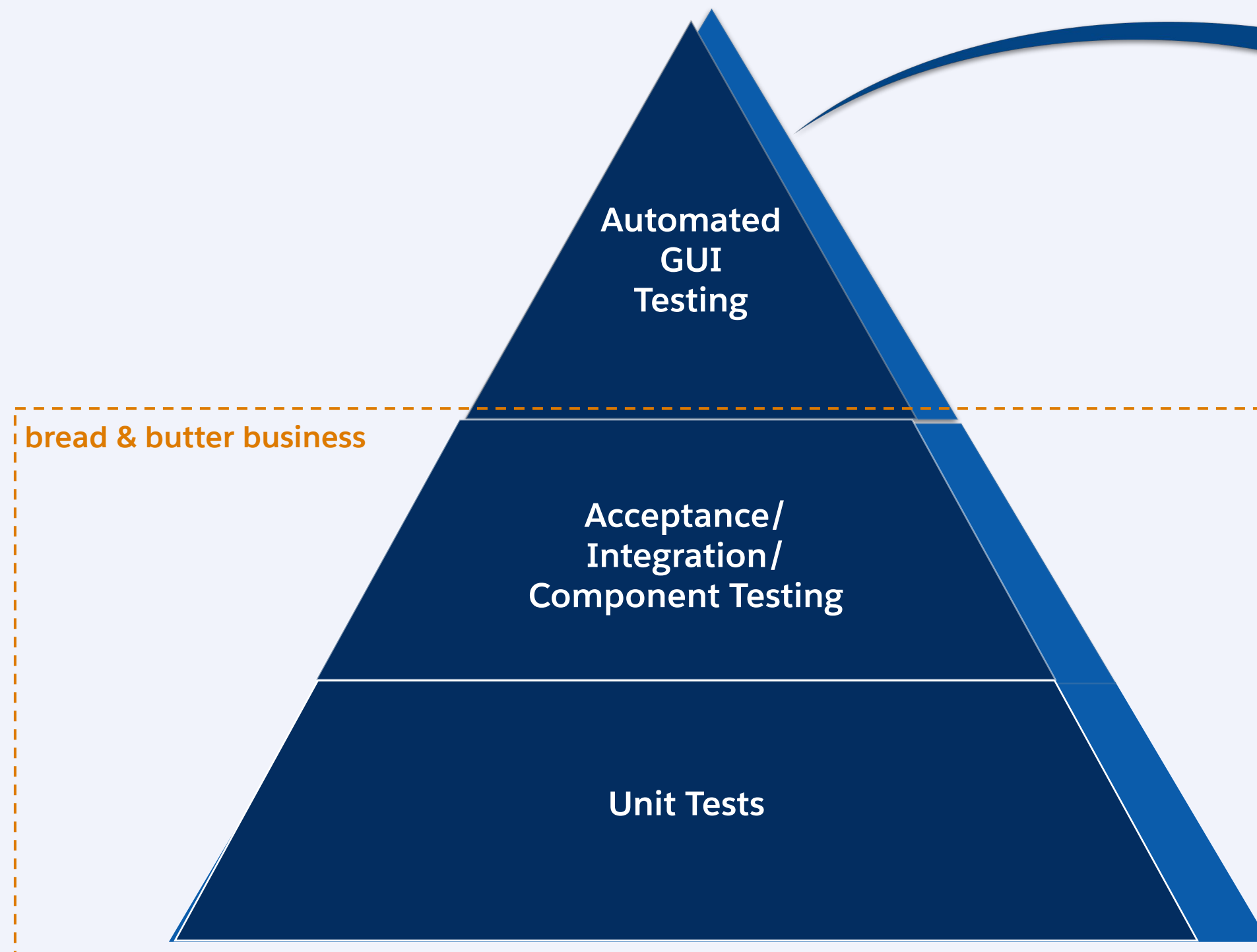
Is testing in  
the age of  
GenAI even  
necessary?



# Balancing a testing strategy increasing ROI



Choosing between different ways of testing



## Why?

- **Consistency** - automation minimizes human error in repetitive testing tasks, ensuring more reliable and consistent results
- **Efficiency** - allows for the execution of hundreds of test cases simultaneously, covering numerous user scenarios and validating edge cases
- **Faster** - helps businesses adapt quickly to Salesforce's frequent updates and releases

# Crafting a Comprehensive Test Strategy

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Alignment, effectiveness and quality in ALM processes

**Test iteratively,  
frequently, and  
automated**

Tailor testing strategies  
to application risk  
levels, define  
environment-specific  
test requirements



**Not every change  
requires every kind  
of test**

Testing strategy should  
accommodate  
different risk levels -  
and test based on  
criticality



