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# How Sedin Automates

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# Agenda



**Introduction**  
A Test Manager from Software Service Company

**Our Story Of Automation**  
From Coders to Innovators

**Our Past**  
What we were doing earlier

**Steps We Took**  
The change we brought overall in our Testing Services

**Our Innovations**  
Things we built in our journey

**The Results**  
The results we got and current challenges we have

**Where We Stand**  
Our Efforts gaining us more business

**Conclusion**  
How to look at Automation in General at Scale

# Introduction - About Speaker



- ▶ Atmaram - Known in community by nickname ATM
- ▶ Specialize in Automation, Scalability, Performance
- ▶ Maintainer of open-source tool corr
- ▶ Passionate of Technology and writing good code
- ▶ Presented in multiple conferences
- ▶ X / Twitter - @atmnk9, Linked In - atmnk9

▶ At Sedin Technologies I work as Test Manager and take care of entire Testing division

# Introduction - About Sedin



## Who we Are?

- We are a group of passionate individuals
- Since 2006, we've helped businesses untangle challenges, infuse innovation, and move from strategy to execution faster.
- With 5 offices, 500+ Employees, 500+ customers, 1000+ projects we have shaped various solutions



## What we do?

- We do work for Technology Consulting, Salesforce, RPA, Enterprise Content Management, Enterprise Assets Management, Engineering, Digital Services, Data and Analytics
- For all of This Solutions we offer we do extensive testing in both scripted and non scripted forms
- We build tools for leveraging extensively in Testing

# **Our Story Of Automation**

# Our Past

## What We Were Doing?

- 10+ Projects With Testers were going on
- We had a model where Testers were placed on project and they were by themselves to anchor it
- We had not much visibility around possible opportunities and Testing health in each project
- Out of 10+ projects only few were leveraging Automation
- People were mostly busy and working in silo without exchanging much information across projects
- Automation was mostly focused around UI
- We were using only Selenium and other ecosystem tools
- Most of the Designs followed in Automation were from the past knowledge and there was no continuous learning
- The code we were writing was mostly to catch up on development pace without much focus on solidarity
- There was lot of focus on Functional Verification than other sorts of Testing
- We were not context specific for Automation

- ▶ Our customers were of variety of sizes right from Seed stage startups to well established Enterprises
- ▶ Various Ways of Deliveries brought variety of problems in delivering Quality Products
- ▶ For some customers, the initial investment on Test Automation was not feasible
- ▶ For some customers lot of UI Test Automation Was not making sense
- ▶ We used to get surprising news from projects suddenly that people were not doing good
- ▶ Lot of folks struggled to deliver quality code for Automation
- ▶ Lot of the times people were stuck without any help

- ▶ There should be support system created for Testers
- ▶ All Engagements need to be reviewed regularly
- ▶ Investing in Training and Development of people
- ▶ Creating and Investing in Training Resources for Peoples Development
- ▶ Creating and Exploring Alternative Tools for providing solutions Pragmatically



