

CS-381 SOFTWARE ENGINEERING

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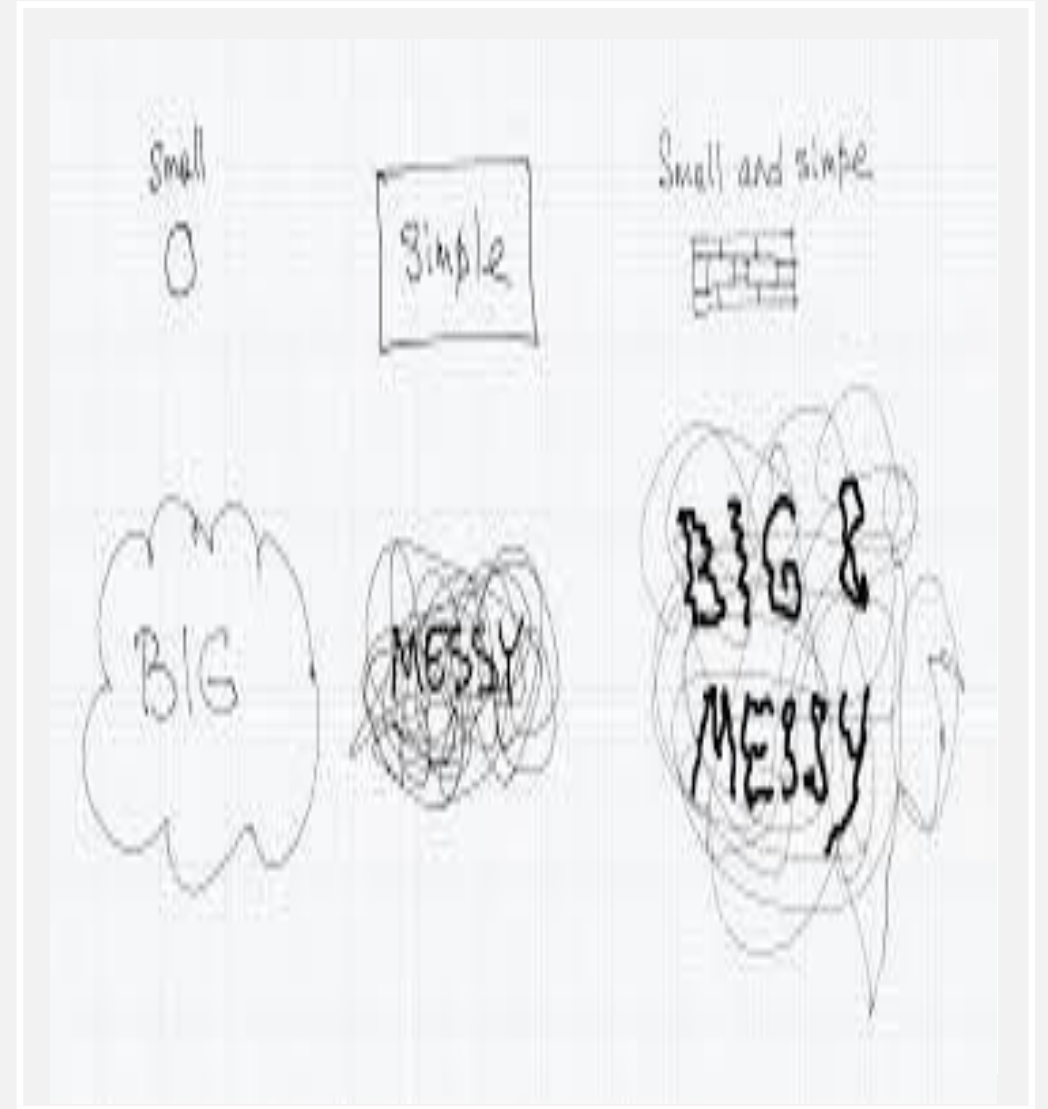
WHAT IS SOFTWARE ???



NEED FOR SOFTWARE

Example:

E-pay Punjab



WHAT IS ENGINEERING?

WHAT IS ENGINEERING?

- Physics itself is NOT Engineering.
- Software Engineering is related to Computer.

