



# \_nology

TALENT IN **TECH**NICOLOUR

Testing

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# Learning Objectives

- Unit Testing
- Understand why we test

# Why

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Documentation

Confidence in code

Deployments/Pipelines

Unit Testing



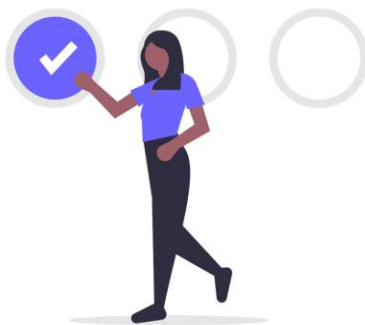
E2E Testing

Integration Testing

[Mural](#)

# Unit Testing

- Tests individual units/parts/modules.
- Doesn't test how the parts integrate/connect
- Jest (available in npm)
- Not needed in Production/Live, so it's a dev-dependency
- ... Any drawbacks?



# E2E Testing

- Tests everything as if it were a user
- Imagine testing all the "units/modules/pieces" of the code together
- Cypress
- .. Any drawbacks??



# Dev Dependencies

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- A dev dependency is a dependency that our application only needs during the development stage (when we are working on it)
- An example of this is 'jest'... which is a testing library for javascript
  - This is only required for development as this is where the testing is done. Once our application is live we are no longer testing it... this should already be done.



# Installing Dev Dependencies

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- **npm install <package-name> --save-dev**
- For packages/modules that we want in our project but only for when we are developing, not in our production app
  - E.g. Jest/Enzyme (testing), Gulp (compiling + more)
- Will create a new entry in our package.json
- **npm install --production**
  - Will only install dependencies (NOT dev)



# Let's go!

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**Lets get testing....**

