

Mentoring (التوجيه)

Session (4)

1/4/2021

7:30 PM (Cairo Time)



Technical Skills (DevOps)
Arabic (عربي)

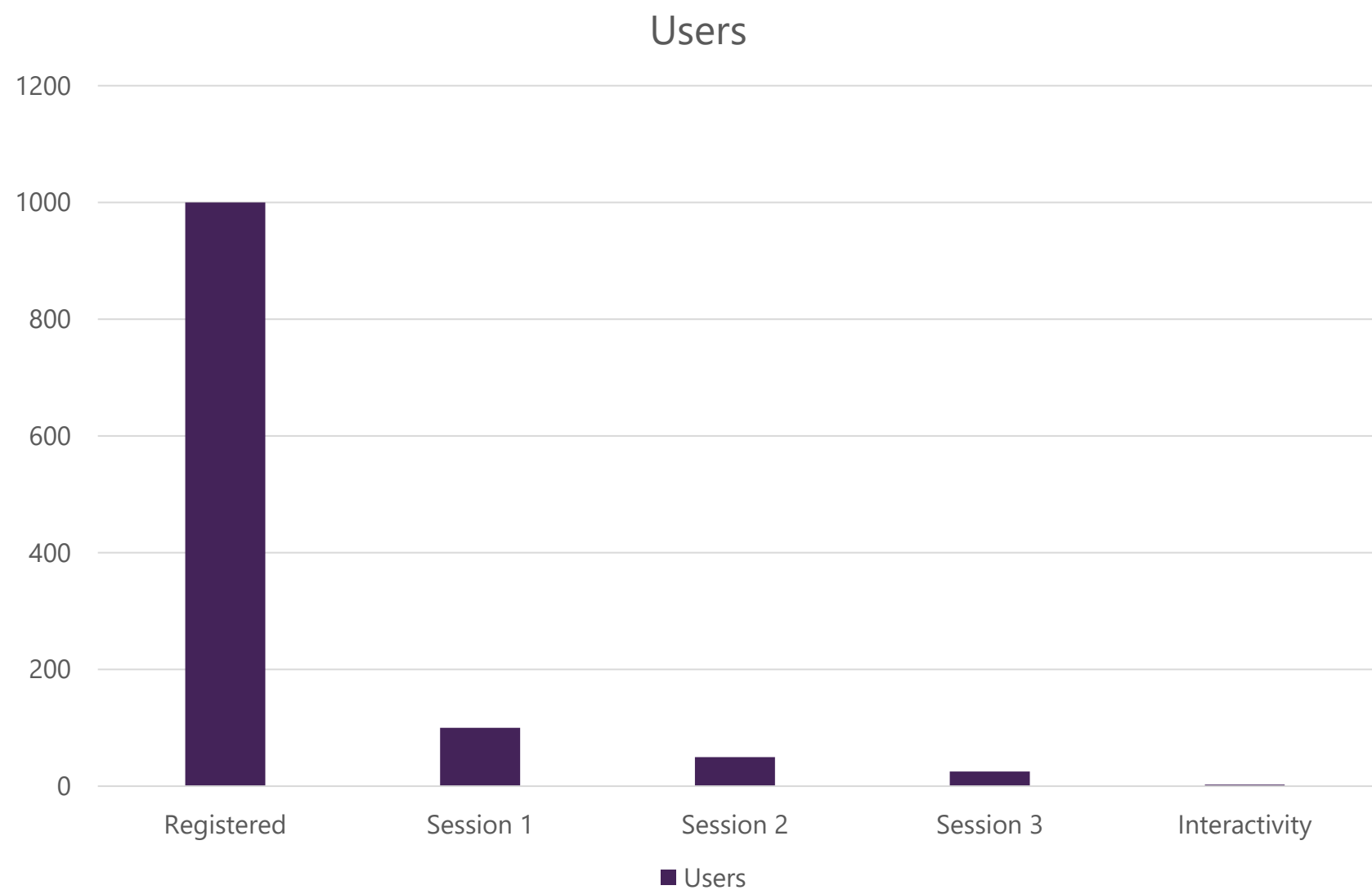
Mohamed Radwan



HashiCorp



Statistics of Registration vs. Interactivity



“

Good Questions and **Interactivity**
make **Good** learning content ”

Mohamed Radwan

In the 1st session, I told you even if the number and interactivity is huge but people don't study or deeply understand, I will reduce the sessions.

So, how about if there is no people at all?!

The Mentoring Program



Soft Skills
3 Sessions



Technical Skills
4 Sessions

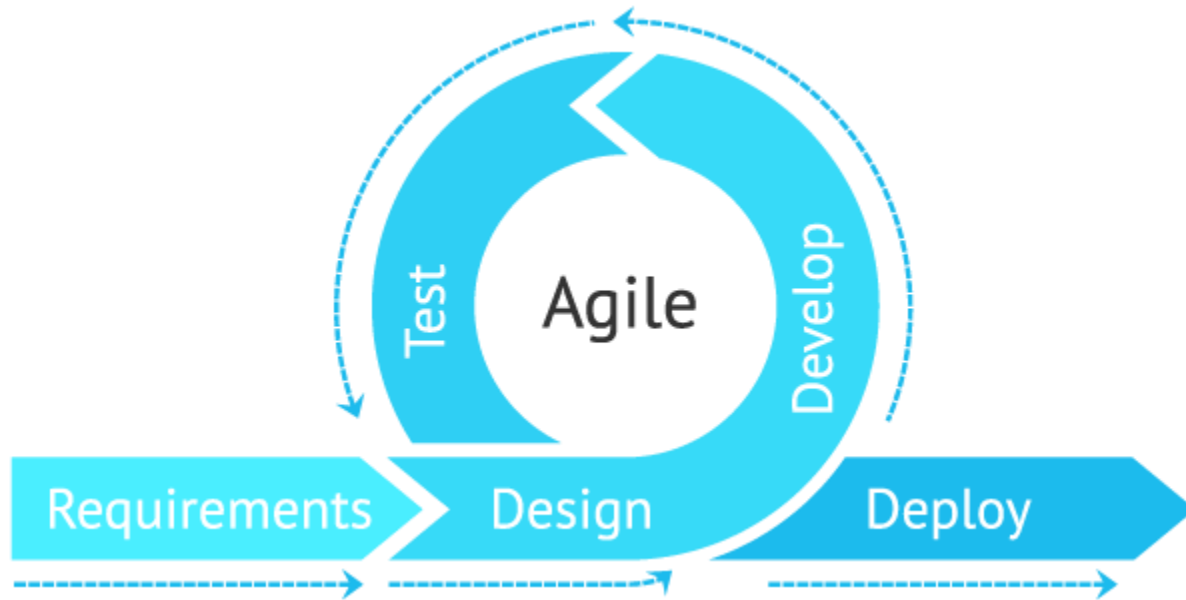
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Implementing Agile using Agile

