


NanoSim

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Overview

- ▶ Focus of the project
 - ▶ Nanosim as a case study
 - Role playing simulation
 - Different types of participants and services
 - Deliver content according to participants properties
 - ▶ Agenda:
 - Lifecycle
 - Risk Analysis and Mitigation
 - Requirements and Specifications
 - Architecture
 - Implementation
 - Source code management
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Life Cycle

▶ Spiral/Evolutionary model

- 2 weeks
 - Risk analysis
 - Requirement analysis
 - Preliminary architecture design
 - Wiki
- 3 weeks
 - Complement initial architecture adding web service layer
 - Data access layer
 - Initial services
- 3 weeks
 - Service implementation
 - Functional testing



Risk Analysis

- ▶ The first step our spiral model
- ▶ The risks:
 - Scope and time management
 - Team background
 - Git/SVN
 - Extensibility/Flexibility
 - GWT
 - Correctness




Requirements & Specifications

► Requirements

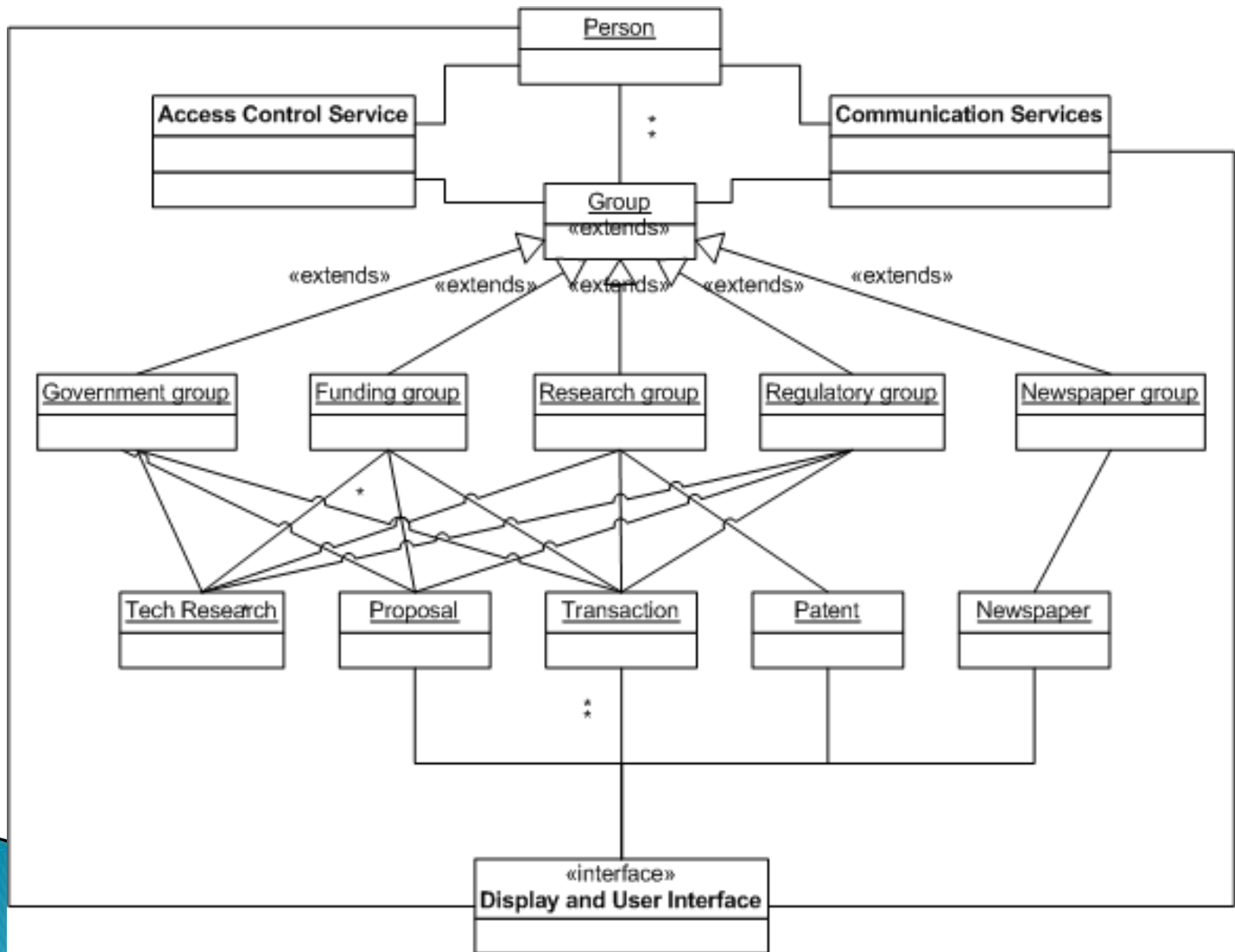
- For developers
 - Easy extension
- For instructors
 - Small time setup
- For the students:
 - User friendly environment
 - Fulfilment of pedagogical goal
- Access from different locations
- No extra installation on the end user's system

