

Lab 1

- a. Read the following article:
<http://files.catwell.info/misc/mirror/2003-martin-fowler-who-needs-an-architect.pdf>
- b. Watch the following video: <https://www.youtube.com/watch?v=DngAZyWMGR0>
- c. Explain clearly why software architecture is important
- d. Explain what the difference is between software architecture and software design
- e. Explain what makes software architecture so difficult.
- f. Explain clearly the main differences of software architecture in a traditional waterfall project and software architecture in an agile project.
- g. Suppose you need to define the architecture for a large expensive system, and it is important that this system is future proof because this system will be used for at least 20 years. Explain how you can design a future proof system.
- h. List all the tasks you can think of that a software architect needs to do in a software development project.
- i. For each of the following qualities, give at least 1 technique that you know to increase this quality:
 1. Performance
 2. Availability
 3. Resilience (against failure)
 4. Reusability
 5. Maintainability

What to hand in?

1. One PDF of part c, d, e, f, g, h and i