- : 50ftware Test Methodologies: - 6. Chethan Kuman 222010310024

- Assignment - 2:-

Differentiate between black box and white box festing.

Black Box Testing

- It is a way of software tresting in which the internal structure or the program or the code is hadden and nothing is known about it.
- of black box testing.
- It is mostly dope by software tester
- · No knowledge of emplementation
- external software testing
- · It is a functional test of the software
- · This testing can be initiated based on the requirement specifications documents
- · No knowledge of programming is required.
- · It is the behavior testing of the software
- of testing of softwar.
- · It is also called closed testing

White Box Testing.

- of it is a way of festing the software in which the fester has knowledge about the internal structure or the code or the program of the software
- · Code implementation is necessary for white box festing
- . It is mostly done by software developers.
- « knowledge et implementation is.
- . It is the inner or the internal software testing.
- · It is a structural test it the software
- . This types at testing at software is stated after a detail desgin. document.
- . It is mandadory to have knowledge to pregramming
- " It is the logic testing of the software.
- . It is generally applicable to the lower level ut software testing.
 - " It is also called a clear box testing

· It is last time consuming

It is not stillable or preferred too algorithm Heating

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- Block-box testing techniques

- · Decision teble testing
 - · All -pairs testing
 - · Equivalence pastition--ing steph & IT.
 - · Error-guering

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. It is most tome consuming

White box test design technique

- · Control flow testing . Data flow testing
- · Boanch testing

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Worte about alpha and belo testing? Alpha Testing 1-

. It is one type of eyes acceptance testing. It's aims is to identify all the possible issues and errors that a product is delivered to the end-user or to the public. This testing got 14's name alpha because 44 is performed at an early, stage, close to the and of the software development life cycle but before beta testing.

- · This kind of testing is performed by internal employees as the company that includes testers and Quality Analysts (DA) people. It is end to end testing done in a testing environment that makes sure the software developed meets all the expectentions & works according to the requirements discussed at the Start of development
- · Alpha testing is carried out in two phases. The first phase is performed by Software developers of the organization using some be beigging softwer or tools. While the second phase is carried out by the testers. testing also. Below is the process followed is alpha testing:
 - · Functional requirement and design specifications are reviewed
 - · Developing test cases and test plans.

- · Implementing those test plans.
 · Defects raised from those test plans are then logged and informed to the developers.
 - · Developers resolve the detects raised and perform.

· Beta Testingi-

Beta Testing is also a type of acceptance testing that is obese by a pasticular group of real way of the application. As it is the final stage of testing, it is done in production or a real environment. To achieve this type of testing the software is released to a few external members or customers who are not from the organization they provide their feed back on the product is design, functionality, and overall quality.

This testing is highly beneficial we are getting direct reviews from the person who is actually going to cure the product of tex its final release and it decreases the failure risk at software. There are various type of Breta testing like traditional beta testing, public beta testing technical beta testing, and focused and post-release beta testing.