

Solution Architecture

Architectures and Architectures

- Software architecture
- Solution architecture
- Data architecture
- Logical architecture
- Technology Architecture
- Information Architecture
- Platform Architecture
- Technical Architecture
- System architecture
- Code architecture
- Deployment architecture
- Enterprise Architecture
- Application architecture
- Conceptual Architecture

Solution Architecture

Enterprise Level Software

- Software is used by people to accomplish something, in some ordered, regulated way – as part of a process
- The right use in the process is very critical for the software to succeed – its adoption, continued use, sustenance and growth

Banking Example

- In a bank, how does one verify the signature?

The computer system can be used to store the signature and when a verification is needed, retrieved from the database and presented to the user. Alternately, some image matching software can be used to verify the software.

Library Example

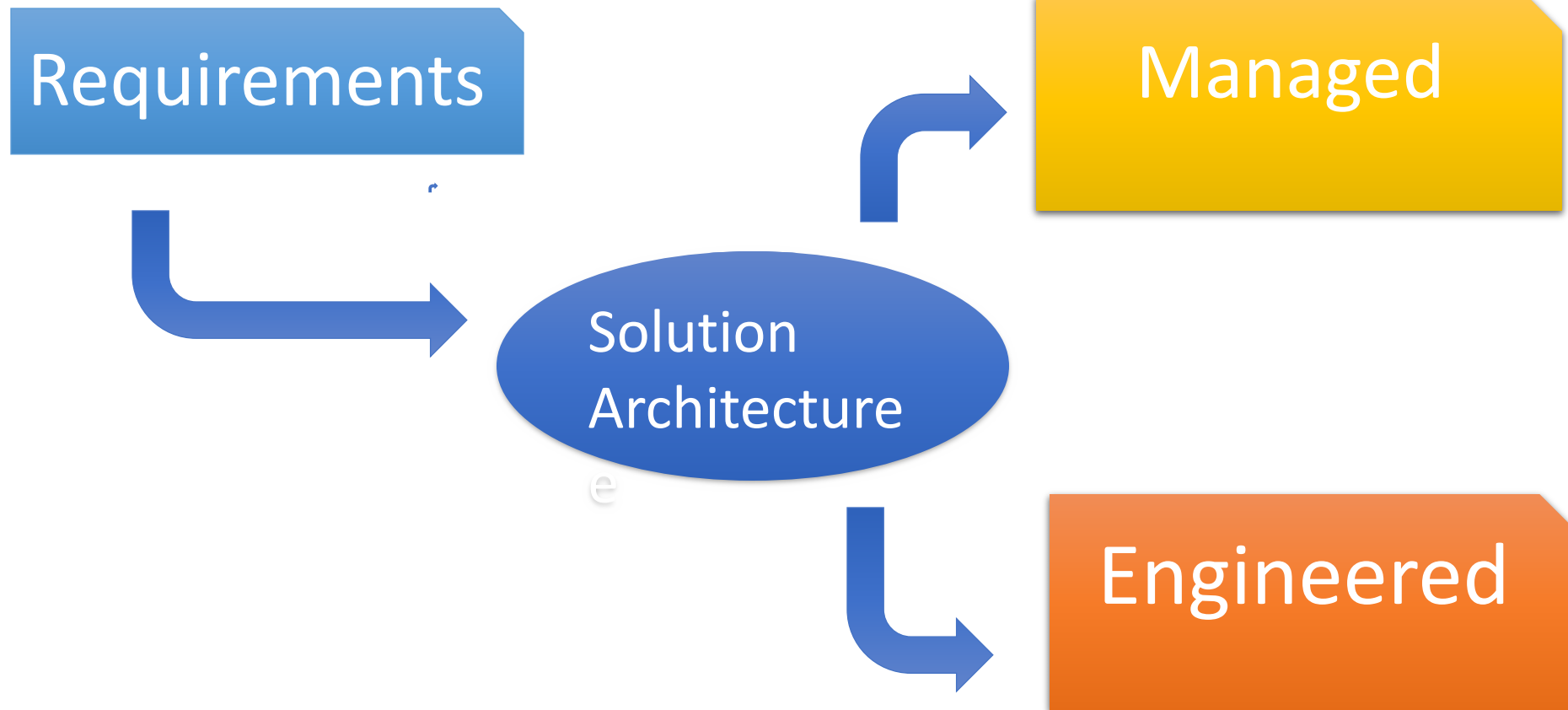
- How does make sure that the book being taken out of the library is issued to the user?
 - Make a person check at the gate
 - Put a magnetic strip in the book binding and use a sensor
 - Don't check – live with some pilferage

Example

- A banking automation will have to decide whether it will support 'pass-book' printing or will not provide such functionality to its customers
 - This has huge cost implications

Failover Example

- Failover
 - A standby computer takes over upon a failure
 - A 'hot standby' may double the costs or more
 - Does the application need it?



Solution Architecture

- Divides the requirements into what is to be 'engineered' and what is to be 'managed'
- Managed – to be done through processes, practices
- Engineered – through hardware, software – the reason we exist?
- Business goals to functional requirements

Home Work

- Generate some examples where the solution architecture is different and illustrates some trade-off