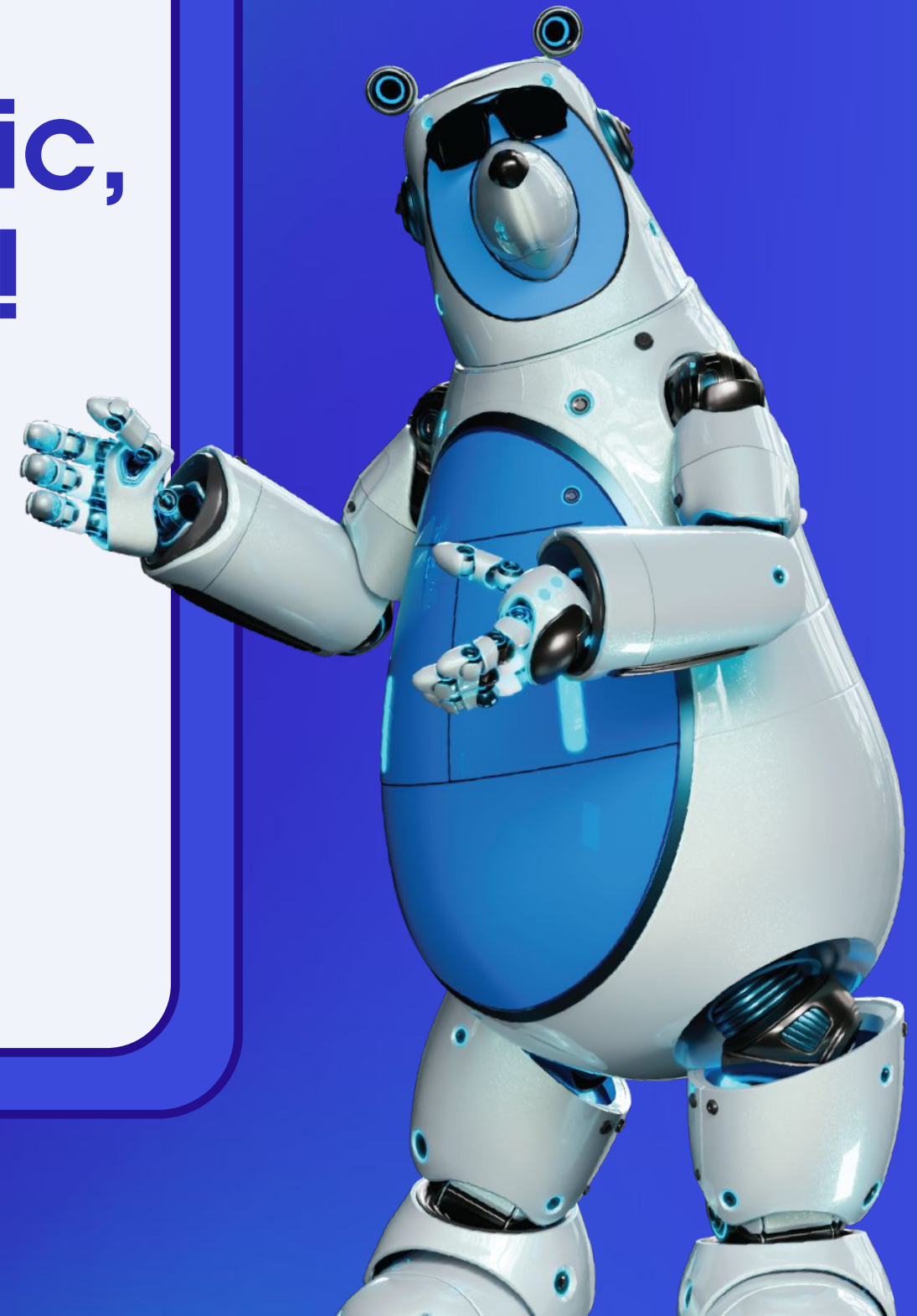
**Consider  
non-functional  
requirements**

