Current OSS activities at NTNU

NordicOSS meeting, Uppsala
4 Nov. 2010

NTNU team
NTNU OSS core team:

Reidar Conradi, professor
Daniela S. Cruzes, postdoc 2009-2013
Anh Nguyen Duc, PhD stud. 2011-2014
Claudia Melo, guest PhD stud., 2011
+ NN
Activities

- Survey on initial Rqmts Adaptation vs. OSS functionality, w/ NTNU, Lund, Torino, ...
- Study of later Rqmts negotiation (w/ NOKIA)
- Writing research proposals (..., RISE, SOFT-BN)
- Planning Nordic masterprogram around OSS
Survey Goals

• Find out about and assess **current** Requirement Engineering (RE) practices, while
  – considering the available and massive amounts of 3\textsuperscript{rd} party OSS components: the “end of RE”??
  – (disregarding COTS ones for simplicity.)
Research Questions in Survey

- **RQ1**: Software/project context.
- **RQ2**: Was the customer available/active during software development?
- **RQ3**: How was component search of the (max. three) most important ones performed?
- **RQ4**: In case of partial match between stated requirements (R) and available components (C). How was the (initial) interaction – not looking at later evolution?
- **RQ5**: How much interaction with the OSS community took possibly place?
Survey Execution

• Mini-questionnaire of 2pp + interview by phone: max 30 min., in English? Reuse some old questions.
• Reuse industrial contacts: 50% response rate?, 1/3 from small companies (<20), medium (20-99), and “large” (100-), draw 6 at random from each category.
• Need N >=10 responses in each co-worker country:
  – NTNU, Norway (coord.), Daniela Cruzes, R. Conradi (OK)
  – LTH, U.Lund: Martin Høst (OK)
  – Politecnico di Torino: Marco Torchiano (OK)
  – ITU, Copenhagen: Mohammad Ali Babar?
  – PUC, Barcelona: Claudia Ayala?
Other Projects

• Requirements practice in OSS Projects:
  – Investigates actual interaction (NOKIA) between community and projects wrt. rqmnt evolution.
  – Master project, similar.

• PhD guest-stud. Claudia Melo: using Brazil interviews on agile methods and productivity.

• Masterprogram on Applied Global Software Development: w/ Gothenburg and Tampere – but NTNU was forced to withdraw!
Some project proposals

- SOFT-BN (2011-2014): agile, OSS, ESE. NTNU (coord.) + 3 Brazilian univ. w/ their industrial contacts.
  - PS: Brazil educates 6500 PhDs in technology per year.
Plans ...

• How to introduce OSS practices in education? Project types: internal vs. external customer?

• Applications:
  – Smartgrids (REN-ENERGI nat’l program?)
  – Software Portfolio Management (Telenor?)
  – Software Innovation (Chesbrough et al.?)
  – ...