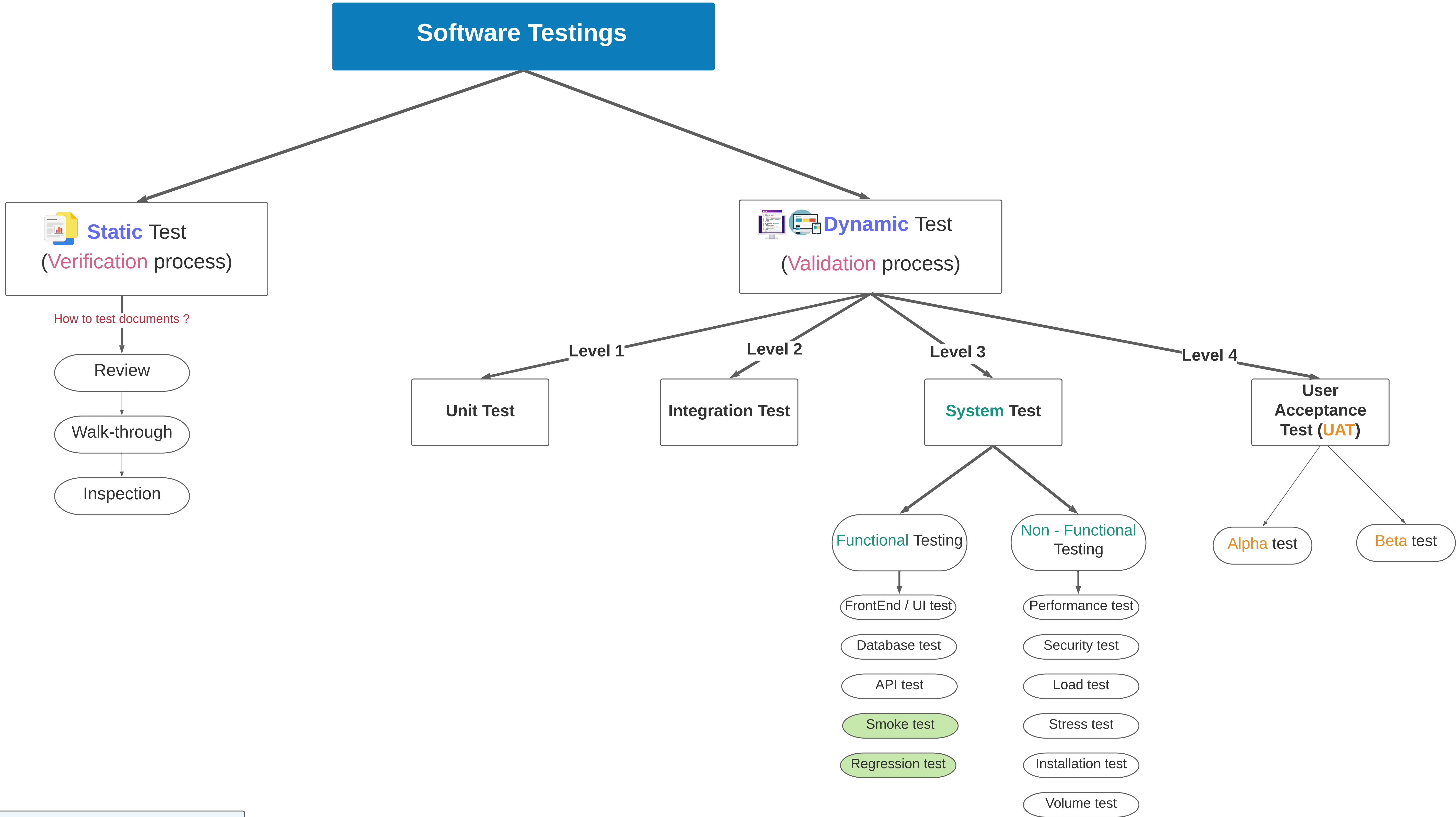


Different types of testing in IT industry

- software testing levels:
 - level 1 - Unit Testing
 - level 2 - Integration Testing
 - level 3 - System Testing
 - level 4 - User Acceptance Testing (UAT)
- **Functional Testing vs Non-Functional Testing**
- **Alpha testing vs Beta testing**
- Software Environments



How to test documents? How to perform static testing?

Review Doc	Walk-through Doc	Inspect Doc
Review is typically used to find and eliminate errors or ambiguities in documents. <ul style="list-style-type: none">Individual reviewGroup reviewRequirement doc reviewDesign doc review	This meeting is performed by author of the document to check the errors & to achieve a common understanding and to gather feedback. <ul style="list-style-type: none">Formal then review meetingDiscuss at peer levelUseful for higher level documents like requirement specification	Inspection is the most formal review meeting type. Before inspection, the documents are prepared and checked thoroughly by the reviewers. With this meeting, the document being reviewed is finalized.

What are the 4 levels of software Testing?

1 Unit Testing	2 Integration Testing	3 System Testing	4 User Acceptance Testing (UAT)
Done by: Developers Performed in Dev environment Unit Testing is done to check isolated of individual unit code and verify its correctness.	Done by: Developers Performed in Dev environment Integration Testing is checking data transfer and connectivity between a couple of units.	Done by: Testers Performed in QA environment System Testing is performed on the software itself by checking every single item to validate if the application quality meets the client's requirement. It divides to Functional and Non-Functional testings.	Done by: The client, End user, Testers Performed in staging environment The goal of UAT testing is to evaluate the software weather it's acceptable for delivery. In UAT, mainly test based on the real world scenarios. It has 2 categories, Alpha testing and Beta testing.

What is Functional or Non-Functional testing?

Functional Testing	Non - Functional Testing
Functional testing is to validate the every function of a software as per the functional requirements. Testers test all 3 layers of the application functionality on a daily basis. (front-end/UI, database, and API) Done by QA automation engineers / SDET.	Non-Functional testing focus on a software's performance, security, volume, load, etc parts which is not related to functionality. Done by performance test engineers, and security engineers.

What is Alpha or Beta testing?

Alpha Testing	Beta Testing
Test automation engineers (UAT team members) test the software to make sure it meets the requirement by following real world, End to End scenarios. Alpha test is performed in staging/pre-production environment.	The client, end users perform Beta testing. The goal is to bring the customer prospective in to validation. End user actually use the software and explore all the functionalities, performance parts of the application so decide weather the app is ready to release.