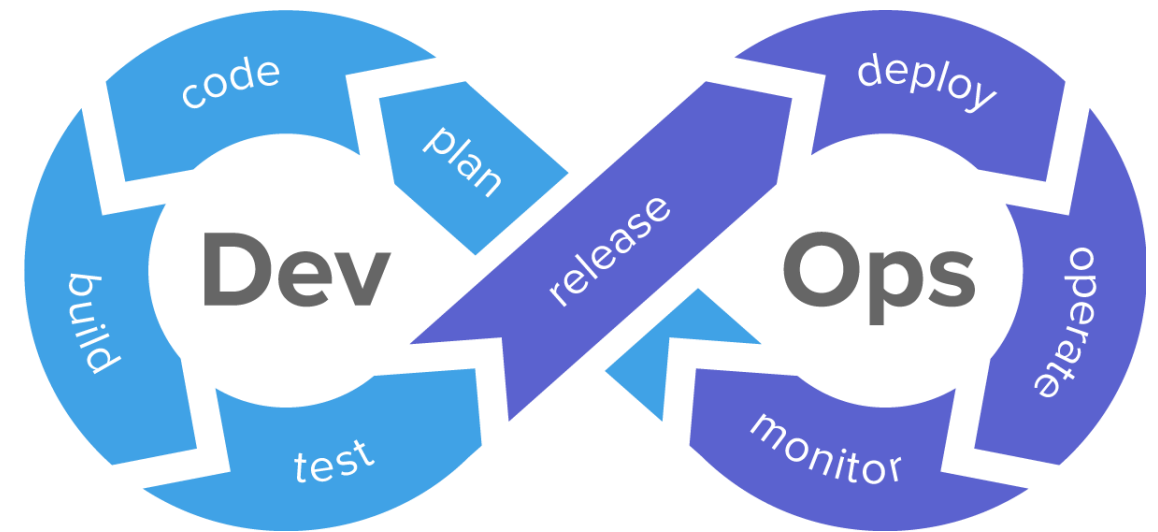
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Mohamed Radwan

Agile and DevOps



**Only Delivering The Needed Value
(Consumed)**



**Speeding The Delivery of The
Needed Value (Consumed)**

If I didn't reduce the sessions, it means I am not following the Agile and DevOps.

A Few Agile and DevOps Mindsets

Fail Fast

Don't delay failures, try to fail as soon as possible as much as possible and learn quickly for the next round.

YAGNI "You Aren't Gonna Need It"

Don't build something because you will need it after sometimes. Only focus to do what is needed for now and will be used later.

Worse is better

It's always doing something less (worse) is better

MVP "Minimum Viable Product"

Always thinking of the minimum functional output

KISS "Keep It Simple, Stupid"

Don't complicate things, it takes time, cost and they may not be even needed

Next session



Soft Skills

Why companies don't hire fresh graduates and juniors? How to overcome?

Ask any soft or none technical questions.



Technical Skills

Based your preparation on the three videos and the three articles.

Ask any technical questions.

Please review old sessions before attending any new one



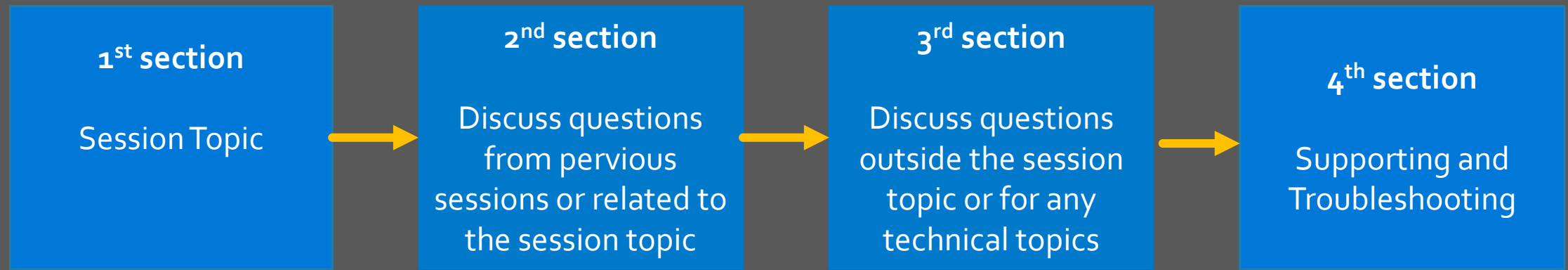
Soft Skills
3 Sessions




Technical Skills
4 Sessions

Goal: Unique content in each session

Overview for sections of the session





The last part of the session will be questions and troubleshooting, please be well prepared.


- Prepare your case and reproduce steps
- Team Viewer ID and Password

Feedback is very important to continue



You 





Understanding Continuous Integration (CI)

Practices you must understand before understanding CI

- Code (sample app)
- App Library
- Unit Testing
- UI Testing
- API/Function Testing
- Code Coverage
- Code Quality
- Etc.

