Other organizational and infra-structural issues of the joint SE course

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2nd Workshop on SEE and RE

Outline

- Exam
- Literature
- Case studies
- Development of slides
- Exercises
Exam

- Assignments
- Oral exam (possibly organized as test 😊)
- Additional project/assignments for additional points?

Literature
Case studies – ideas

- Used during the lectures and assignments
- One case study, additional one for assignments?
- Offer several ones to choose from

Case studies - currently

- Seminar organization
- XCTL (metrics, reverse engineering) and in several assignments
Case studies – future?

- Replace XCTL with Seminar organization (or alternative)
  - Except Reverse engineering and assignments?
- Produce standardized documents for case study to hand them out to students (individual inspection)
- Devise two more case studies
  - Role playing game (Braude)
  - Original one (XCTL?)

Where case studies are used - 1

Seminar organization (or alternative)

- An example of requirements document
- An example of application of function point method
- Basic concepts of the function-oriented view
- Basic concepts of data-oriented view
- Basic concepts of rule-oriented view
- Data-Flow-Diagram hierarchy
- Data Dictionary
- Basic concepts of scenario-based view
- Class diagram
- Use-cases, Examples
- Structured design
- Object-oriented design
- Systematic testing
- Functional testing
- Software metrics
- Reverse engineering (XCTL?)
- Maintenance
Where case studies are used - 2

Seminar organization (or alternative) - documents

- Implementation
- Systematic testing
- Software architecture
- Quality of software development process and its standardization
- Project management
- Configuration and documentation management

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<th>Lecture notes</th>
<th>Versions</th>
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Development of slides

Who started (sup. by K. Bothe)
- finishes
  - slides and lecture notes
    - without version control
    - now

Designated lecturers
- change
  - slides and lecture notes
    - without version control
    - with centralized version control server

Designated persons
- translate
  - slides and lecture notes
    - without version control
    - national

Lecturers
- ???
  - slides and lecture notes
    - ???

Versions

Now
Stable
National
Individual
Development of slides

Who started (sup. by K. Bothe)
finishes
slides and lecture notes
without version control
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Designated lecturers
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Designated persons
translate
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Lecturers
slides and lecture notes
individual

Approved by ...

Approved by ...

Approved by ...

Approved by ...

without version control
with centralized version control server
without version control
without version control
Is this sensible and if so, is it possible?

- Granularity level (level of autonomy) of lecturers/national centers?
- Define strong and weak paths for control, approval, data (slides) flow
- Lecture notes really part of slides? Higher level of autonomicity for lecture notes?

Slide design and organization

- More pictures, less text
- Avoid scanned pictures
- Modular (at least for exchanging one case study for the other)
  - Mark slides with exchangeable content
- Unique identification of slides
  - Internal numbering or
  - Unique slide titles
Additional slide information

- **Change history**
  - Additions, deletions, modifications
  - Separately or through an automatic version control server

- **Lecture notes**
  - In PPT file?
    - Easier change (new slides)
    - Easier organization
  - Separately
    - Easier change (change of lecture notes)