Requirements and Use Case Diagrams

Building software that users actually need

From Requirements to Visual Models

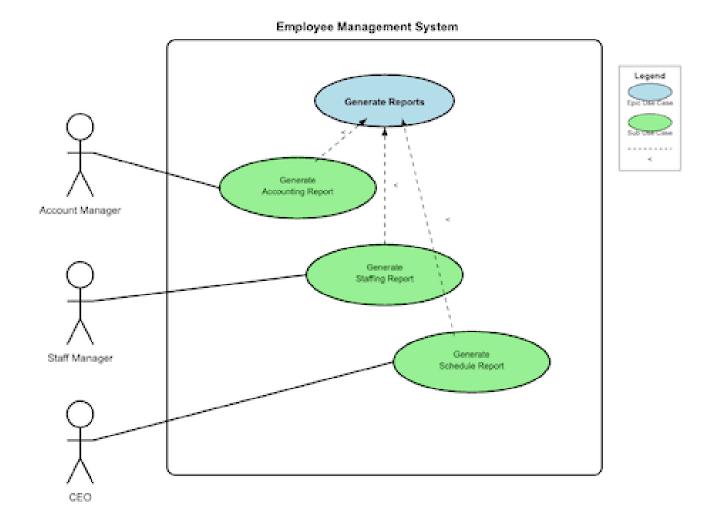
- Requirements tell us what the client wants and guide software development.
- They are a key communication tool between clients and engineers.

Think of requirements like a recipe:

- Actor-Goal Format: Who wants what, and why?
- Use Case Diagrams: A visual recipe showing all the roles and steps involved.

Real Example: Employee Management System

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Epic requirement:
As an "employer,"
I want to "generate reports"
so that "I can manage my employees."
Sub requirement 1: As an "account manager,"
I want to "generate an accounting report (name + salary),"
so that "I can track monthly payments."
Sub requirement 2: As a "staff manager,"
I want to "generate a staffing report (name + job title),"
so that "I can track my team."
Sub requirement 3: As a "CEO,"
I want to "generate a schedule report (shift times),"
so that "I can track working hours."
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Why Use Case Diagrams Matter

Visualizing Requirements

- Improved Communication:
 - Everyone can see and understand what's needed.
- Complete Coverage:
 - Ensures no features are missed.

Foundation for Architecture & Design

- Defined Boundaries:
 - Clarifies what each module does and how they interact.
- Testing Reference:
 - Acts as a checklist to verify every module works as intended.