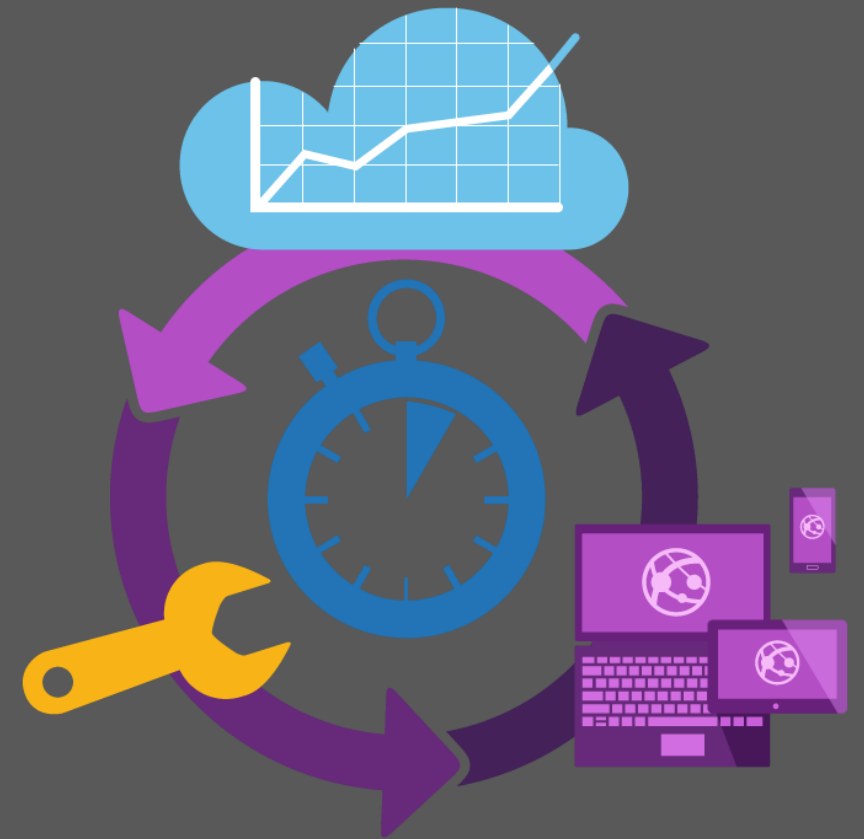
Demo

JavaScript Unit Testing



Demo

UI Testing

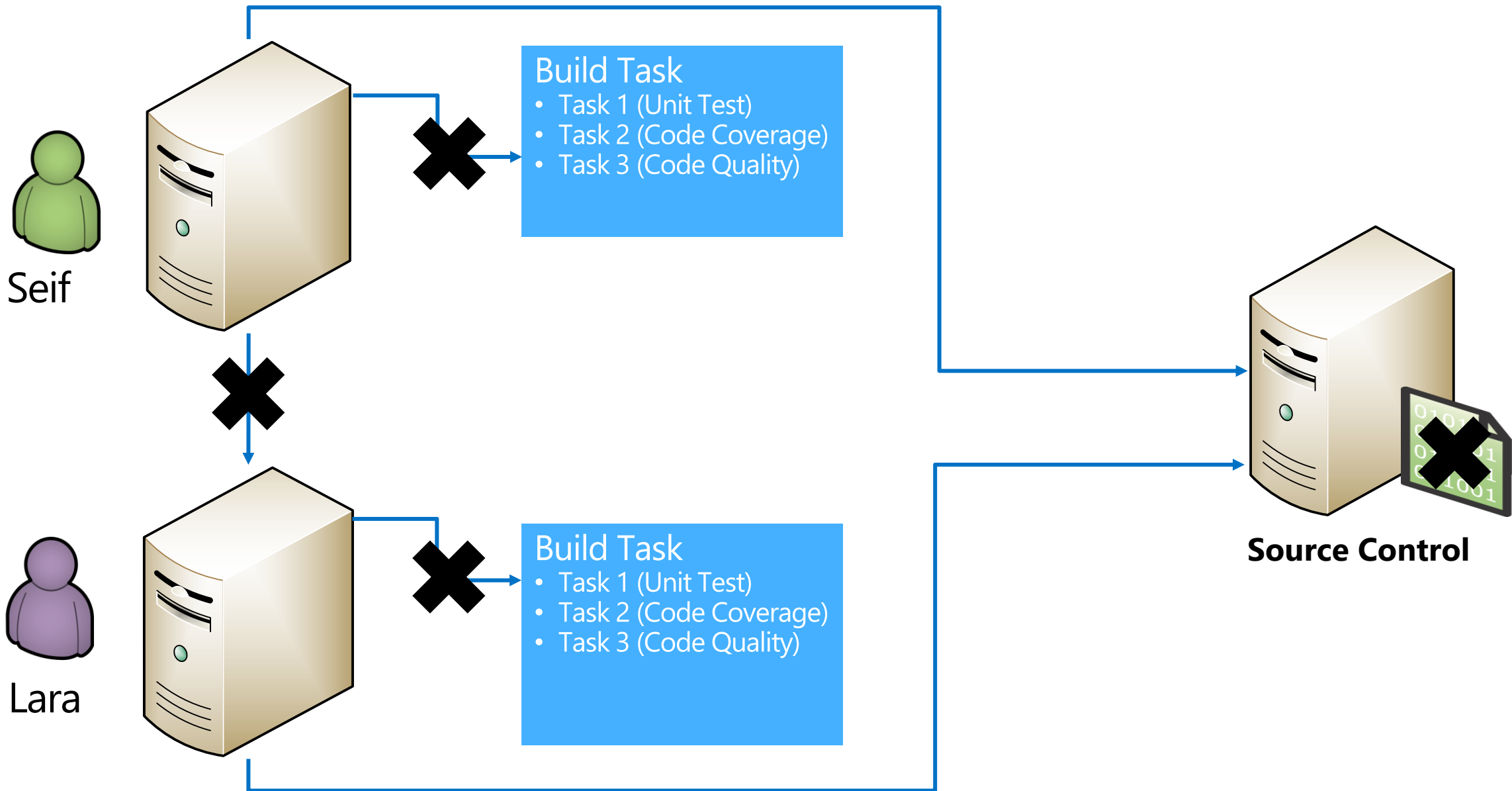




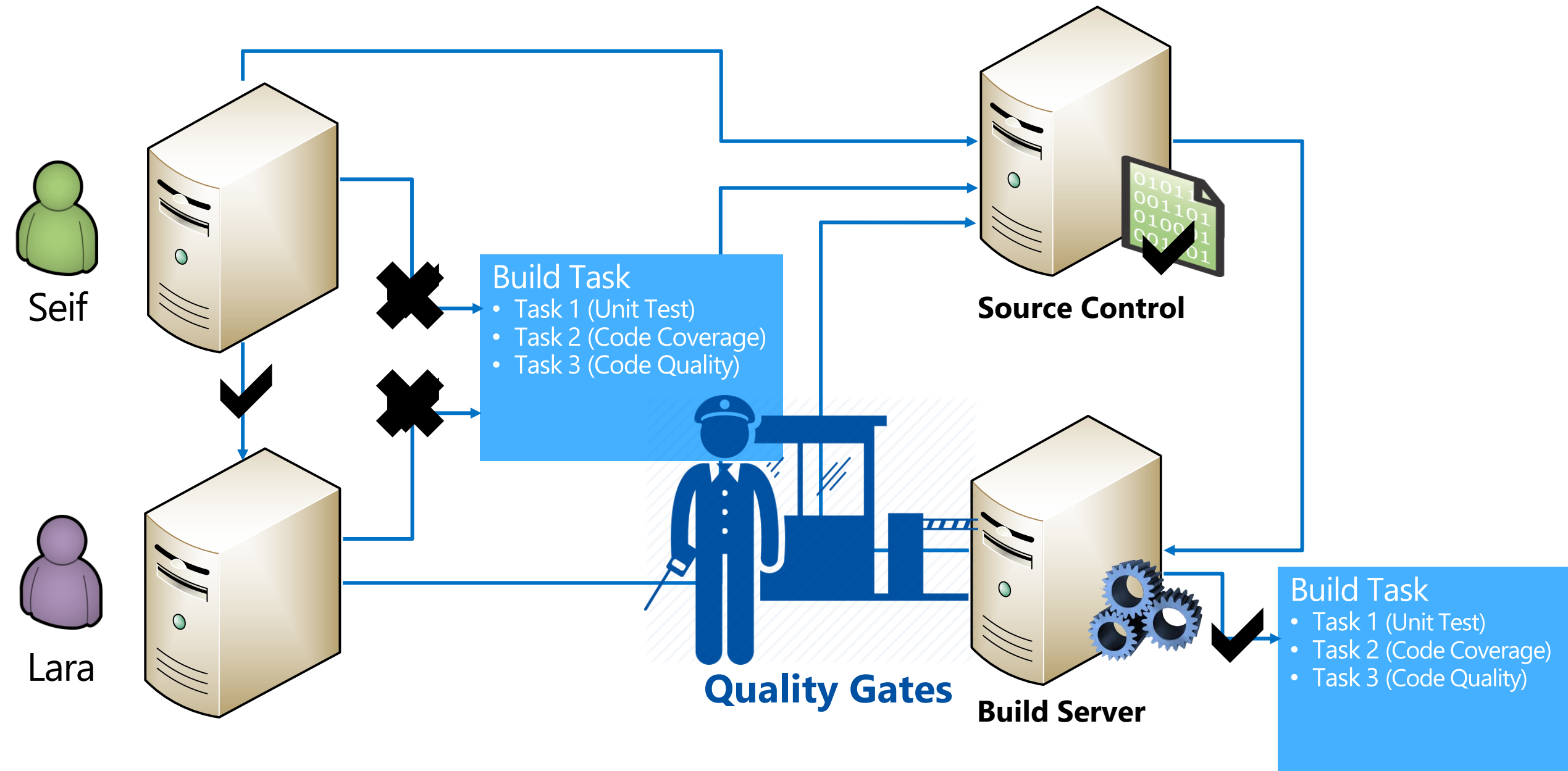
What is Continuous Integration (CI)?

