Test Design Techniques:

Test design techniques used to verify the test conditions and scenarios to write the efficient test cases.

It is used to achieve high -test coverage.

Test design -- 2 types;

1.Static testing Technique

2.Dynamic Testing Technique

Static Testing:

It is also known as Verification or Non-execution testing.

It is performed to check the defects in the software without actually executing the code of the software application.

Verification means , the process of verifying whether the developing software is correct or not.

It Is performed in the early stages of development to aviod errors .

Static testing is performed in the White Box Testing Phase of the S/W development where programmar will check every line of code before handing to the Test team.

It is involves assessing the code and documentation.

SRS(software requirement specification) & FRS(Functional requirement specification document)

Static testing will be carried out with the help of reviews and walkthroughs.

Techniques:

1.Review

- Management review

review conduct by high level management (CEO, CTO)(or) middle level management ( PM, QAM)to check whether there are any slipages ( the deviation between planned efforts and actual efforts) or it is going smoothly.

-Technical Review

Technical specifications of the software product is reviewed by the team to check whether specifications are correct for the project or not.

Technical specifications documents--- test plans, test strategies, requirement specification documents

-code Review

Conducting review on their own code.It checks the syntax of the code, coding standards, code optimization etc.,

-Formal Review

With prior planning this review will be conducted. Reviewers have a checklist of the work product.

-Inspection or Informal Review

Without prior planning. In informal review, all documents are presented to the every team member, they just review the documents and informal comments.

2.Walkthroughs:

Skilled people or the author of the product explains the product to the team and makes the notes of the review comments.

Dynamic Testing

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It is also called as Validation.

The process of validating whether the developed product are correct or not.

Dynamic testing is performed to analyse the dynamic behavior of the code.

It can be carried out with the help of White box testing And Black Box testing.

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