### **SME**

Have each Engagement Supported by SMEs



### **Audits**

Conduct Regular Audits For Each Engagement



### **Leaning**

Train people contenously



### Lab

A Lab for grooming Ideas  
into Solutions



### Demo Apps

A curated Set of Testing  
Resources

**Demo**

# Our Innovations

## Things We Built - State Tester

### What is State?

A State of System Under Test

### How we achieve State?

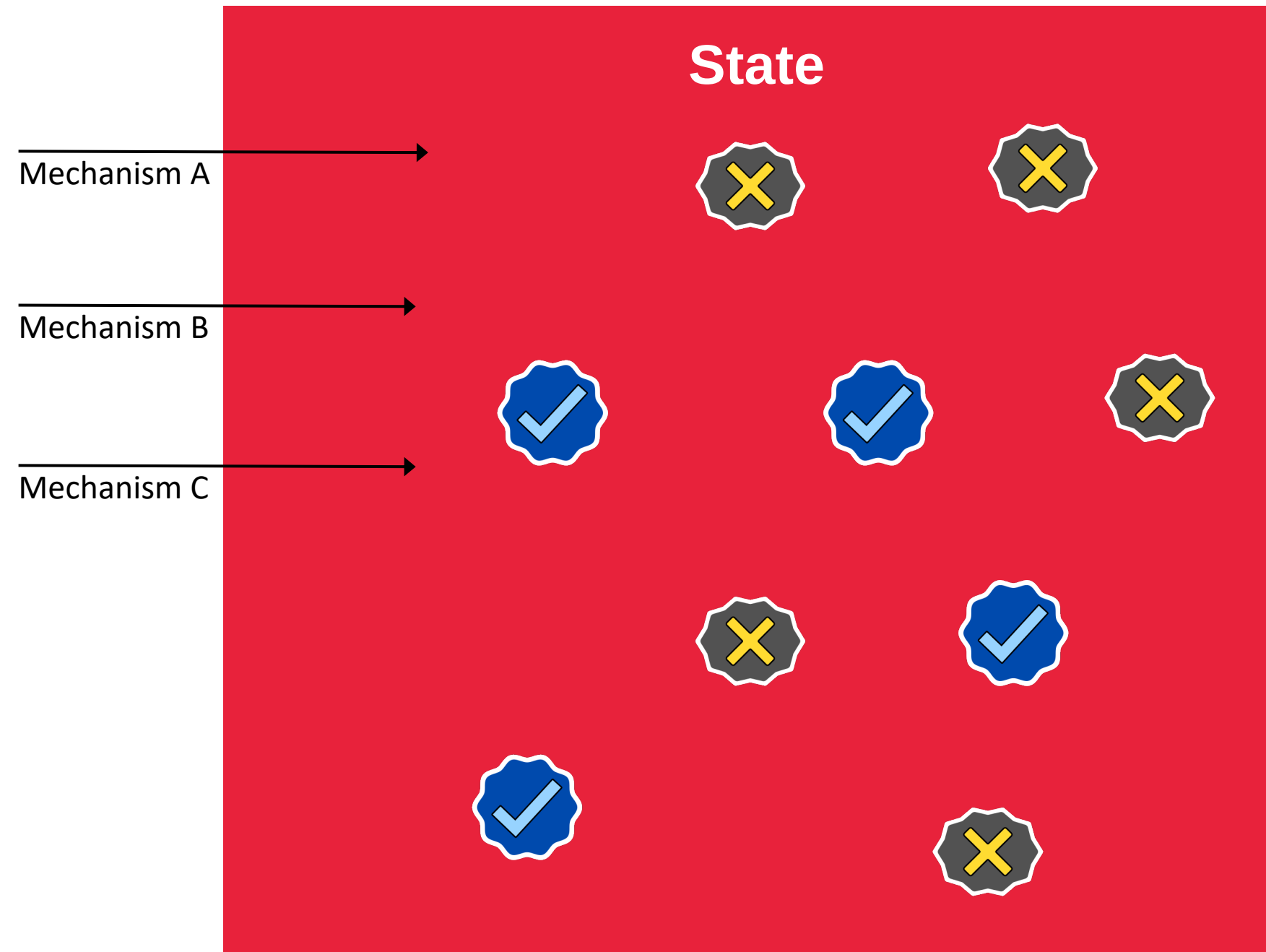
Via Launchers, Which may or may not depend on Some other states.

### Can Same state be achieved multiple ways

Yes We may have as many launchers as possible for achieving state.

