

What is Unit Testing?

- Unit testing is a software testing method that isolates the smallest unit of code.
- It follows a 3 point structure:
 - Set-up test
 - Call test method
 - Assert
- Testing has morphed into a simpler process over the years. There are many tools available, but for functional flexibility, a combination of tools are commonly used.

The libraries and frameworks used for unit testing across libraries.

- [Jest](#) - JavaScript testing framework created by Facebook (has strong support for React)
- [Pytest](#) - testing framework for Python
- [Karma](#) - browser based code testing

Examples of Technical Interview Questions

- What is a good Unit Test?
- How would you describe testable code?
- What are some unit testing libraries you've used?

Vocabulary

Words you may hear in the job or work environment

- Mock
- Stub
- Spy
- Jest
- Jasmine
- Karma
- Enzyme
- Rspec
- Rake
- pytest

Live Coding Demo

- Creating a sample test with Jest
- Structuring tests for a React App
- Writing a test for an Express App

Exercise

- Add testing to a back end project.
- Add testing to a frontend project:

<https://docs.google.com/document/d/1RGeIJBmWEBVPpRQddVcxx9YzAvKtmcS1ZUliTdIyoDM/edit?usp=sharing>

Home Work

https://docs.google.com/document/d/1rGdZyeO_IEHpn_rJt7L6MlkzfOj_pjguNp_nj7dks3gw/edit?usp=sharing

Suggested Reading

- <https://reqtest.com/testing-blog/a-guide-to-excellent-acceptance-testing/>
- <https://www.geeksforgeeks.org/acceptance-testing-software-testing/>
- <https://cucumber.io/docs/installation/>