19/02/2023 | Camlin Page | Date /

Javascript testing frameworks:

- One of the strengths of such frameworks is
that we don't have to use comments to describe our
expectations. The text syntax itself becomes expectation - When we write tests those fests are a better alternative to comments in our source code because they specify what expectations our source code is trying to solisfy. tests to check if expectations are met.

- javoscript testing library - Jasmine, Mocha Karma, gunif. - To corite an expectation in some testing framework such as JEST we can use the function that has the expect (concat Strings ("abc", "def")).toBe ("abcdef"); - Testing in javascript lets us verify that the function is behaving in the way we intended. - Testing code in the way ensures three things 1) Conciseness as it is straigh forward and to the point Since there are only two function calls to explain what is expected result. is expected result. 2 Clarity because we know exactly what arguments @ Repeatability as we can run it again and again with some arguments each time. we are providing

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*	Refactoring - Updating code, without affecting the results it produces
1	Testing- Confirming that software works as specific in the software's requirements.  - for UX designer testing might mean & making sure that the website looks and behaves as expected for project manager on a software project testing might mean that a specific piece of software works well with other parts of our system-for a software engineer.  - for a software engineer testing might mean writing code that doesn't break the existing function ality is bug free and sofisfies the requirement cos set out in a given took. bas
2	Types of testing - i) EzE (eze) (end to end) 2) Integration 3) Unit.
2	DEZE - In this testing we need to open our web application in browser and then test it by interacting with the page the same way a user might interact with it.  - Slow and time consuming  - eze testing fromework: 1 Webdriver Is  Of Protractor  (ypress)

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2) Integration testing - It is testing how seprote parts of our apps work together - Faster and cheaper than eze but not unit

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- Integration testing : () React testing library
O (nzyme

3) Unit testing - Is the process of testing the smallest unit of our source code in isolation - Self-contained, fast and tasy to write

Jest: Javoscript testing framework

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Built by Meta

- Beside plain javascript and React code it allows

- Bubel - Type Script

- Support code coverage. -Used to write unit tosts

- Angular

Mocking - Separating code from related dependencies
during testing

- jest have in-built macking function - Facillitates asynchronous code: - Allows snopshot testing.

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*	Snapshot testing - Used by we that there are no regression	eb developers to verify in the Dom.
	TDD - Streamlined process of will satisfy some requireme	
	Requirements failing test	-> Possing test
10	Feature of Before app the app is buit	code to poss
15	Traditional development - Rec	ceive requirements
	(0)	rite code Test
20	Test-driven development (TDD) -	Receive requirements
25		write failing test write to make code test pass
		code passes test
30	Benefits - 1] minimizing regression  2) provides proof  3) Automated tast.	Improve workable
, ,	Documentation	