Test across devices  
and replicate  
production-like  
conditions



# Salesforce comes with a dynamic, fast changing UI - which is great!

...but these can cause challenges in keeping your tests stable & up-to-date



# UTAM can Help to Overcome These Challenges

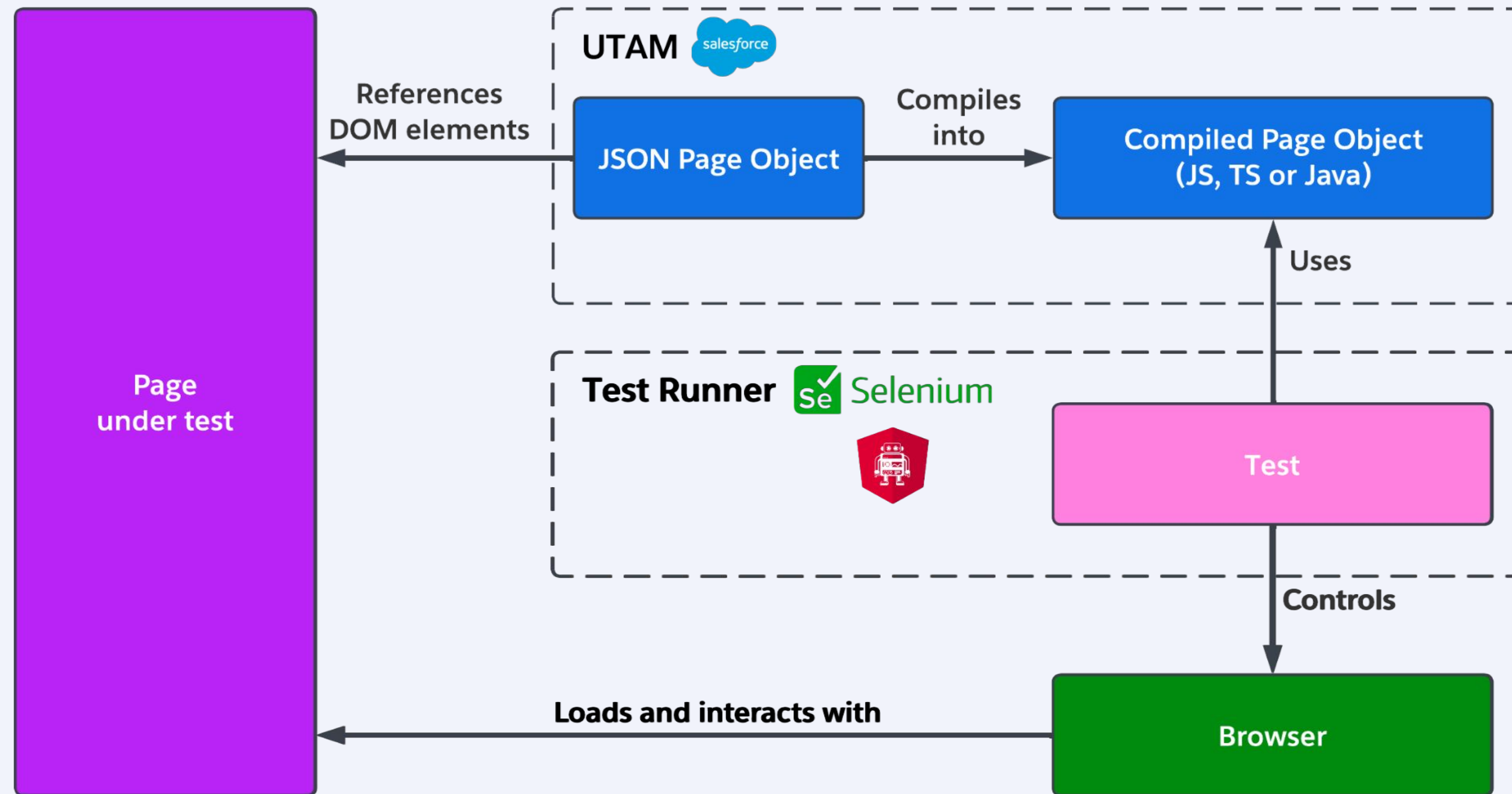
UTAM enhances E2E testing by providing an interface layer leveraging Page Objects to make tests easier to write and maintain

- Portable implementation of the Page Object Design Pattern
- Test framework agnostic and works with both JavaScript and Java
- Salesforce maintains a Page Objects library updated with each release

