



Group B

Graphical overview of a complete coding project

Carl Bjerggaard

Fredrik Gustafsson

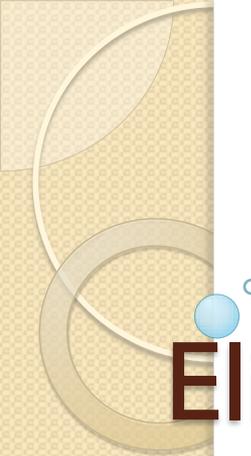
Johan Hallberg

Philip Ridderheim



Project Mission

- **Graphical overview of a complete coding project**
- **Integration with Source Code Management tools**
- **Identification of real-time problems**
- **Presentation of relevant statistics**
- **Usable for both developers and managers**
- **etcetera**

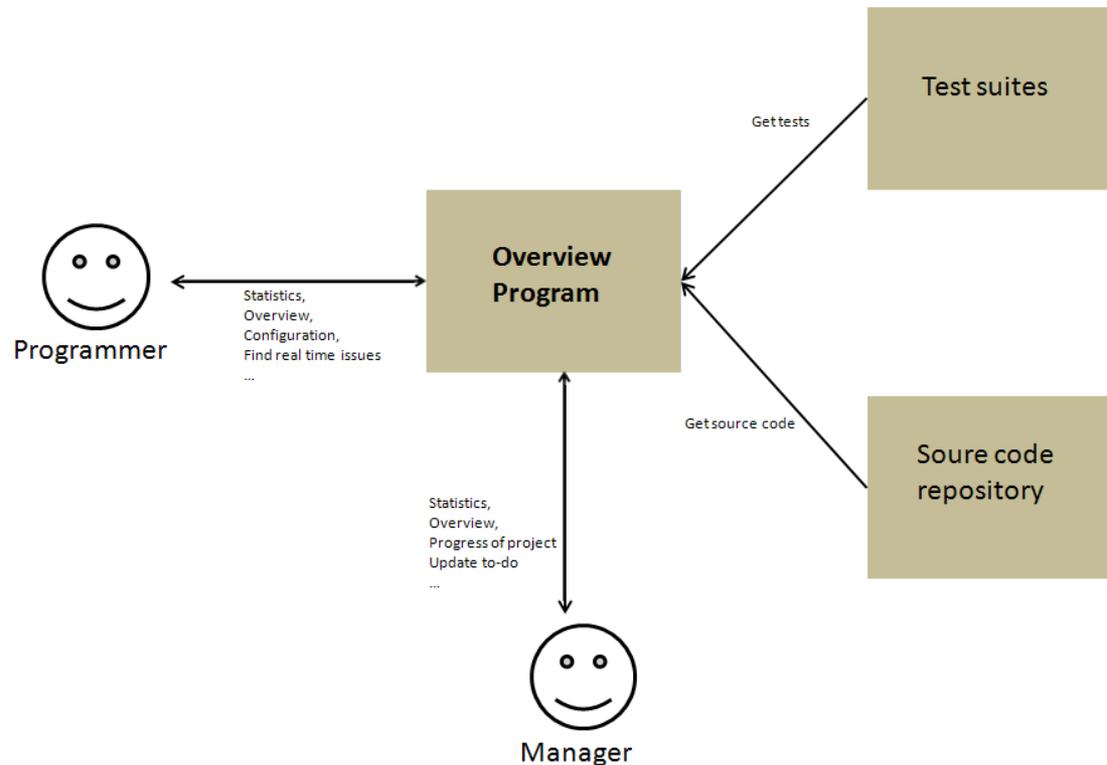


Elicitation

- **Design meeting**
 - PM discussion and design planning
- **Group interview**
 - Structured interview
 - Improved understanding
- **Stakeholder analysis**
 - Improved understanding of stakeholders
- **Document studies**
 - Improved understanding of the domain
 - Improved understanding of alternative solutions
- **Cost/benefit analysis**
 - Project estimated to be lucrative

