

Agenda

WEEK 7 REVIEW 01 General Review **SOFTWARE TESTING** 02 Overview DOM 03 Overview **EXERCISES** 04 Demo 05 **PORTFOLIO** 06 Q&A

00 Learning Experience: What to expect from Office Hours

- Review of concepts from the current week module
- Extra resources
- Q&A



Bring your new skills to your organization, through examples from technical work environments and ample prompts for reflection.

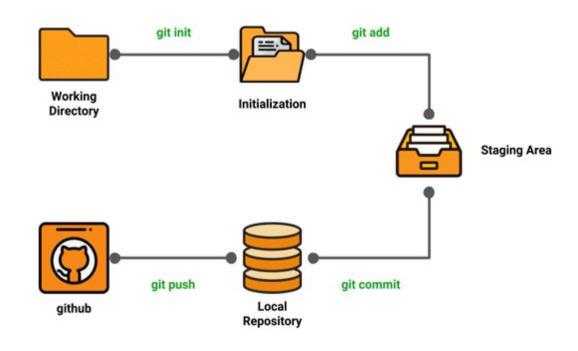


Connect with an international community of professionals while working on projects based on real-world examples.

01 Week 7 Review

- Git Cycle
 - GitHub
- Software Testing
 - Overview
 - Classification and Types
- Document Object Model (DOM)
 - Injecting Js
- Exercises

01 GitHub Cycle



In software engineering,

version control

(also known as revision control, source control, VCS or source code management) is a class of systems responsible

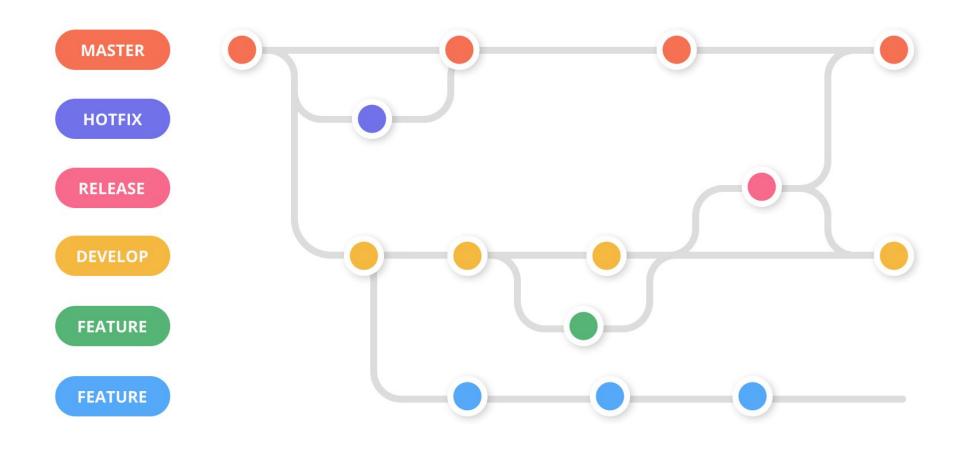
for managing changes to computer

programs, documents, large web sites, or other collections of information.





