Name: Robith pasha Software Testing and class: - MSIC Quality Assurance. Regnoir 24MSIC123 Designment -1 What are the major types of software testing?
Give Examples. Boffware testing is the process of finding defects in the software. Major types of software testing. O Blackbox testing! Tests the functionality of the goffware without looking of the internal code structure (Tester). Extracting a login page by imputing volid E involid credentions without knowing backeral logic. Developer)

Testing each branch of on it-else in a

Function. Onit testing? Tests individual units or components of the software to ensure they function as intended. Est, Testing a function that some prices in a shopping cart.

Integration testing: Tests the integration of difficulties of software to ensure they work together as a system. Testing how o login module connects with user database. Toutional testing! Tests the fructional requirements of the software to ensure they are met. to verify correct amount is debited and credited. Regression testing! Tests the software ofter changes or modifications to ensure no new defects are introduced. Ex: After adding a new payment gateway testers recheck login, startop & checkout to ensure nothing broke. Performance testing! Tests the software to determine its performance charactersties such as speed, scalability and stability. til. checking how on e-commerce website handles la coo users browsing & purchasing Products Simultaneously.

what are the differenties types of Perision Factor Vesting classes? Revision factor testing is a process designed to verify that any changes made to the software - whether through bug fixes, enhancements or adoptations - do not negatively offect the existing functionality. -7 It evaluates the revision factor or the impact that these changes have an Software's behaviour. Types of Revision factor testing classes. resolve the issue without disrupting other features. -> Corrective testing! Example: After fixing a bug in our authorization Verify that users can still tog in and that related features remain preffected. of Holop tive testing, TEnsures that the software Sourtions correctly when moved to or operating in a new environment. Example! A destap application developed for win le

Per Pertire testing + To confirm that they meet the intended improvements in provements without negative side effects. Escample: An updated search engine promises faster results. Testing ersores that wile the response time has improved the accuracy and relevance of search results are not Compromised. Regression Testing! disrepted escripting functionality in parts of software that were previously working Brample? After integrating a new donk roode lecture The tests are own on excisting features like login, notifications etc. to ensure they Continue to function properly.

what is the difference between Black box testing and whitebox testing in terms of implementation and visibility?

Blackbox testing: It is a testing method where

Blackbox texting: If it a texting method whom
the tester evolvates the functionalities of an
application without looking into internal code.

white box testing it It is a testing technique where the internal code, logic and structure of the application our tested.

Différence blus BBT and WBT in terms of implementation visibility.

1		
Aspect	BBT BBT	NBT
code access.		Full access to the
	No access to the internal code.	Full access to the internal cade.
Focus.	Focuses on functiona	Focuses on internal logic and structure.
Trester role.	Treated as end	Requires the programming Knowledge.
Mawlede Needed.	Does not require programming knowledge.	or with developer

Differences blu BBT and WBT in terms of

Emplementation.

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Aspect	BBT	w BT
Test cases Basedon	Requirements and Specification	cade logic , poths and structure.
Tools	Gelenium, Pastman. Test Rail	Jonit, Novid, Pytest
Common Vechniques.	togravalence partitioning boundary value	statement coverage, branch coverage, path texting.
Testing.	Mointy used for higher levels	Mainly used for lower levels.
Maintenance	tossier to mointain as UI/apre changes	Harder to Maintain as code changes affect tests.

What is Baltware Qualification Testing, and what are its Different types? Bottone Qualification Testing ensures that soldware meets specified requirements and is ready for deployment. or It validates whether the software performs correctly under different conditions. or confirms the software needs the business and technical requirements. Types of Pollwere Qualification testing. · Installation Dooff Cookfication (ID) or verifies that the software is installed correctly in its intended environment. tocomple! - checking whether ERP system is properly installed with the required dotobase and dependencies before user 2. Operational Qualification: (OD) onder standard operating coditions.

to ensure cash withdrawal and bolance ingrity.

3. Performance Qualification. vader real-world conditions. trample: Testing a ride shawing app to hondle 50,000 simultoneous ride requests without what is Equivalence class partitioning (ECP) in testing ? Give a Buitable example? of import data into groups called equivalence classes. The idea is that if one test case in a group produces the correct output on other cases in that group will likely to do so. 7 Et Reduces Test cases
7 Improves Efficiency
7 Poentifies Boundanies. 1. Edentify the input Donain: Determine all possible input values for a porticular function or module. 2. Divide into Equipolence classes! expected to work correctly.

should be rejected or couse error messages. B. Belief Representative Test cases! chase one (or few) volves from each equivolence class to perform tests. Assure, we have to test a Pield which accepts Age 18-56 AGE Enter Age Accepts values
18 to 56. Equivalence Partitioning. anvolid volid Involid X=17 18-56 /7=57. what over the gradifications and skills are needed to become on effective Roffware tester? Qualifications 1. Educational Background: or related field. 2. Certifications! TESTOB (Enternational software testing Qualification Board)

(6)

ACSTE (Cortified software tester) Technical ekills! Onderstanding of SDLC & STLC Testing types. 3. Test care Designs. 4. Bug tracking Tools 5. Automation Testing APE Testing Database /SQL Version control Analytical and, problem solving skills. is Ability to analyze requirements. Think like user to find issues. (Soft skills. 1. Communication stalls. 2. Attention to Detail Time Management Teom collaboration