FACULTY OF ENGINEERING & TECHNOLOGY

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Topics Covered

Decision Tables
Advantage of Decision Tables
Stepwise refinement

Decision Tables

- It provides a regular way of stating complex business rules, that is helpful for developers as well as for testers
- It assists in development process with developer to do a better job. Testing with all combination might be impractical
- A decision table is basically an outstanding technique used in both testing and requirements management
- It is a structured exercise to prepare requirements when dealing with complex business rules
- It is also used in model complicated logic

Advantage of Decision Tables

- Any complex business flow can be easily converted into the test scenarios & test cases using this technique
- Decision tables work iteratively that means the table created at the first iteration is used as input table for next tables
- The iteration is done only if the initial table is not satisfactory
- Simple to understand and everyone can use this method design the test scenarios & test cases
- It provide complete coverage of test cases which help to reduce the rework on writing test scenarios & test cases
- These tables guarantee that we consider every possible combination of condition values. This is known as its completeness property

Stepwise refinement

•The creative activity of programming-to be distinguished from coding-is usually taught by examples serving to exhibit certain techniques

•Programming is usually taught by examples

•Stepwise refinement is the idea that software is developed by moving through the levels of abstraction, beginning at higher levels and, incrementally refining the software through each level of abstraction, providing more detail at each increment

•At higher levels, the software is merely its design models; at lower levels there will be some code; at the lowest level the software has been completely developed

•Refinement can be seen as the compliment of abstraction

•Abstraction is concerned with hiding lower levels of detail; it moves from lower to higher levels