01 Agile Git Cycle





02 Software Testing

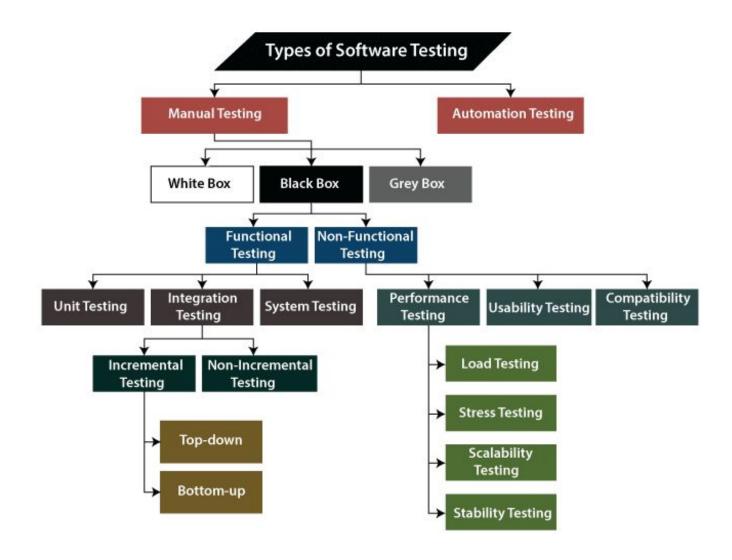
Software Testing is a method to

check whether the actual

software product matches expected

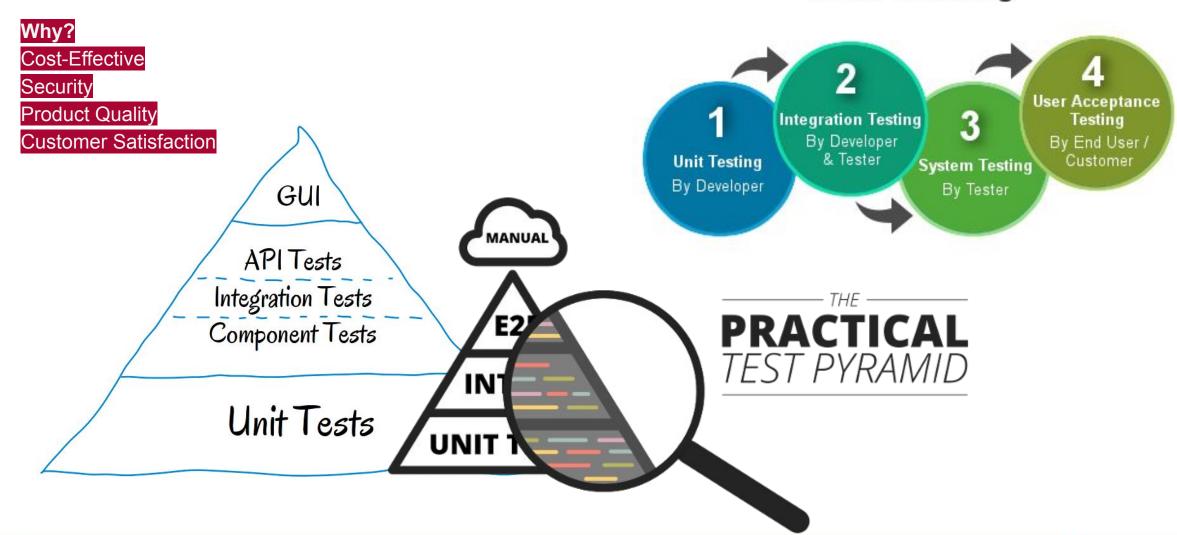
requirements and to ensure that

software product is Defect free.



02 Levels of Testings

Levels of Testing



Functional Testing

VS

Non-Functional Testing

Objective	To verify and validate the software actions that define the process	To verify and validate the performance of the system
Key focus area	Concentrates on the user requirements	Concentrates on the user expectations
Ease of use	Easy to execute black-box test cases	Easy to execute white-box test cases
Functionality	Describes what the system should do	Describes how the system should work
Execution	It is executed before Non- functional testing	It is executed after Functional testing is executed



Functional Testing

VS

Non-Functional Testing

When inputs are valid, app login functions

After login, the dashboard loads within 3 seconds

When email notifications are on, and user receives a new message, an email notification is sent

The email notification is sent within 5 minutes

When a JPG file under 1MB is uploaded, the uploader accepts the file

When eight files or less (each under 1MB) are uploaded at the same time, the queues all

When the settings menu item is clicked, the settings page loads

The settings page has a matching appearance to the rest of the GUI

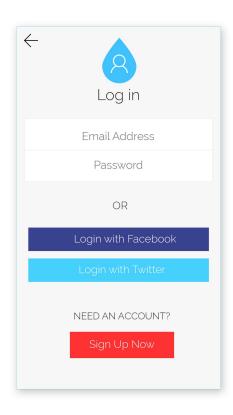
Functional Testing

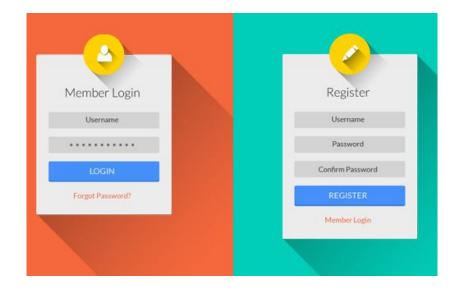
- Unit testing
- Integration testing
- End-to-end testing
- Smoke testing
- Sanity testing
- Regression testing
- Acceptance testing
- White box testing
- Black box testing
- Interface testing

Non-Functional Testing

- Performance testing
- Security testing
- Load testing
- Failover testing
- Compatibility testing
- Usability testing
- Scalability testing
- Volume testing
- Stress testing

- Maintainability testing
- Compliance testing
- Efficiency testing
- Reliability testing
- Endurance testing
- Disaster recovery testing
- Localization testing
- Internationalization testing