Civil Engineering

Laws of Physics



Mechanical Engineering

Laws of Physics



Electrical Engineering

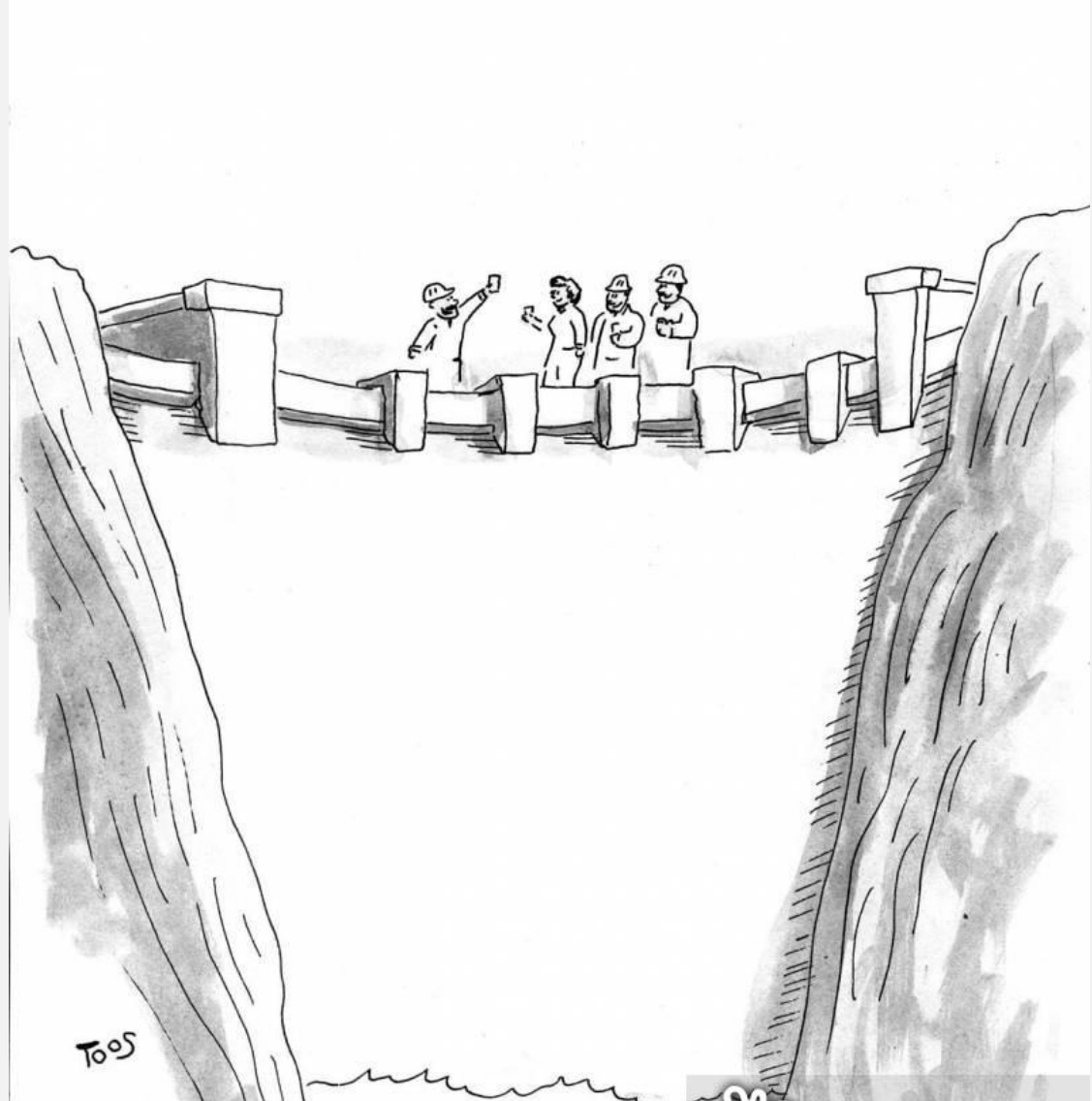
Laws of Physics



WHAT IS SOFTWARE ENGINEERING??

Example:

