Development Tips

CSSE6400

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May 16, 2022

What did we *learn* from the cloud assignment?

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Answer

Cloud development is *painful*?

How can we make this *less* painful?

Some ideas

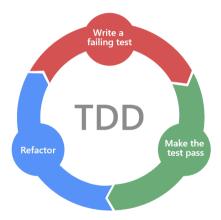
- 1. Gain confidence through *testing*
- 2. Automate what you're repeating
- 3. Tighten feedback loop as much as possible
- 4. Log and monitor what you can

Gain confidence through *testing*

The testing elephant in the room

Test-driven development

TDD in theory



What do you primarily get from TDD?

1. Regression tests (confidence)

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- 2. Small isolated components

Do you have to use TDD to get these benefits?

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Answer

No.

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Answer

No. But it can make it easier.

When should you write a test?

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Answer

Whenever you are checking manually something often

Checking the endpoints your API.

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- Checking a feature in the frontend of your interface.

Automate what you're repeating

Running tests.

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Tighten feedback loop as much as possible

Containers

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- Local database (docker-compose)

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- Local cloud services (e.g. S3)

Log and monitor what you can

Refer to week 9 content

Tip

Enable CloudWatch on EC2

Aside

Environment variables

References

[1] Marsner Technologies.

Why test-driven development (tdd).

https://marsner.com/blog/why-test-driven-development-tdd/.