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# 80:20 rules

## 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.

## 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.

# MoSCoW rules

## Prioritization Using MoSCoW Rules

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| --- | --- | --- | --- |
| ID | REQUIREMENTS | MOSCOW | REASONS |
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* Must have:
  + Customer database: data input, querying, and updating.
  + Quotation screens allow tele sales workers to offer rates to consumers.
  + Approval of the insurance contract (and the subsequent steps)
  + Printing insurance certificates and schedules
  + Acceptance of renewals.
  + Acceptance of payment by credit or debit cards
  + Database backup performed automatically on a transactional basis.
  + A security system having tiered access to system functionality.
* Should have:
  + Quotation database - data entry, querying, and premium updates
  + Auto sending of renewal reminders.
  + Automatically production of payment reminders.
* Could have:   
  + Reports from management tracking daily, weekly, and monthly premium sales.
  + Management documents comparing new client business to current customer renewals.   
    Management documents profiling client type, car type, and insurance kind.

## 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.