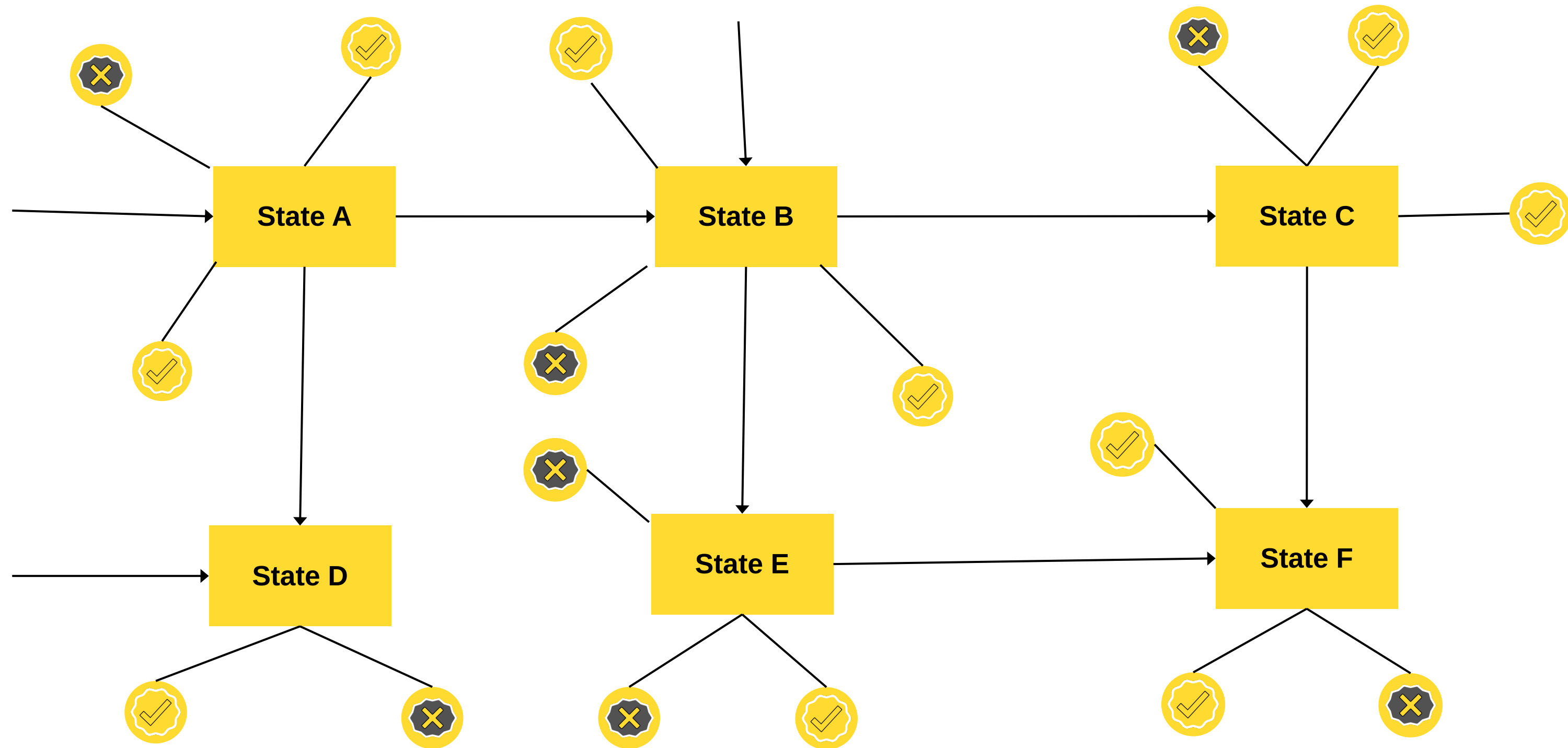
### What we do after we achieve State?

We test the if the State We are in is appropriate for the validations associated With It via checks