Build **without** continuous integration

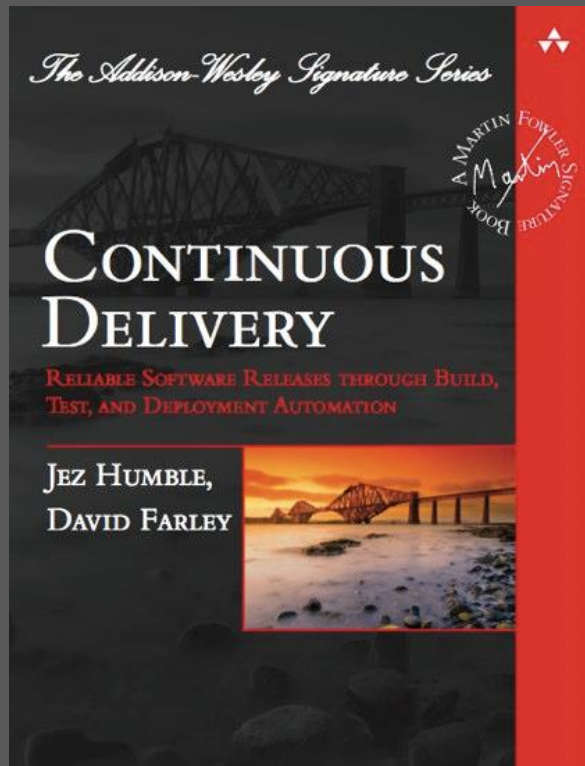
- Task 1 (Run unit test/all must passed)
- Task 2 (Code coverage must be > 60%)
- Task 3 (Code quality/ all methods must has LOC < 10)



Build **with** continuous integration



Principles and Practices of Continuous Delivery



- 8 Principles of Continuous Delivery
- 4 Practices of Continuous Delivery

4 Practices of continuous delivery

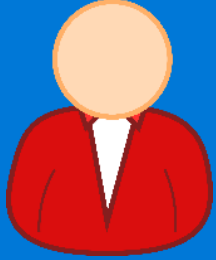
1. . Build binaries only once.

2. .

3. .

4. .

Software Development and Delivery Activities



Dev

```
while( n < (docum  
{  
    n++;  
    calc = ev  
    i++
```

Code



Build



Unit Test



Package



Provision



Deployment



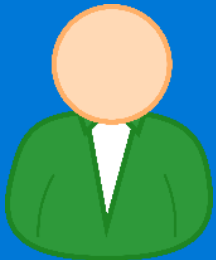
Deploy



QA



Test



Ops

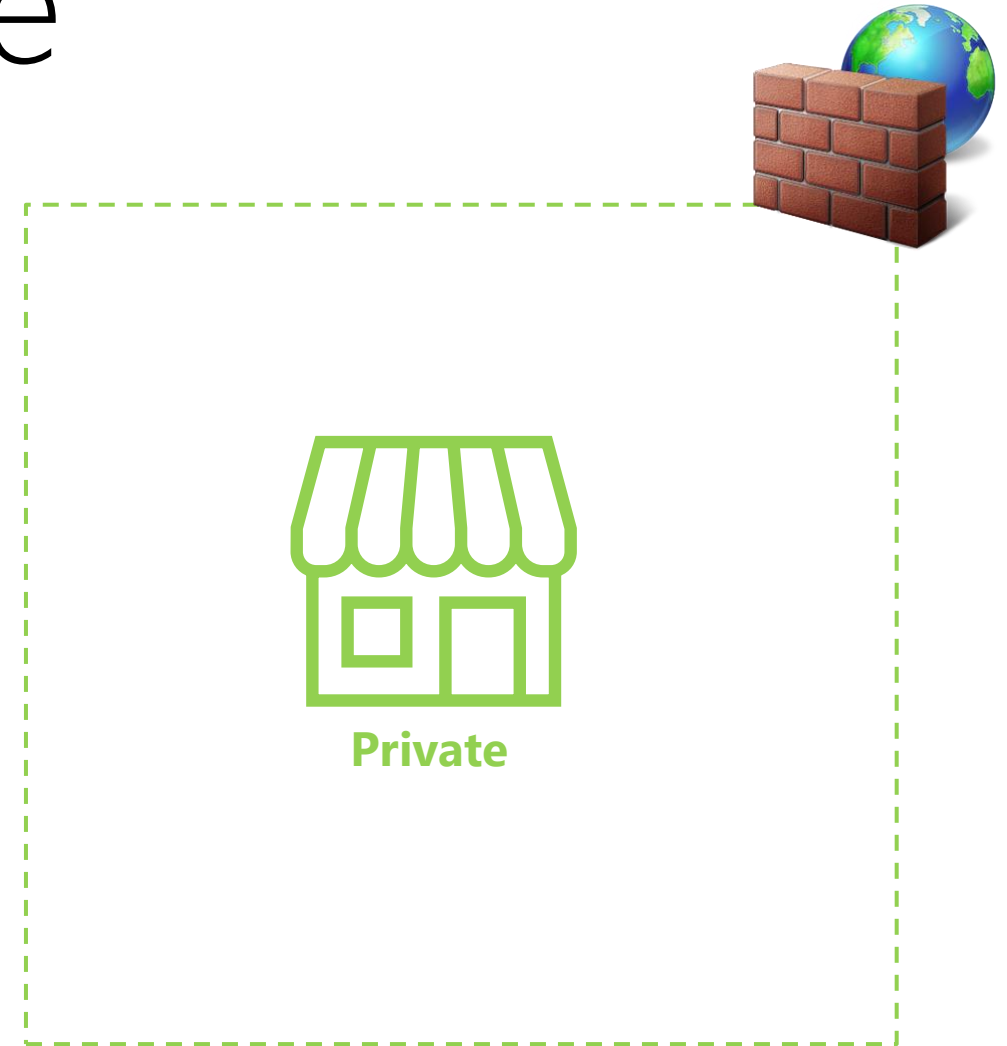
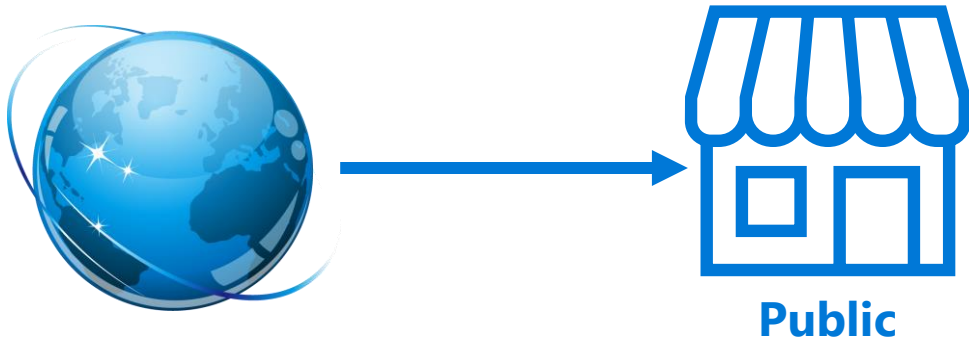
Package Management