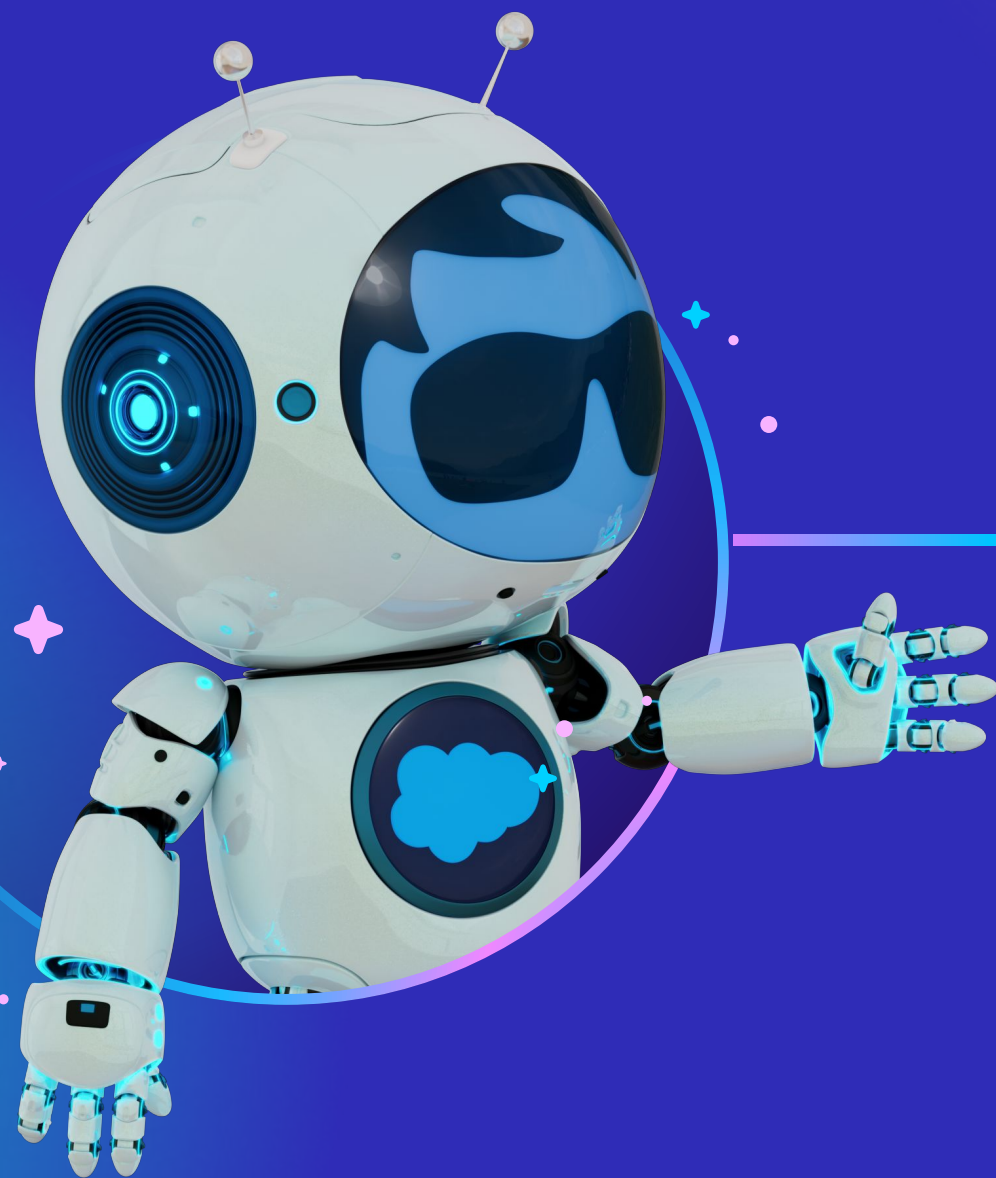
# Page Object Model Design Pattern



## Leveraging JSON Page Objects



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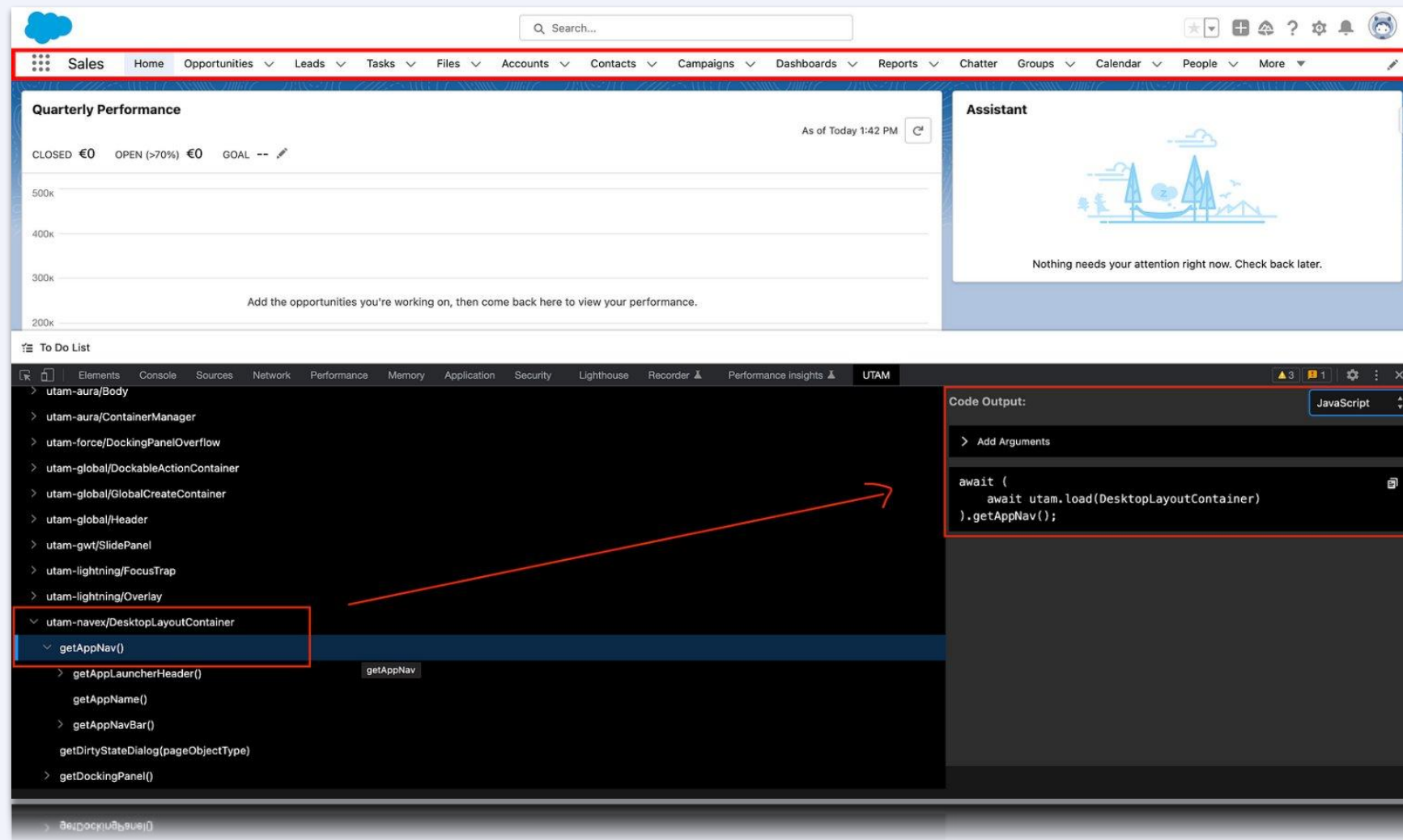