# Our Innovations

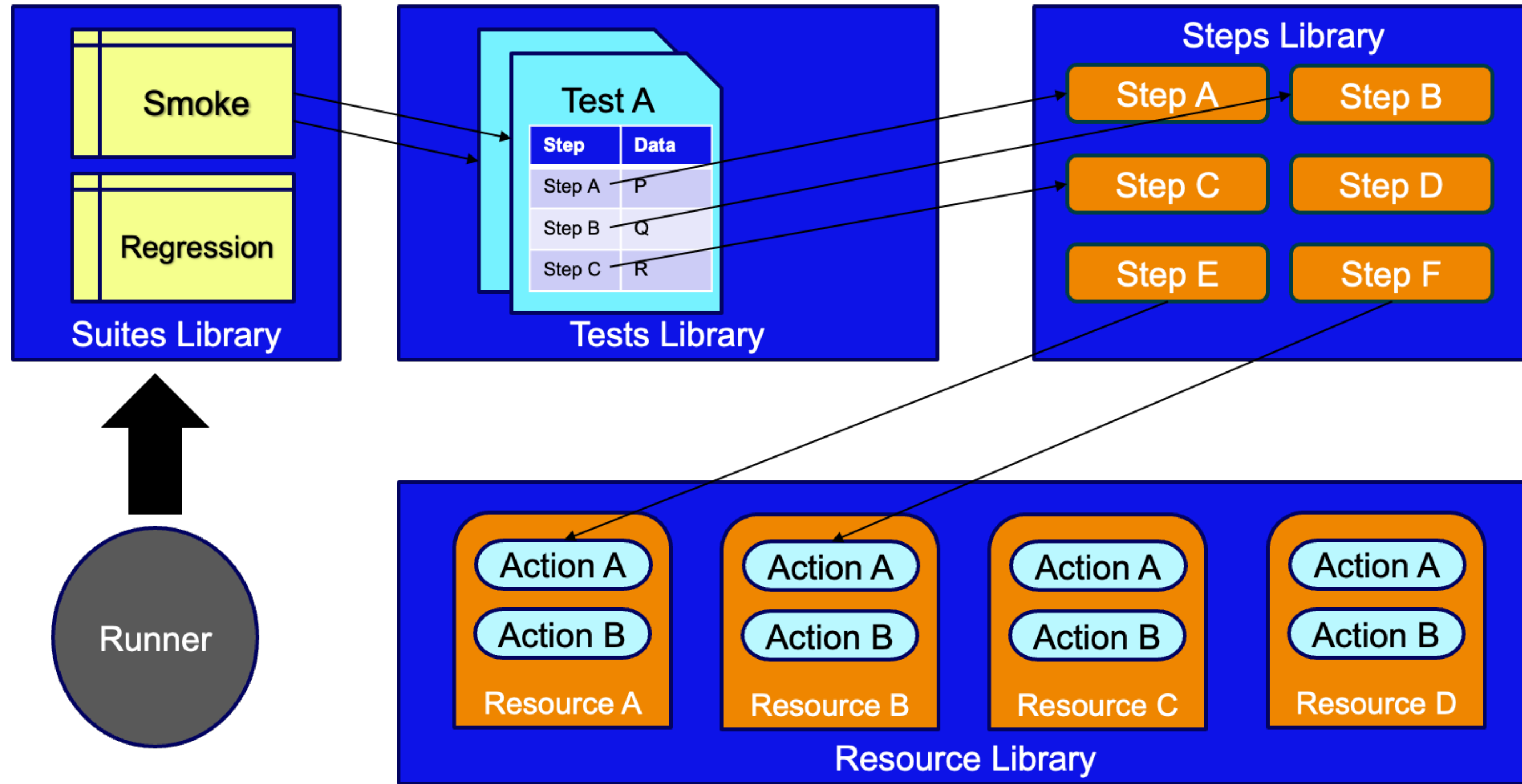
## Things We Built - State Tester



**Demo**

# Our Innovations

## Things We Built - Sed Test



**Demo**

- ▶ Well established new projects
- ▶ Existing projects got well aligned
  - ▶ By Refactoring of code
  - ▶ By Introducing new tools
  - ▶ By Introducing new practices
- ▶ Training and Learning On Bench is helping people to be prepared for projects
- ▶ On Project Learning is helping people to align their efforts with expectations
- ▶ Our new innovations are helping us to provide pragmatic solutions at various engagements

- ▶ People are not used to continuous learning habits
- ▶ We have a very less number of SMEs right now hence we are Hiring
- ▶ Some of our SMEs are also working as full time contributors on projects
- ▶ Our Labs innovations are yet in early phase of development
- ▶ We are yet to solve some difficult problems for our innovations
- ▶ Our demo apps are pretty basic hence we need to work on extensive set of resources

# Where We Stand?

Our Efforts Gaining Us more Business

**Jan-2023**

We created our first  
Demo App

**Apr-2023**

We conducted  
Bootcamp and Created  
more demo apps  
We won One new  
Customer

**Jul-2023**

We created State  
Tester, Created a  
program for Learning  
and Development  
Placed more than 6  
new Testers on Projects

**Oct-2023**

We won One more new  
Client  
We created Sed Test,  
Placed more Testers on  
Project

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# Conclusion

How to look at automation in general at Scale

Across multiple projects a same strategy cannot work for Automation

Strategy for Automation at project should be context specific

People across Organisation should be supported with all resources they need

People across Organisation should be mentored and trained continuously

We also needs to invest in to building things for customized solutions



# Thank you!

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