Package Management Lifecycle



Public vs. Private store



Examples store/marketplace tech



Platforms for the store/marketplace



Azure Artifacts



JFrog Artifactory

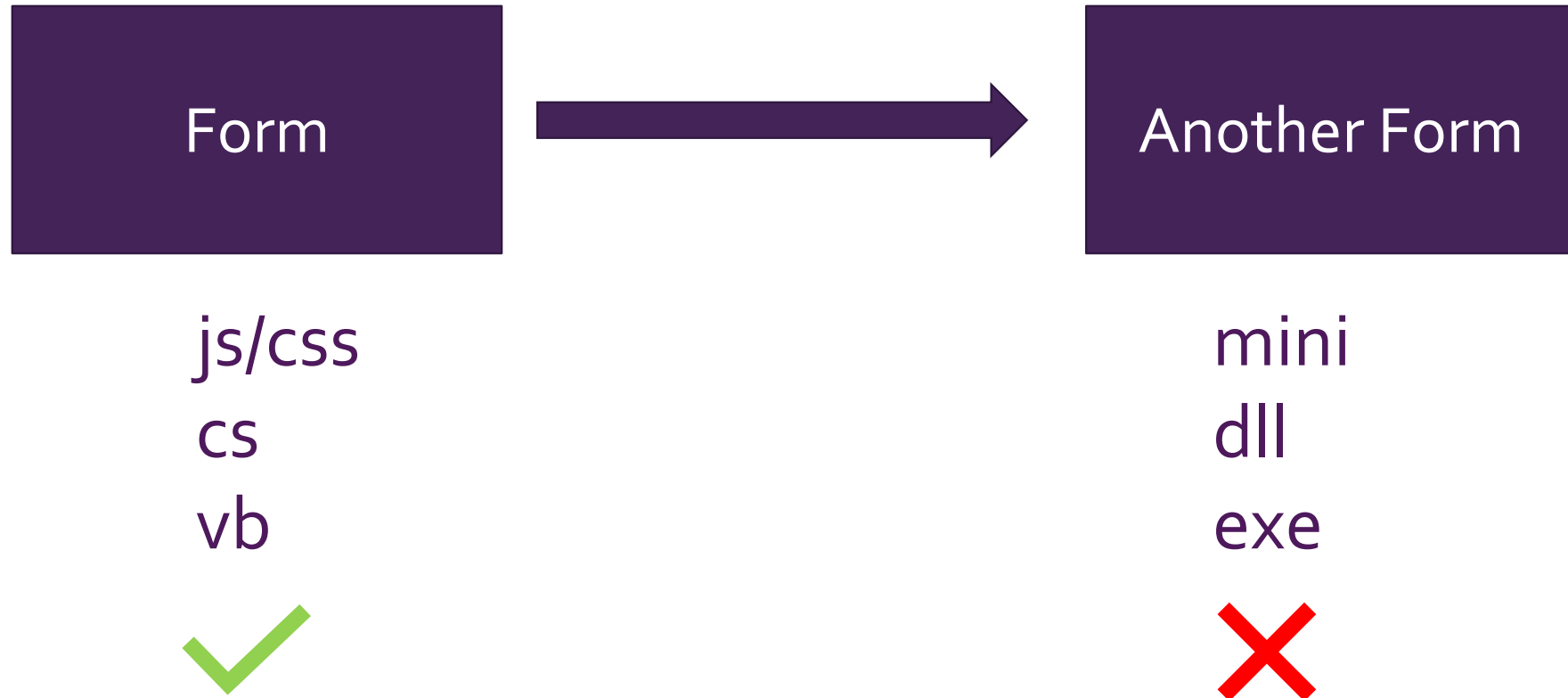


Nexus



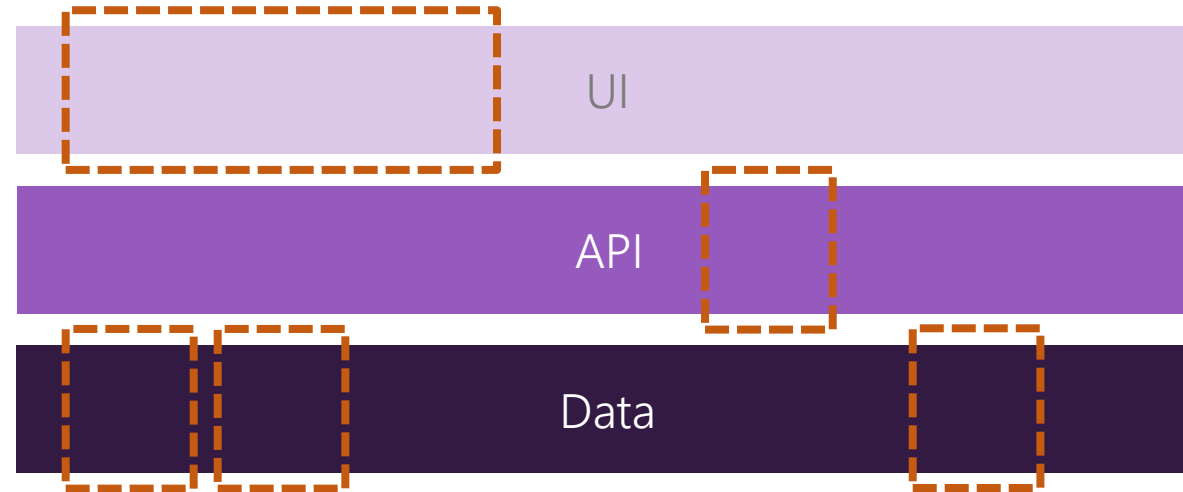
ProGet

