

## **Why is software architecture important**

Without a proper architecture the system might be

- Difficult to build
- Difficult to test
- Difficult to maintain
- Difficult to change
- Difficult to understand
- Difficult to reuse
- Difficult to integrate with other systems

## **Difference software architecture and software design**

- Software architecture oversees the whole while software design mostly focusses on one design problem
- Software architecture needs to make sure that all requirements are met
- Software architecture is often more at a higher level than software design

## **What makes software architecture so difficult?**

- Many possibilities
- Many frameworks, libraries, styles, patterns, databases, etc
- Every possibility has advantages and disadvantages
- Everything is a tradeoff
- Everything changes all the time
- Many decisions to take