

System Simulation



Problem in Software Engineering was not going through proper planning.

We build systems like the Wright Brothers built airplanes - build the whole thing, push it off a cliff, let it crash, and start over again.

What is Simulation?

Simulation is the imitation of the operation of a real-world process or system overtime.

OR

Systems Simulation is a set of techniques that uses computers to imitate the operations of various real-world tasks or processes through simulation.

How Systems Simulation works?

1) Simulating first requires that model be developed.

2) Model passes

- Characteristics
- Behaviours

of selected abstract system.

3) Computers describe or displays complex interaction among multiple variables within a system.

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Simulation is used in many contexts Such As

1. Simulation of Technology :-
2. Safety Engineering
3. Testing
4. Training
5. Education
6. Video game
7. Scientific Modeling
8. Human System Modeling
9. Clinical healthCare Simulator



To day, Software tools for System modeling and Simulation are being used to help to eliminate Surprises reactive.

Computer based Systems are built

These tools are applied during System engineering process.

Role of H/D & S/W, databases and people is being specified.

These tools enable a system engineer to "test Drive" a specification of the System.

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