# Demo

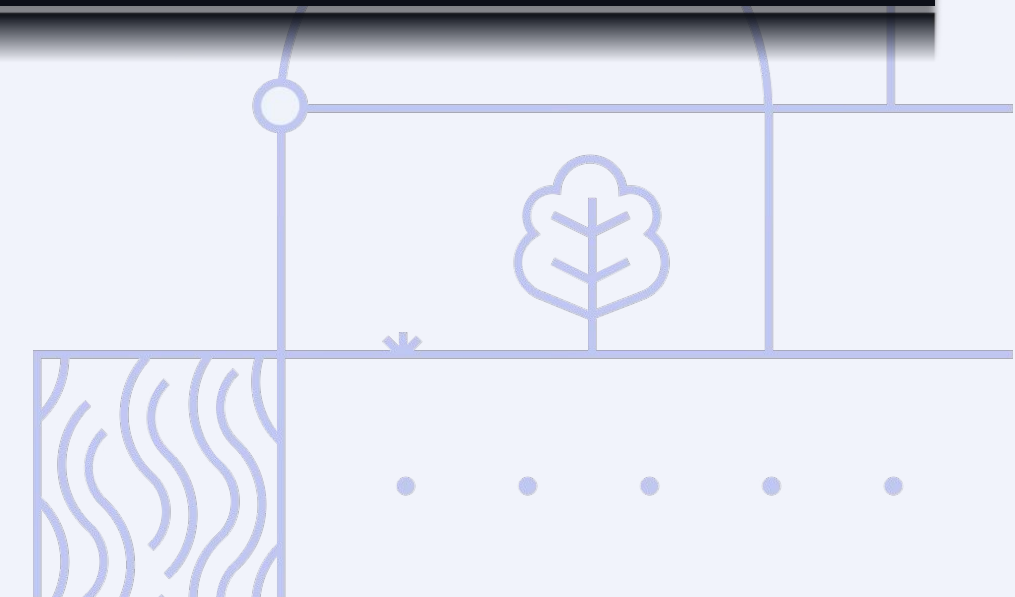
# Browser Plugin to support writing UTAM Tests



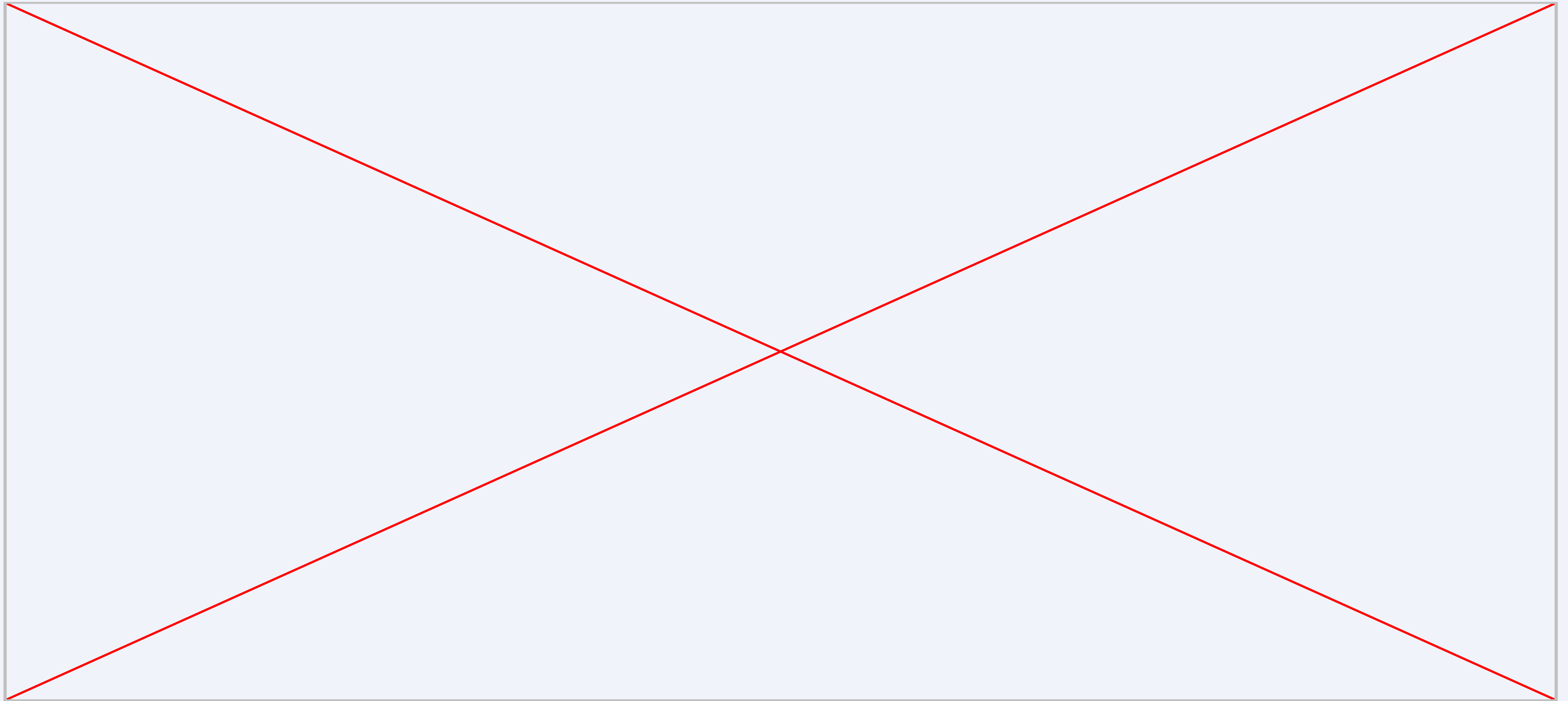
## Identify Page Objects and Generate Test Code Effortlessly



```
37 it('navigate to accounts tab', async () => {
38     // select the navigation bar of the current app
39     const container = await utam.load(DesktopLayoutContainer);
40     const appNav = await container.getAppNav();
41     const appNavBar = await appNav.getAppNavBar();
42
43     // select and click the accounts tab
44     const tab = await appNavBar.getNavItem('Accounts');
45     await tab.clickAndWaitForUrl('lightning/o/Account/list?filterName=Recent');
46
47     // select current list view
48     const listView = await (await utam.load(ObjectHomeDesktop)).getListView();
49     const listViewHeader = await listView.getHeader();
50     const listViewName = await listViewHeader.getSelectedListViewName();
51
52     // assert that you have selected the correct list view
53     expect(listViewName).toEqual('Recently Viewed');
54 });
```