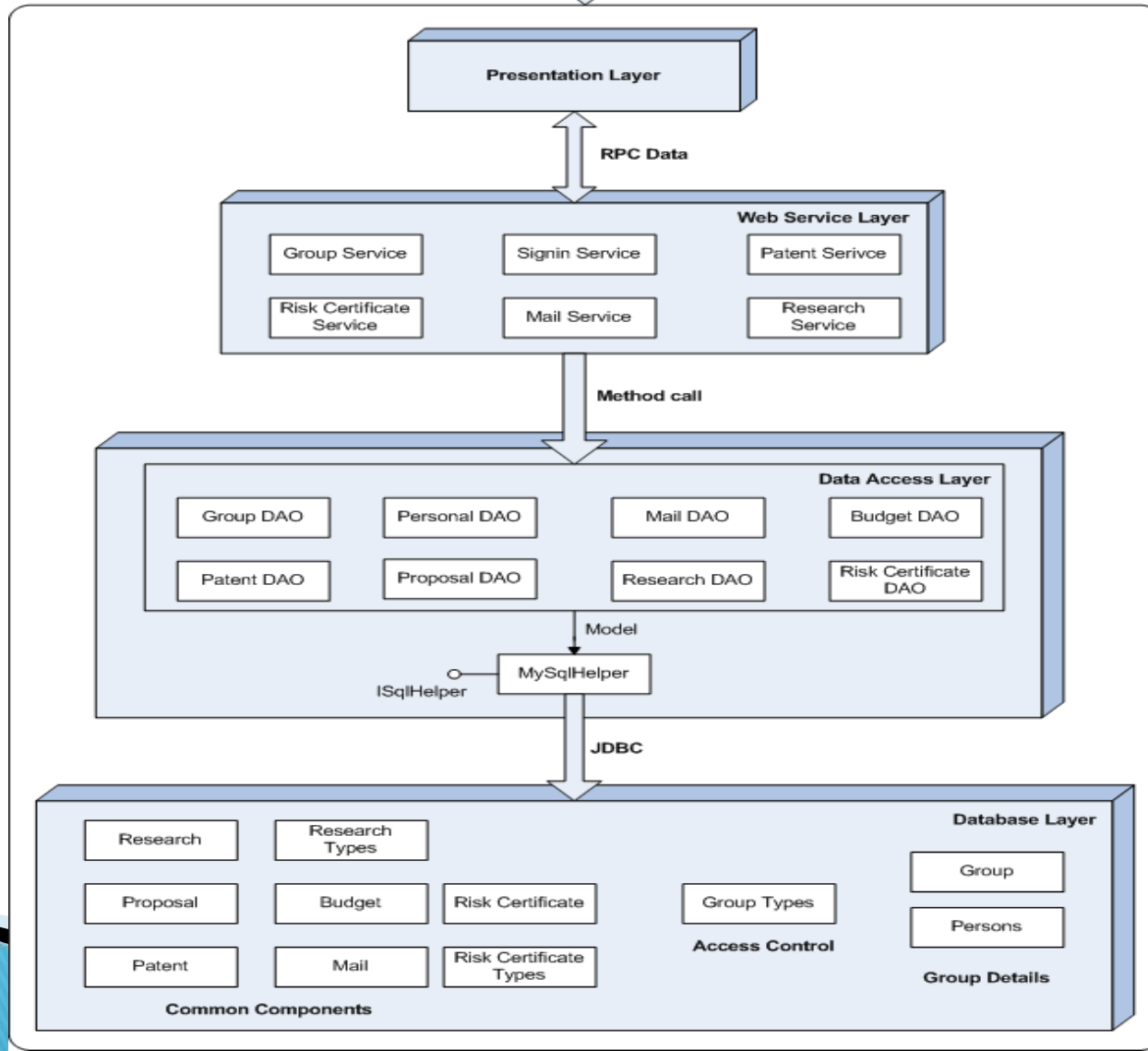
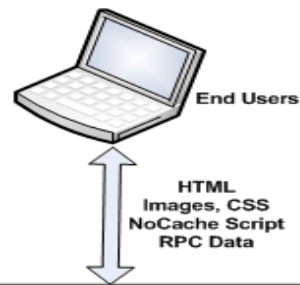


