

- Material and some slide content from:
- Emerson Murphy-Hill
- Software Architecture: Foundations, Theory, and PracticeEssential Software Architecture

SE2: Introduction to Software Architecture Reid Holmes

INFORMATION SESSION ON GRADUATE STUDIES IN THE FACULTY OF MATHEMATICS FOR 2ND, 3RD AND 4TH YEAR UNDERGRADUATES THURSDAY, JANUARY 17TH, 2013 4:30 - 6:00 PM MC 2066

For those who need to know what Graduate Studies is all about in the Faculty of Math

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Talk to Department Representatives
Ask important questions

Refreshments / Snacks will be served

We will have an overview of what Graduate Studies is all about including a brief description from each unit:
Applied Mathematics
Combinatorics & Optimization
Computational Mathematics
Computer Science
Pure Mathematics

Statistics & Actuarial Science



REID HOLMES - SE2: SOFTWARE DESIGN & ARCHITECTURE

Deliverable 0 Discussion

- MVC, MVVM
- Sparse architecture documentation'
- Readability, maintainability, performance
- Ul design vs system design
- DevOps
- Scrum, Github, and version control



Group Organization





Project Proposal

- Due January 20 @ 0800 to rth.se2@gmail
 - Max 3 slides (+title slide) in PDF format for pitch
- Due January 21 @ 0800 to rth.se2@gmail
 - Project description
 - Two usage scenarios
 - Functional / non-functional requirements
- Project pitches in class on January 21



Project Grading

- Projects will have a difficulty scale applied to them
 - (project + bonus) * scale = final
 - Scale will range between 0.75 and 1.0
 - 5: completeness (compared to proposal)
 - ► 5: utility
 - ► 5: polish
 - 10: difficulty
- Bonus (2% each)
 - best pitch, best demo, multi-platform demo, accepted to app store (by exam date)



And as you can see, our proposal is also fully buzzwordcompliant. 0

Past Project Proposals Interesting projects from other years

CS Advisor Appointment System Team Legendary Apps















Road Trip

Kitchen Design Activity

- Architect a kitchen
 - In your groups, come up with a floor plan for a kitchen.
 - Include any elements you think a kitchen should have.
- 10 minutes to design your kitchen
- 10 minutes to discuss your design with a neighbouring group
- 15 minutes for class discussion



REID HOLMES - SE2: SOFTWARE DESIGN & ARCHITECTURE

Kitchen Requirements

- What are the high-level requirements?
- What systems are involved?
 - What properties do the systems have?
 - How do they interact?
 - How is the kitchen used?



Kitchen Architecture Discussion

- What are the components?
- What are their properties?
- What are their relationships?



Upcoming Deadlines

Project proposal.

Pass/fail.

0800 Friday January 18.

Email rth.se2@gmail

Full description on course web page.

