

Software Engineering





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Motivation



Why is Software Testing Important to a business?





Understands the system

but, will test "gently"

and, is driven by "delivery"



Independent tester

Must learn about the system, but, will attempt to break it and, is driven by "quality"

0.8



Testing



"Software Testing is evaluation of the software against requirements gathered from users and system specifications"



Software Testing

Software Validation

Is process of examining whether or not the software satisfies the user requirements.

Software Verification

Is the process of confirming if the software is meeting the business requirements, and is developed adhering to the proper specifications and methodologies.



Software Testing

Software Validation

- Validation ensures the product under development is as per the user requirements.
- "Are we developing the product which attempts all that user needs from this software?".
- Validation emphasizes on user requirements.

Software Verification

- Verification ensures the product being developed is according to design specifications.
- "Are we developing this product by firmly following all design specifications?".
- Verifications concentrates on the design and system specifications.



Testing Approaches

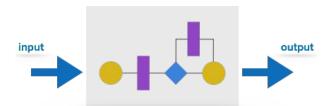
Black-box testing

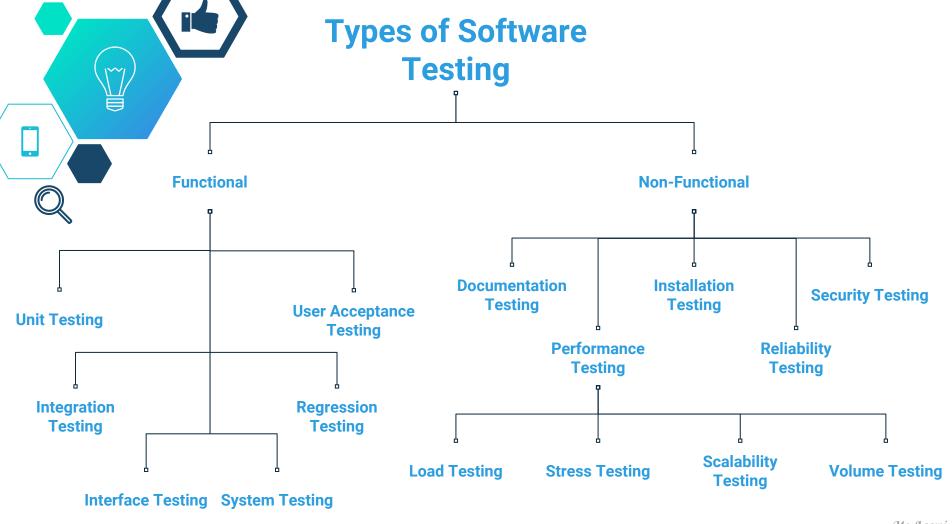
It is carried out to test functionality of the program.

White-box testing

It is conducted to test program and its implementation, in order to improve code efficiency or structure.

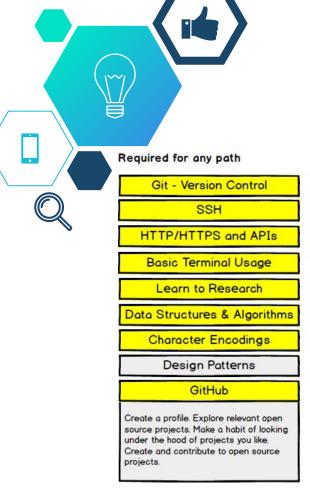


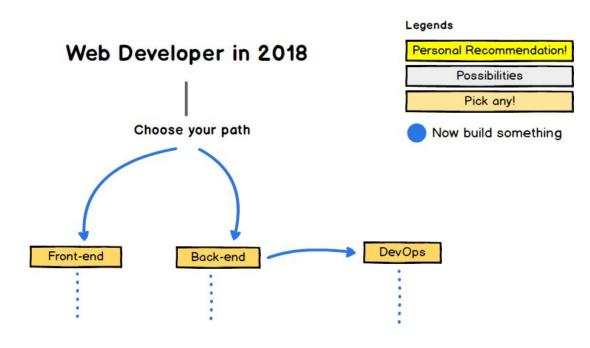


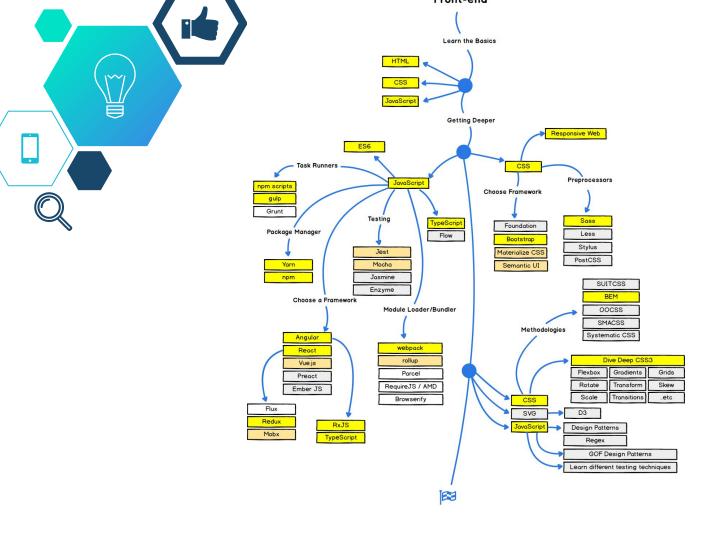




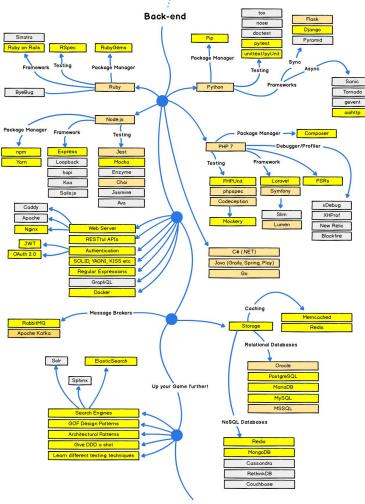
Road Map













Mocha & Chai





Mocha

Mocha is a feature-rich JavaScript test framework running on Node.js and in the browser, making asynchronous testing simple and fun.

Chai

Chai is an assertion library, similar to Node's built-in assert. It makes testing much easier by giving you lots of assertions you can run against your code.



Thanks!

Any questions?

You can find me at:

 Github: https://github.com/MoAgamia/SE-Boot-Camp





References

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