Levels of Testing:

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--> The testing done at various levels and by whom it is done is called Levels of Testing.

--> There are 4 levels of testing. If theses 4 levels of testing is completed only, we can say the application is ready for release.

1.Unit Testing

2.Integration Testing

3.System Testing

4.Acceptance Testing

1.Unit Testing:

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--> Testing an individual module in an application

--> Done by Developers

--> Test based on White Box Testing Technique.

2.Integration Testing:

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--> Combining or merging two modules

--> Done by Testers

--> Test based on Black Box Testing Techniques

--> Big Bang Approach - Combing all combination of units

--> Top-down Approach - Higher level combinations of units

--> Bottom-up Approach - Lower level combinations of units

3.System Testing:

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--> Complete Application Testing

--> Done by Testers

--> Test based on Black Box Testing Technique

--> Types of System Testing:

--> Functional Testing - To test the functionalities of the application

--> Usability Testing - To test whether the application is user friendly and it is easily understandable.

--> Performance Testing - To test whether the application is not getting crashed or down when there is load/stress

--> Security Testing - To test whether the application is secure or not

--> If theses 4 levels of testing is completed only, we can say system testing is completed

4.Acceptance Testing:

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--> Getting approval from client

--> Done by client side

--> Testing will be done at Development/Testing Environment

--> Satisfying client requirement.