## **Development Tips**

CSSE6400

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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

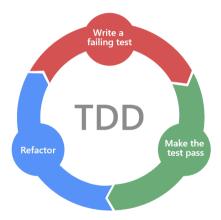
- 1. Gain confidence through *testing*
- 2. Automate what you're repeating
- 3. Tighten feedback loop as much as possible
- 4. Log and monitor what you can

# 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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- 1. Regression tests (confidence)
- 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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- Starting locally and running tests locally.

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- Deployment and running tests.

Tighten feedback loop as much as possible

Containers

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- Local database (docker-compose)

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- Local database (docker-compose)
- 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/.