Requirements & Specifications

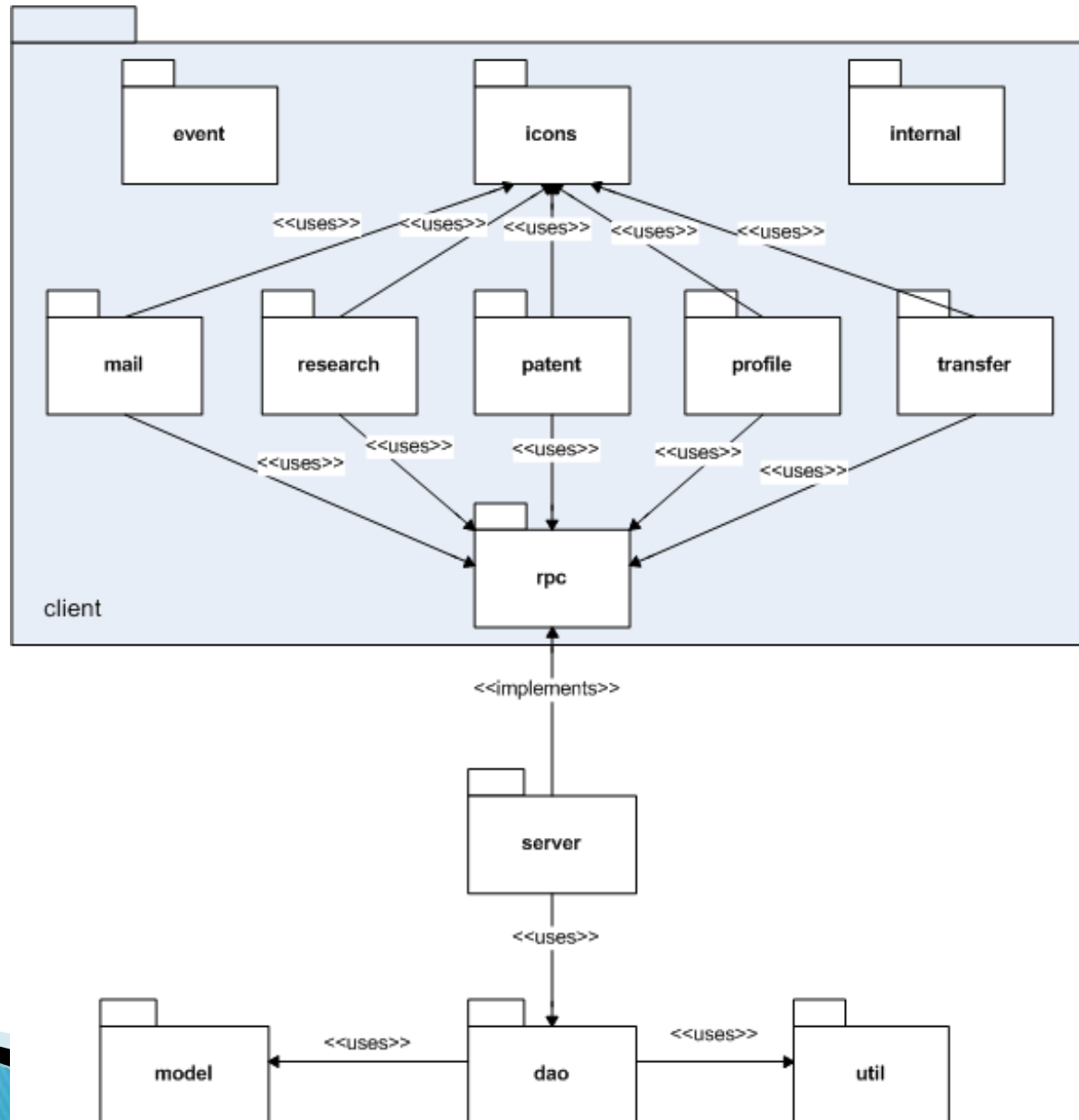
- ▶ Specifications:
 - Database independency
 - Access control
 - Services
 - Group / user management
 - Budget transactions
 - Mail
 - Proposal
 - Research
 - Patent
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Architecture






Implementation



Source code management



Conclusion

- ▶ Developed an understanding of the challenges involved in developing software
 - ▶ Better literature comprehension by doing an actual project implementation.
 - ▶ Learned about new technologies
 - ▶ Got further insight on the interaction strategies and team work skills by using a collaborative development environment.
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Any questions?

