

The exam

- Choose a topic
- Look for references
- Ask me for approval
- Write the report (possibly in LaTeX)
- Prepare the slides
- Send me by email report and slides
- Present the slides

Suggested structure for your report

1. Description of a system or class of systems
2. Architectural description
3. Context (which is the scope of this architecture? Main use cases?)
4. Structure (which components and connectors? Patterns? which packages?)
5. Functions (how do you map requirements on components)
6. Behavior (how does the architecture work?)
7. Rationale (why the architecture has this form? Which styles are used?)
8. Analytics aspects (critical issues? Usual tests applied to this architecture?)
9. Similar architectures or derived architectural styles
10. References (at least 5 papers, sites do not count)

Ideally your presentation should prove you have “matured” a vision as a software architect; it is ok if you copy pictures from literature (cite your sources) but I especially appreciate original pictures well commented and discussed.

Timeline

- Send proof of report: dec 5
- Send final report: dec 15
- Send presentation: dec 17
- Presentations: dec 19 or 20, jan 12

Possible topics

- Any system with an interesting architecture
- Comparison MVC vs REST
- Cloud computing and services
- Autonomic systems, multiagent systems
- Semantic Web architectures
- Specific enterprise architectures
- Languages for architectural descriptions

Some old topics

- Federated databases
- Semantic web services
- Instant messaging
- Cloud: Azure vs Google
- Application stores
- Open source architectures
- Data as a service
- Dropbox
- Android security architectures in browsers
- Cloud computing: Eucalyptus
- Grid software architecture
- .NET
- P2P skype
- Architectures for games
- Social semantic web
- Content management systems
- TOR
- SAP
- Web portals
- Good relations (e-commerce)