Requirements Analysis

**The systems analysis phase**

* Identify need for a system (System request)
* Perform feasibility analysis (not learned yet)
* Gather information using requirement gathering techniques
* Define system requirements
* Prioritize requirements
* Prototype/evaluate

What is a requirement?

* It’s a statement of what the system must do and what characteristics it must have
* It is the “What” of the system. It’s written in a business perspective
* They later become the “How” of the system, but only later.

**Functional VS Non-Functional requirements**

* Functional: relates directly to a process the system must perform or information it needs to contain
* Non-Fictional: refers to behavioural properties

**Non-Functional Requirements**

* FURPS+
  + Functionality
  + Usability
  + Reliability
  + Performance
  + Supportability
  + Operational
* Operational: Deals with the physical and technical environment that the system will operate
* Performance: Deals with speed, capacity, and reliability of system
* Security: Deals with access. Who can access the DB, who can see what and do what.
* Cultural and political: legal requirements that affect the system, political factors.
  + Currency
  + Time zones

**Vision**

* This is a document used in both Agile and non-agile development. It answers:
  + **What problem** will it solve
  + **What features and benefits** will it provide
  + **Who** does it provide it for?
  + **What** will it offer in terms of **performance, reliability**, etc.
  + **What platforms, standards,** will it support?