Changing (transformation) the form of files

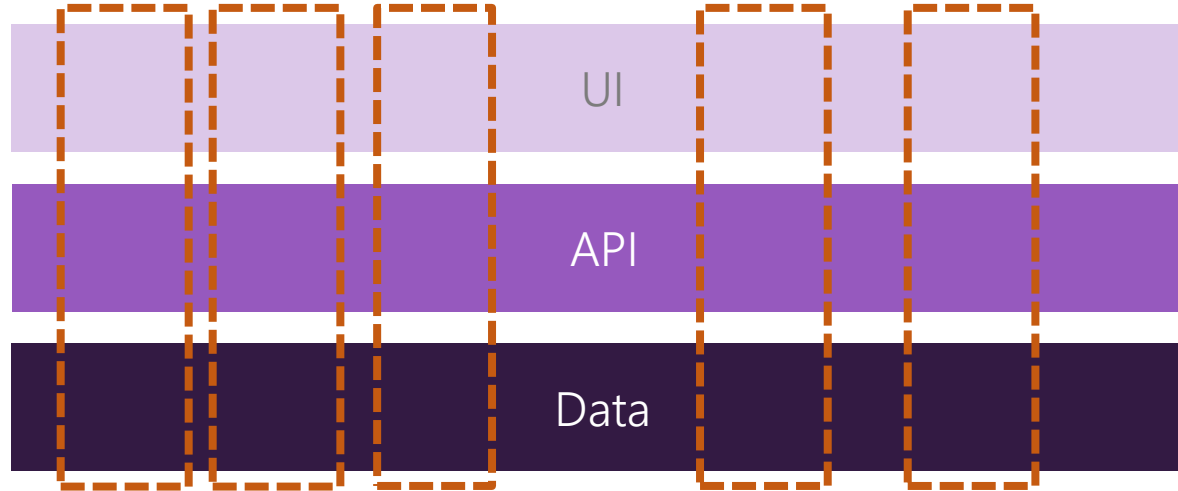


Do you undersrand now, why you don't put them in version control?

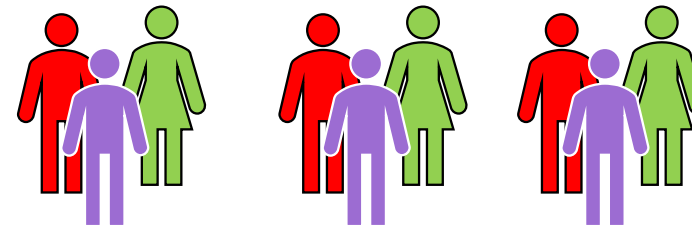
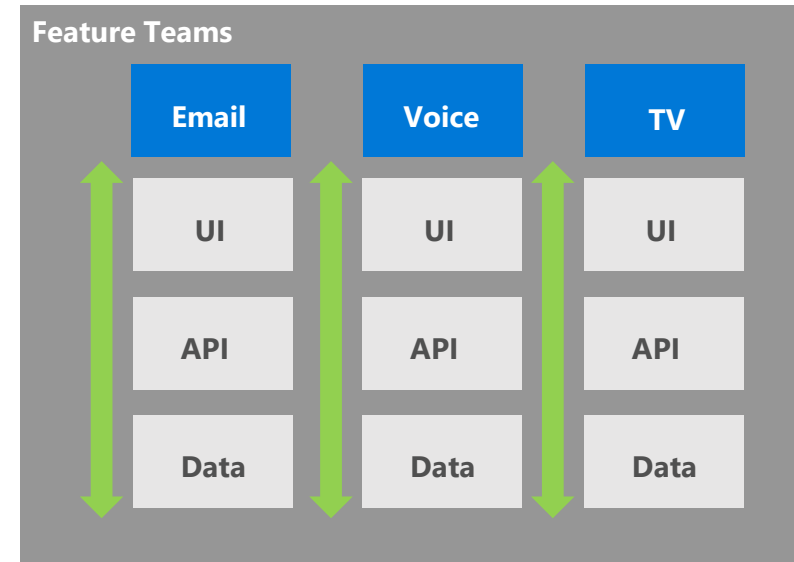
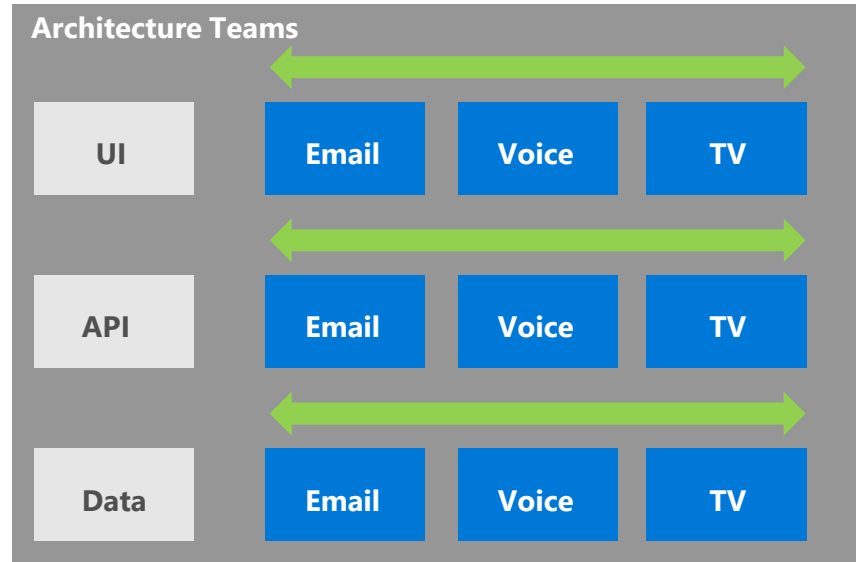
Instead of Horizontal...