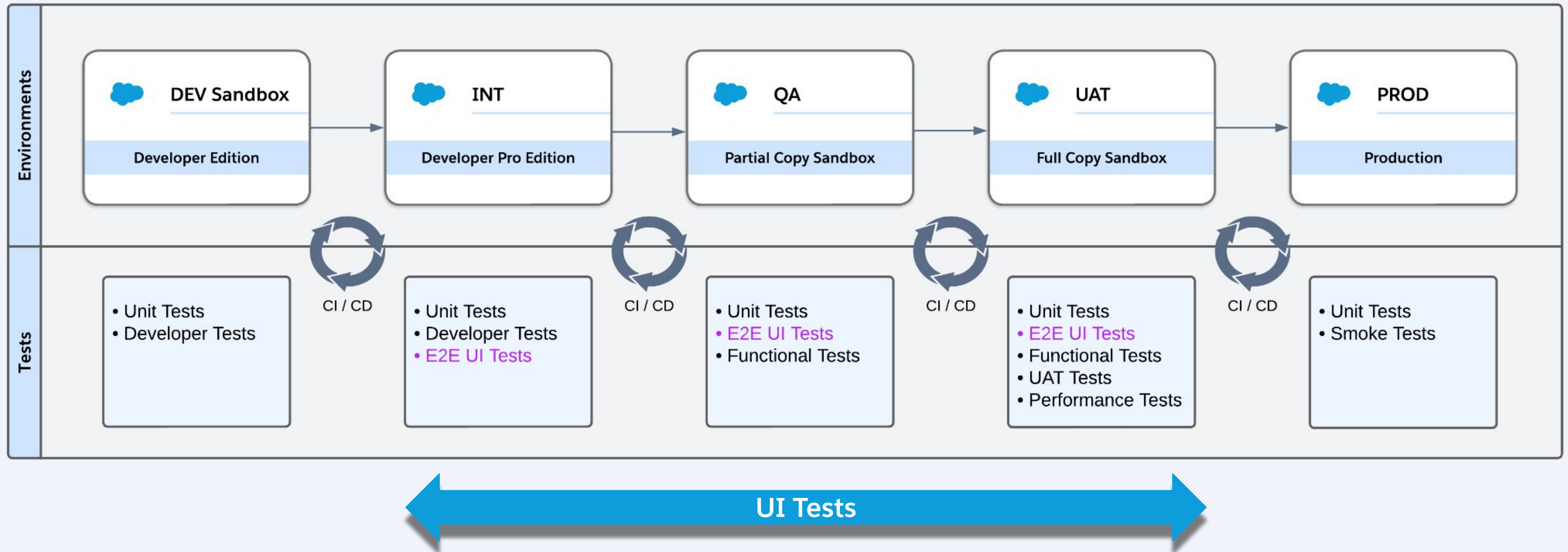
# Demo: Local UTAM Test Execution



# Testing in Application Lifecycle Management



Increase