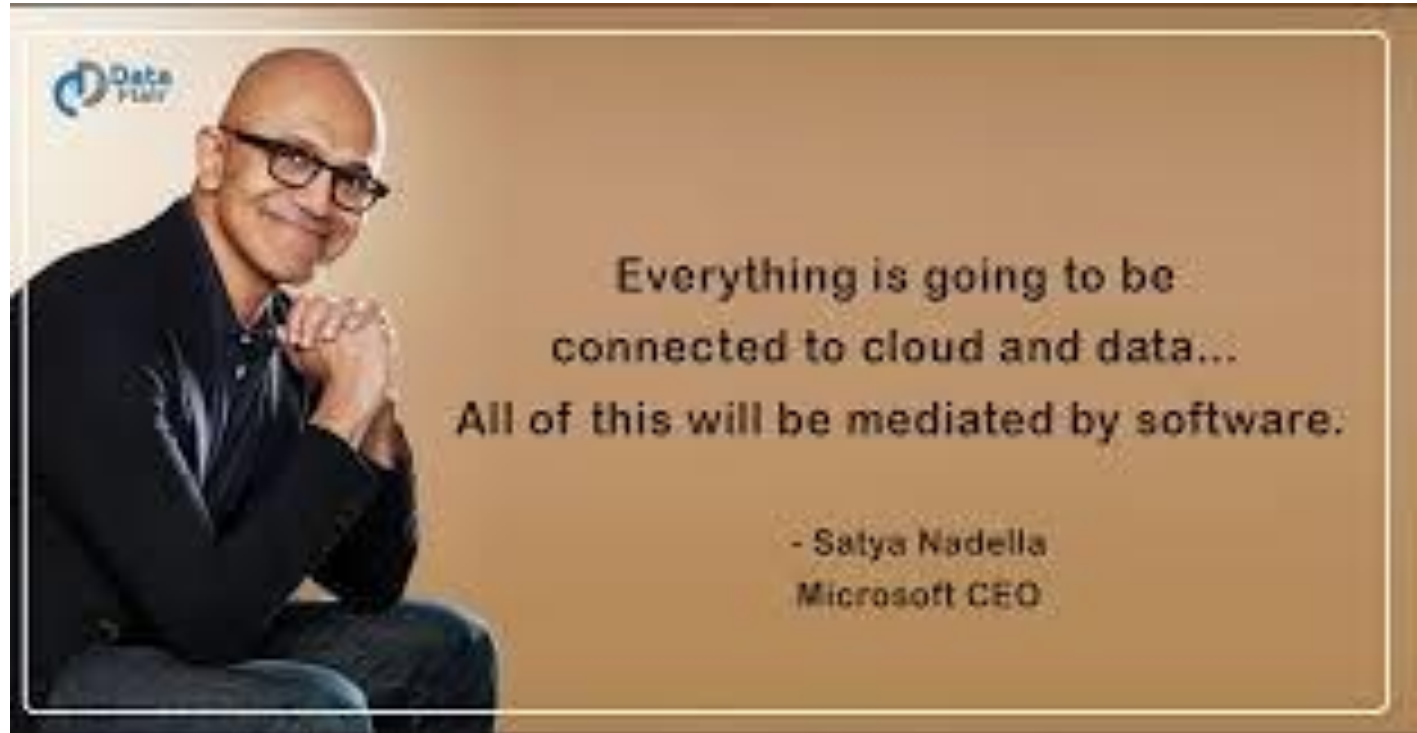
- Construction of a dam



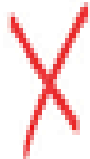


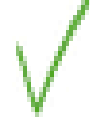
**SOFTWARE / OTHER
ENGINEERING**

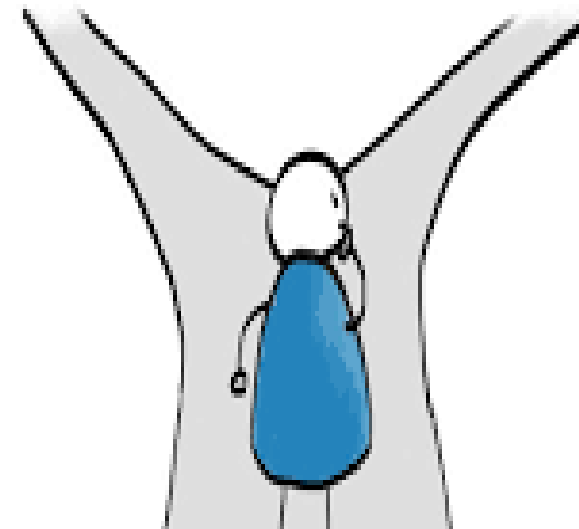
WHY STUDY SOFTWARE ENGINEERING ??



FAILED PROJECTS

 Project
failure

 Project
success



midaGon

MOTIVATION



"If we want users to like our software,
we should design it to behave like a
likeable person: respectful,
generous and helpful."

Alan Cooper

Software Designer and Programmer



SOFTWARE CRISIS



SOFTWARE ENGINEERING AS A BALANCING ACT

- Quality Performance
- Response Time
- Interactive Interfaces
- Efficiency
- Integrity
- Cost Effective



PROJECT BREAKDOWN

BREAK EVEN POINT:

- 1) Point where total costs (expenses) and total sales (revenue) are equal.
 - 2) There is no net profit or loss.
- **Break Even Point = fixed costs / (Price per unit - Variable costs)**



PROJECT AS
A
NIGHTMARE



TIME TO THINK

5 MAJOR REASONS OF PROJECT FAILURE