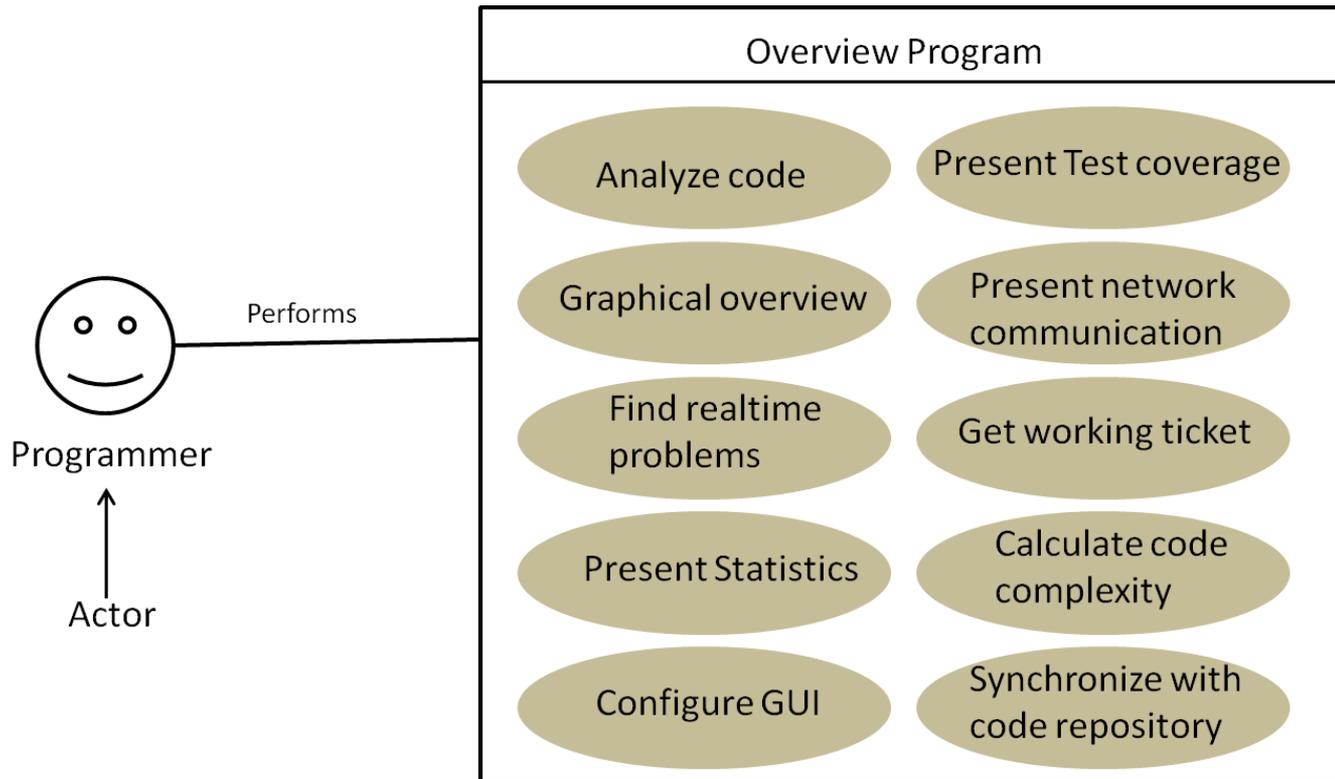
Specification

•Context diagram



Specification

•UML-based use cases





Specification

- **Text-based use cases**
 - To supplement UML-based use cases
- **Event list and function list**
 - To cross-check requirements and find dependencies

Prioritisation

•Cost and benefit estimation per requirement

Prio.	Requirement	Cost	Benefit
4	Functional, code view	1	5
3	Quality, schedule of computation	1	4
3	Functional, code statistic	1	4
2	Quality, usability	3	5
2	Functional, test running	1	3
2	Functional, test results	1	3
2	Functional, support for git	2	4
2	Functional, SCM statistic	2	4
2	Functional, deadcode detection	3	5
2	Data, data storage placement	1	3
1	Quality, uptime	1	2
1	Functional, platform	2	3
1	Functional, language support	4	5
1	Functional, graphical presentation	4	5
1	Functional, code complexity	4	5
1	Data, test placement	1	2



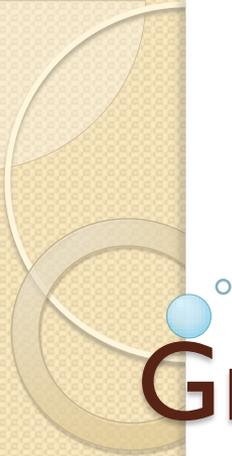
Validation

- **Checklist based validation**
- **Results from Review Report**
 - All features not covered by requirements
 - Lack of communication
- **Validation still in progress...**



Documentation

- **Documentation and traceability**
 - Version Handling (GIT)
- **Formal meeting protocols**
- **Development tools large impact on efficiency**
 - Tools for requirements defining simplifies
 - Learning period for tools should not be underestimated.
- **No part of the documentation is trivial**



Group coordination

- **Role definition and responsibilities**
- **Better planning of meetings**



Elicitation

- **Different customers require different techniques depending on client situation**
- **Client communication is of utmost importance**
 - Faster response times in communication with customers (multiple contacts?)



Requirements

- **Trivial requirements are easy to miss**
- **Detail and depth of requirements specification, hard without knowing developer environment**