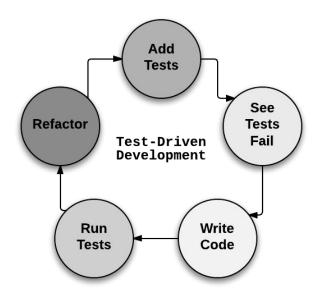
02 Test Driven Development TDD

- Manual Testing
 - No automated tools, human work
 - Device Room

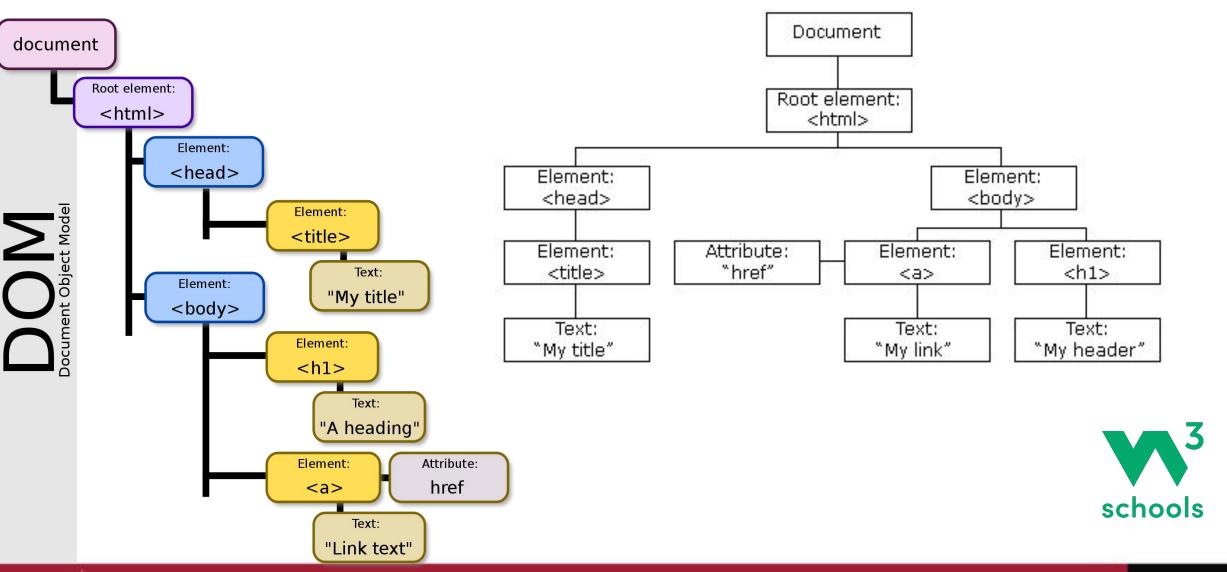
- Test Driven Development (TDD)
 - Higher quality code
 - Easier to maintain and update code base
 - Self documenting code
 - Reliable code

Software development process relying on software requirements being converted to test cases before software is fully developed.

This is **opposed** to software being **developed** first **and test** cases created later.



03 DOM



03 DOM

- Represents the content of html document as a tree structure
- Document:file
- **Object**: tags or elements
- Model: layout structure
- Easily read, access, update the content of a document

The **HTML DOM** is a standard object model and programming interface for

HTML == is a standard for how to get, change, add, or delete HTML elements.

03 DOM

Find

- document.getElementByld(id)
- document.getElementsByTagName(name)
- document.getElementsByClassName(name)

Change

- element.innerHTML = new html content
- element.attribute = new value
- element.style.property = new style

Add and Delete

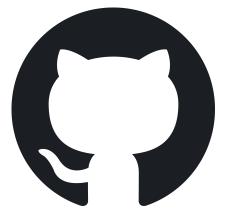
- document.createElement(element)
 Create
- document.removeChild(element) Remove
- document.appendChild(element) Add
- document.replaceChild(new, old) Replace
- document.write(text)



04 Pacmen Factory Exercise

NextTech Assignment







05 Portfolio

#	Critera	Work Week CARO'S RECOMMENDATION	
1	Video	Week 7	
2	Website Bio	Week 8	
3	Pages and Navigation	Week 9	
4	Styles	Week 10	
5	Projects	Week 11	
6	Bootstrap	Week 10	
7-8	PacMen	Week 7	
9-10	Eye Exercise	Week 8	
11-12	Real Time Bus	Week 9	
Portfolio on GitHub due on			



- GitHub Pages Portfolio
 Assignment Submission
- Course Outline
- Live Sessions: Schedule And Recordings

Portfolio

Actual Week	#	Critera	Work Week CARO'S RECOMMENDATION
W7	1 // 2	Video // Website Bio	Week 7
	7-8	PacMen	Week 7
W8	2 // 1	Website Bio // Video	Week 8
	9-10	Eye Exercise	Week 8
W9	3	Pages and Navigation	Week 9
	11-12	Real Time Bus	Week 9
W10	4	Styles	Week 10
	6	Bootstrap	Week 10
W-P	5	Projects	Portafolio Week
	Portfolio on GitHub due on		

Extra: Agile Learning Experience

- How did you do this week?
- One thing you learned this week that you didn't know about before?
- What still puzzles you?
- Where and when did it go wrong in this week?
- Which things went smoothly in this week?