confidence and trust in the deployment of your features

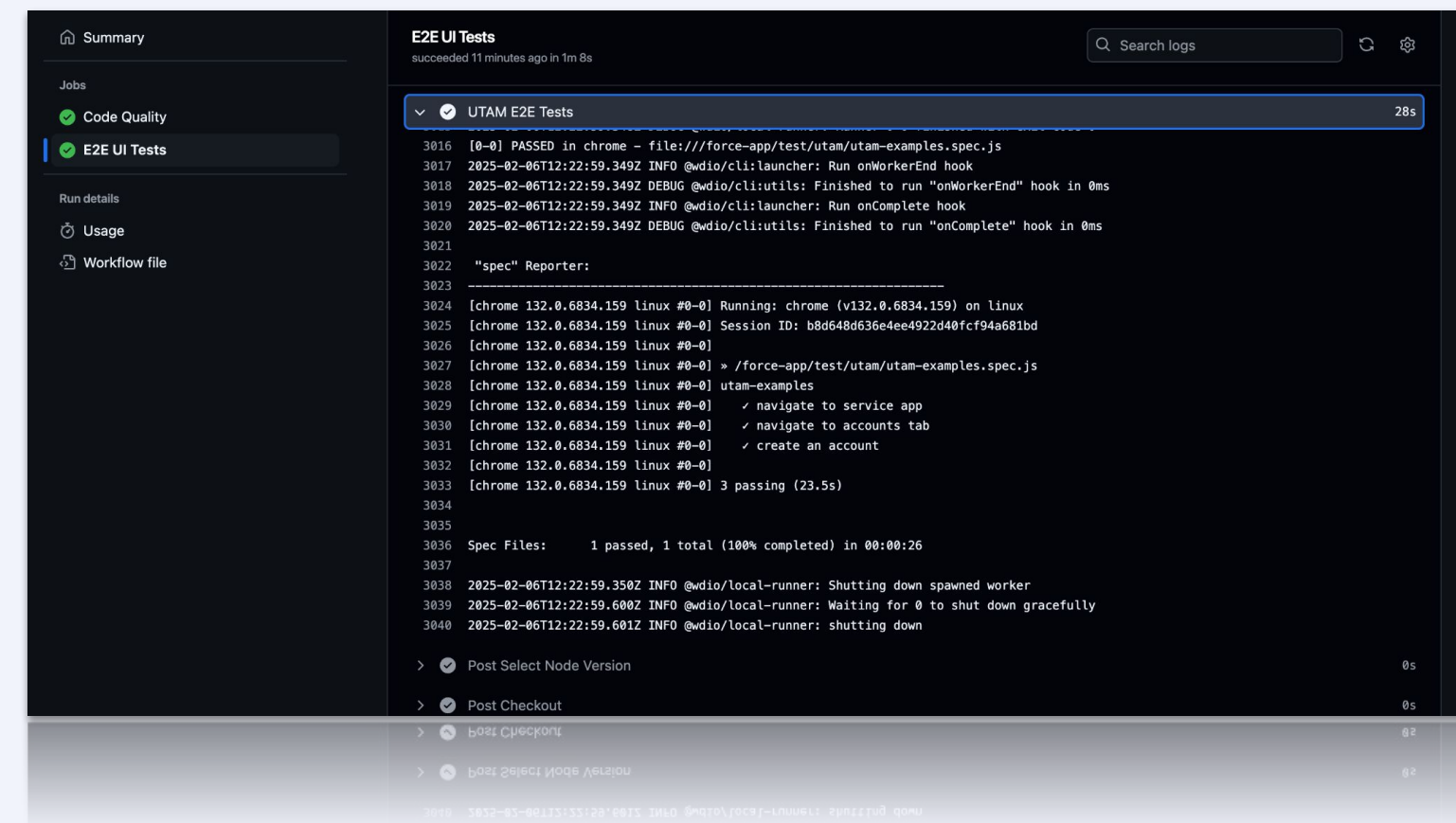
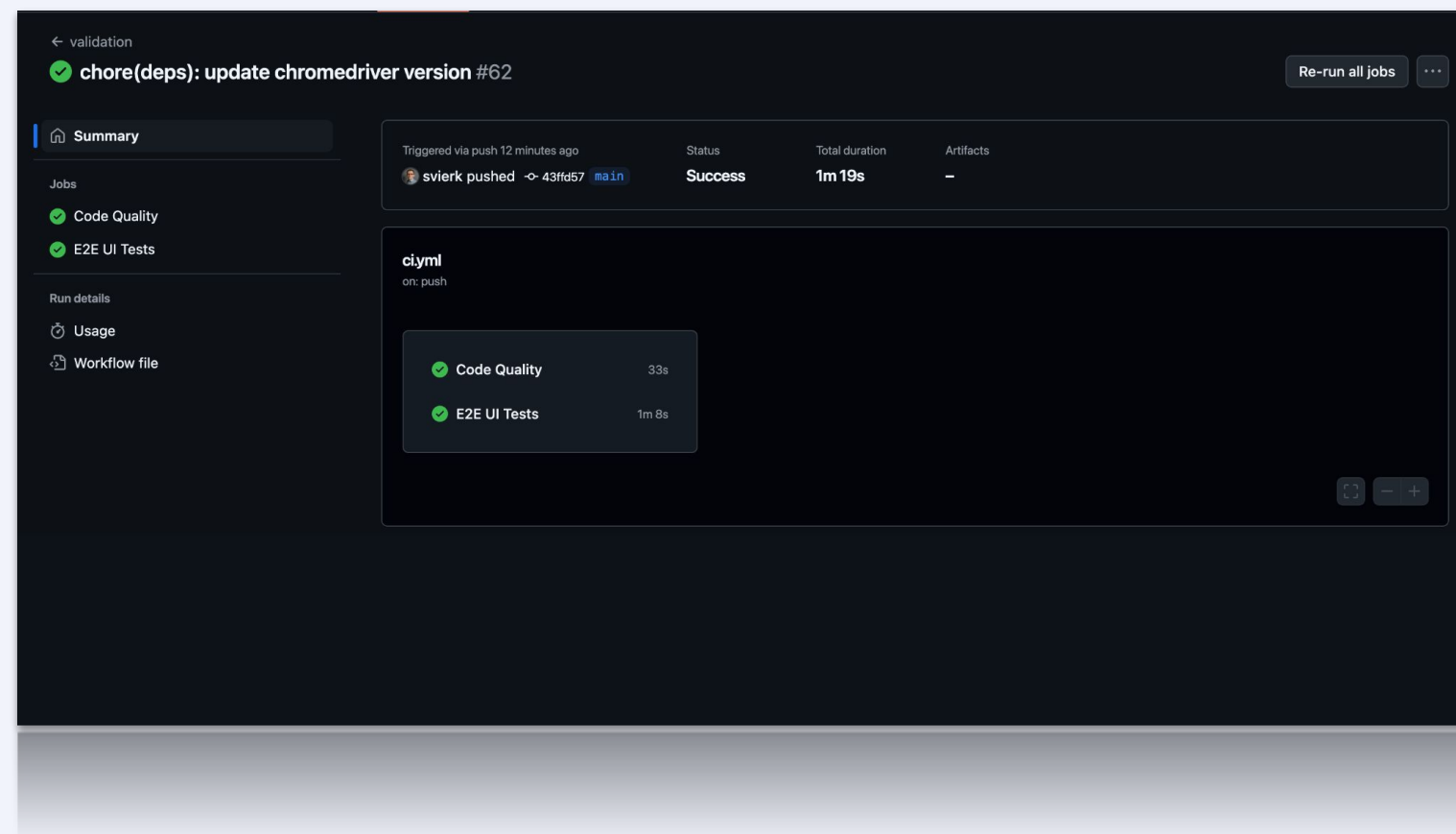


