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1. 80:20 rules

A. What does the 80:20 principle mean in real terms? Think of an example (mentioned in class) where the 80:20 rule can be applied

- The 80:20 concept, frequently referred to as the Pareto concept, holds that about 80% of outcomes result from 20% of events. In practice, it implies that a small number of inputs (20%) frequently produce the majority of outputs (80%).

  As an example, in software development, it is normal to see 80% of failures and crashes caused by only 20% of flaws. Prioritizing the correction of these severe problems allows developers to greatly improve the stability and speed of their product.

B. Why can't traditional development methods (such as the waterfall method) conform to this model?

- Traditional development methodologies, such as the waterfall model, suffer difficulties in adhering to the 80:20 paradigm owing to their sequential structure. This sequential method is challenging for a number of reasons.
- Late problem identification creates a backlog of important issues that require considerable rework rather than being addressed progressively.
- Limited flexibility reduces responsiveness to modifications, making it difficult to pinpoint and prioritise the most important features or needs that add the greatest value.
- Fixed allocations of resources based on established plans could end up in inefficient resource use, with major efforts directed toward less vital sectors.

2. MoSCoW rules

A. Prioritization Using MoSCoW Rules

ID	REQUIREMENTS	MOSCOW	REASONS

- Must have:
    o Customer database: data input, querying, and updating.
    o Quotation screens allow tele sales workers to offer rates to consumers.
    o Approval of the insurance contract (and the subsequent steps)
    o PrinTRIALinsurance certificates and schedules

- o   TRIALtance of renewals.
  - o   Acceptance of payment by credit or debit cards
  - o   Database backup performed automatically on a transactional basis.
  - o   A security system having tiered access to systeTRIALctionality.
- Should have:
  - o   Quotation database - data entry, querying, and premium updates
  - o   Auto sending of renewal reminders.
  - o   Automatically prodTRIALn of payment reminders.
- Could have:

  - o   Reports from management tracking daily, weekly, and TRIALly premium sales.
  - o   Management documents comparing new client business to curreTRIALstomer renewals.
    Management documents profiling client type, car type, and insurance kind.

B. Effectiveness of MoSCoW Rules:

- The MoSCoW principles give a systematic way to prioritizing functionality, ensuring that critical features are handled first while being flexible to meet changing priorities and restrictions.
- Focusing on crucial characteristics allows teams to provide an acceptable product that fulfills essential stakeholder demands, lowering project risks and facilitating efficient interaction among teammates and stakeholders.