Architecture went for Vertical



Architecture Teams vs. Feature Teams



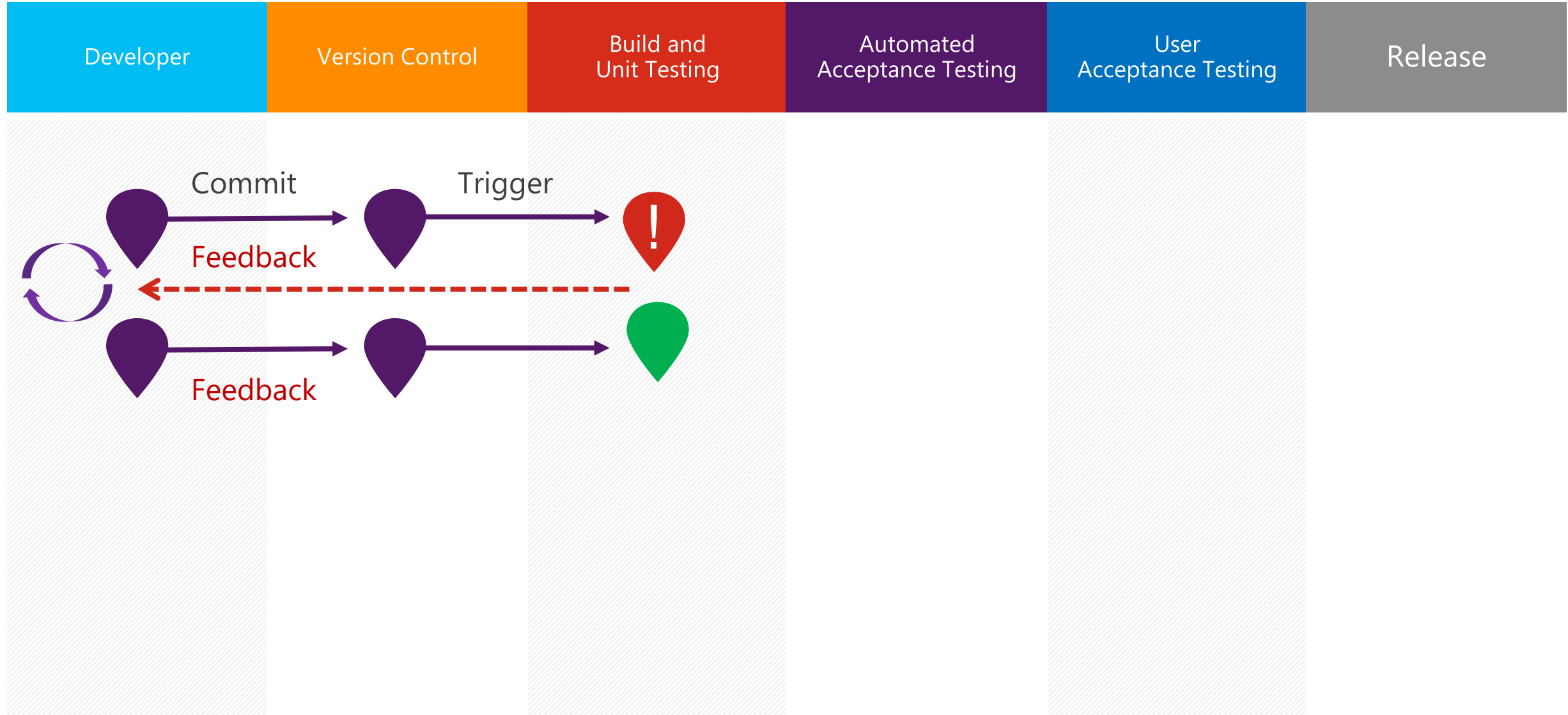
Feature Teams working together



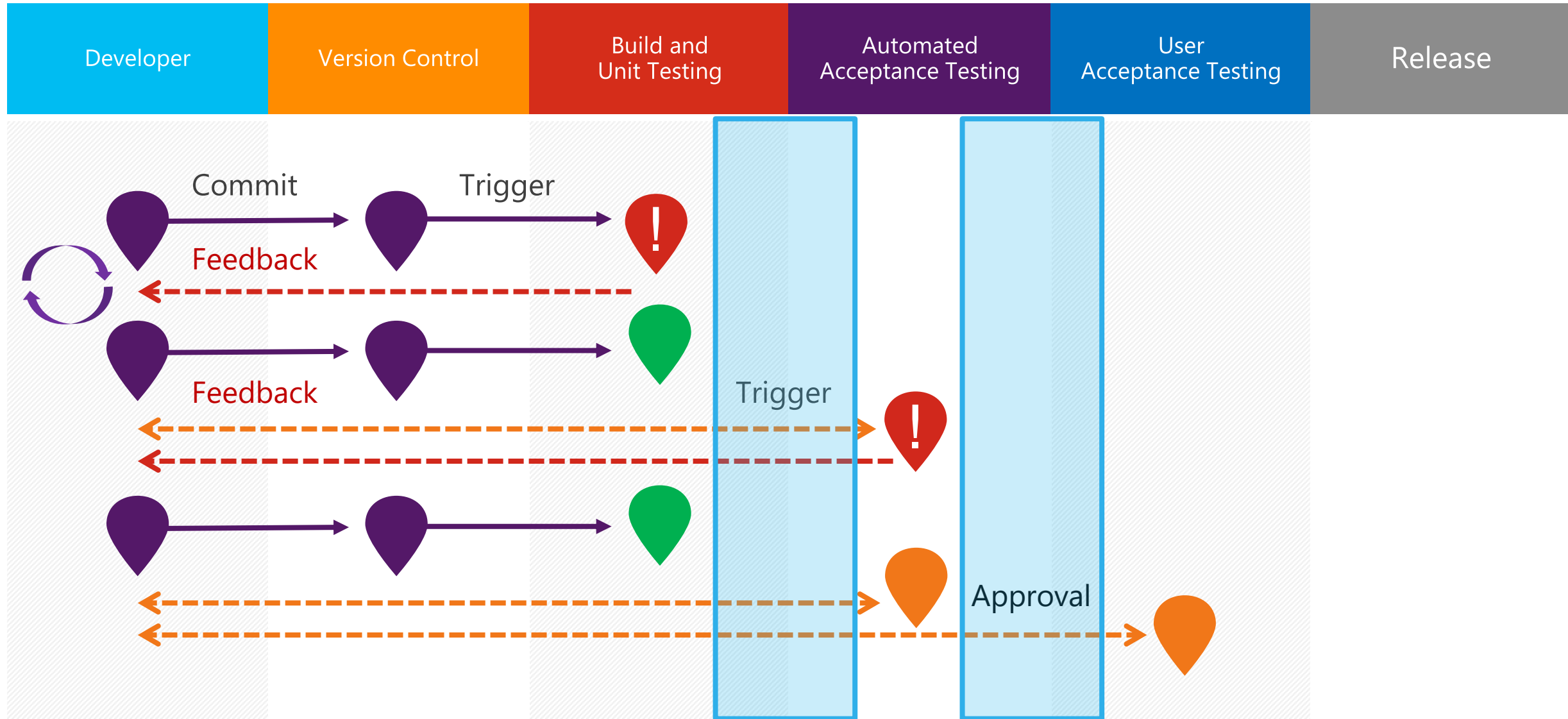
Quality Gates

- Unit testing
- Code coverage
- Code quality metrics
- And many many others

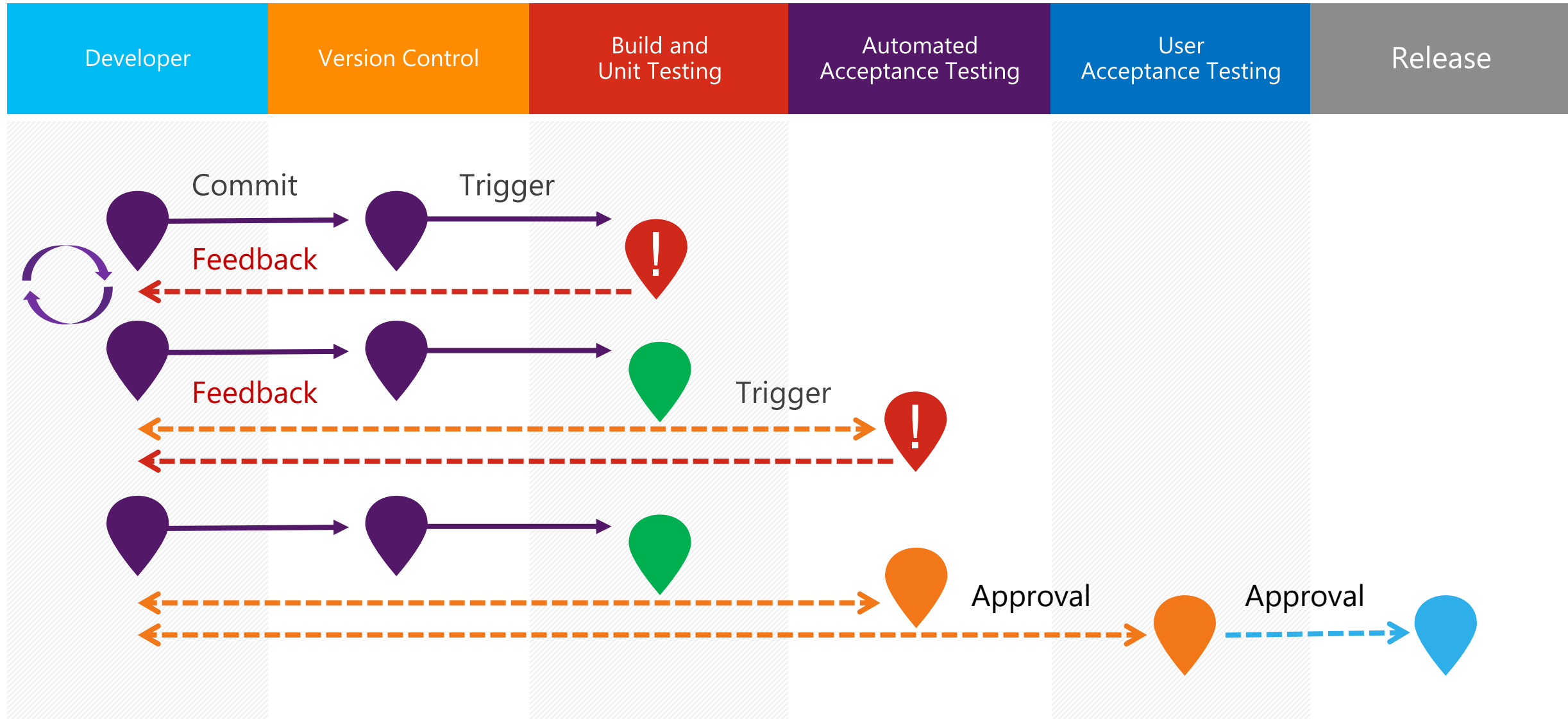
Continuous integration (CI)



Continuous Deployment



Release Management

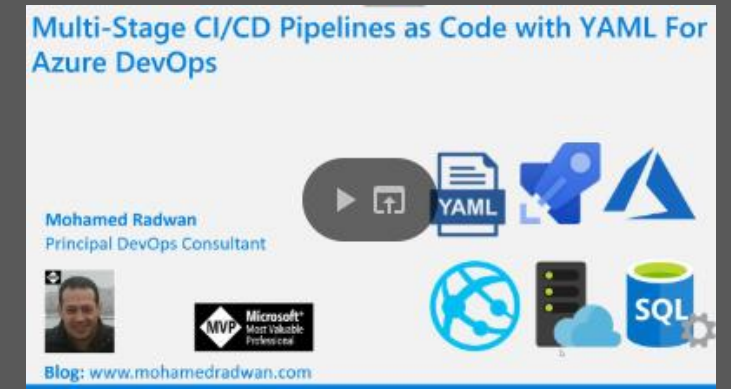




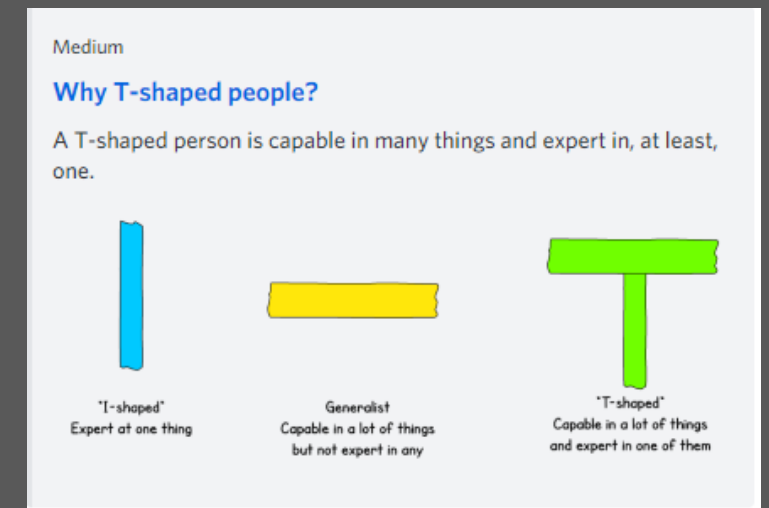
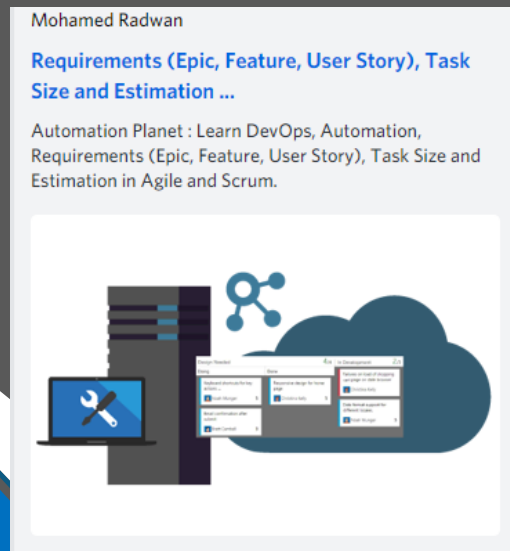
Questions/feedback from the
previous session?

Next session material

Videos



Posts



Next session checklist

- Apply and practice everything you learned in this session. ✓
- Any questions/problems, report them on GitHub as issues. ✓
- Well prepare/study the material of the next session. ✓
- Well prepare your questions/problems of the next session. ✓

Feedback and questions



Amateurs Anonymous

جمعية الهواة المجهولين

مرحبا بك في جمعية الهواة المجهولين
(AmateursAnonymous.org)

الأسئلة الشائعة	معلومات أخرى	أمثلة على المبادئ	الاجتماعات	نبذة عن الجمعية	مبادئ الجمعية
					



Thank you!

شكرا