# UTAM E2E Tests Act as CI/CD Quality Gate

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Automated quality gates for reliable and efficient deployments

## Ensuring High Standards and Streamlined Deployments



**Focus on testing  
your critical  
business  
processes!**



**UNIT TESTS PASSING**

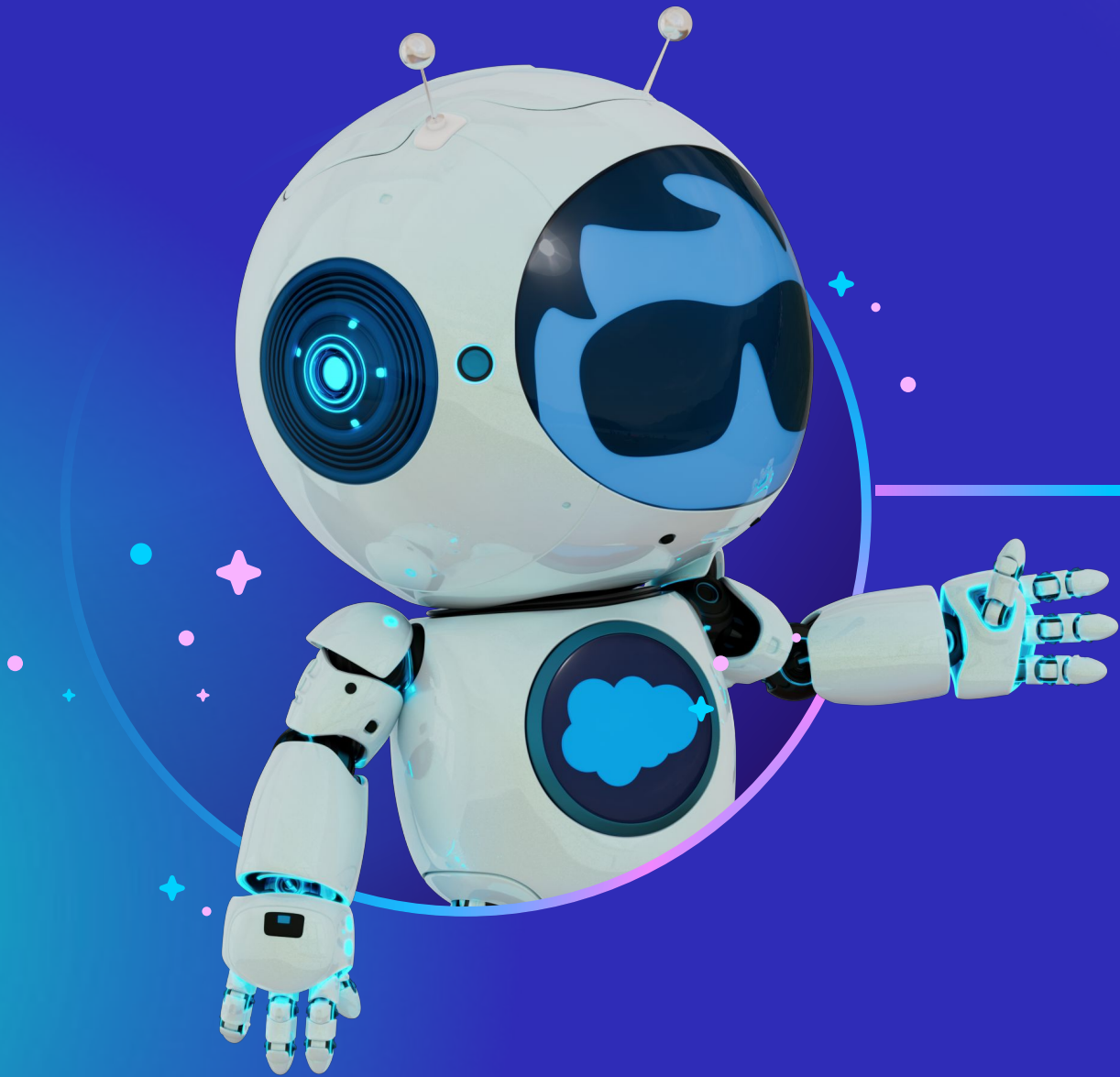
**NO E2E TESTS**

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# UTAM resources



THANK  
you



Q&A

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# Survey slide TBD

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