Requirements Engineering II

Assignment 2

Requirements Engineering

in Social Networks

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Eliciting requirements with end-users

- RE Tool-support
  - Professional tools (sometimes) are too complicated for end-users

  → No direct involvement possible!?

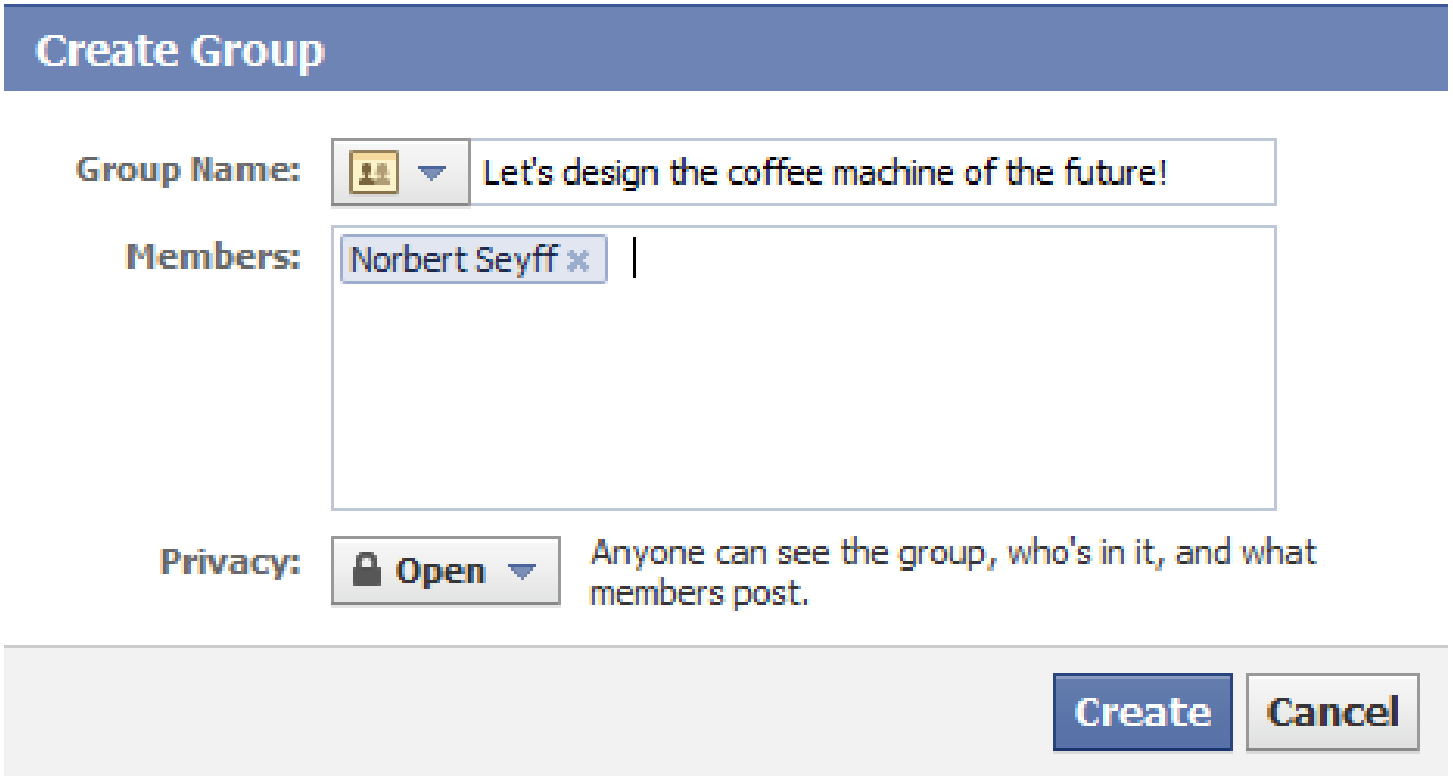
  - Idea: build end-user friendly RE tools with mechanisms they are already “familiar” with

  → e.g. Email, Facebook!?

Should we use Facebook?

Building the
Coffee Machine of the future

Create group



Provide vision statement

We are currently gathering ideas about what we should include in the coffee machine of the future. What functionality it should have, what design issues matter, and so on. You have been invited to join the discussion and provide and discuss ideas.

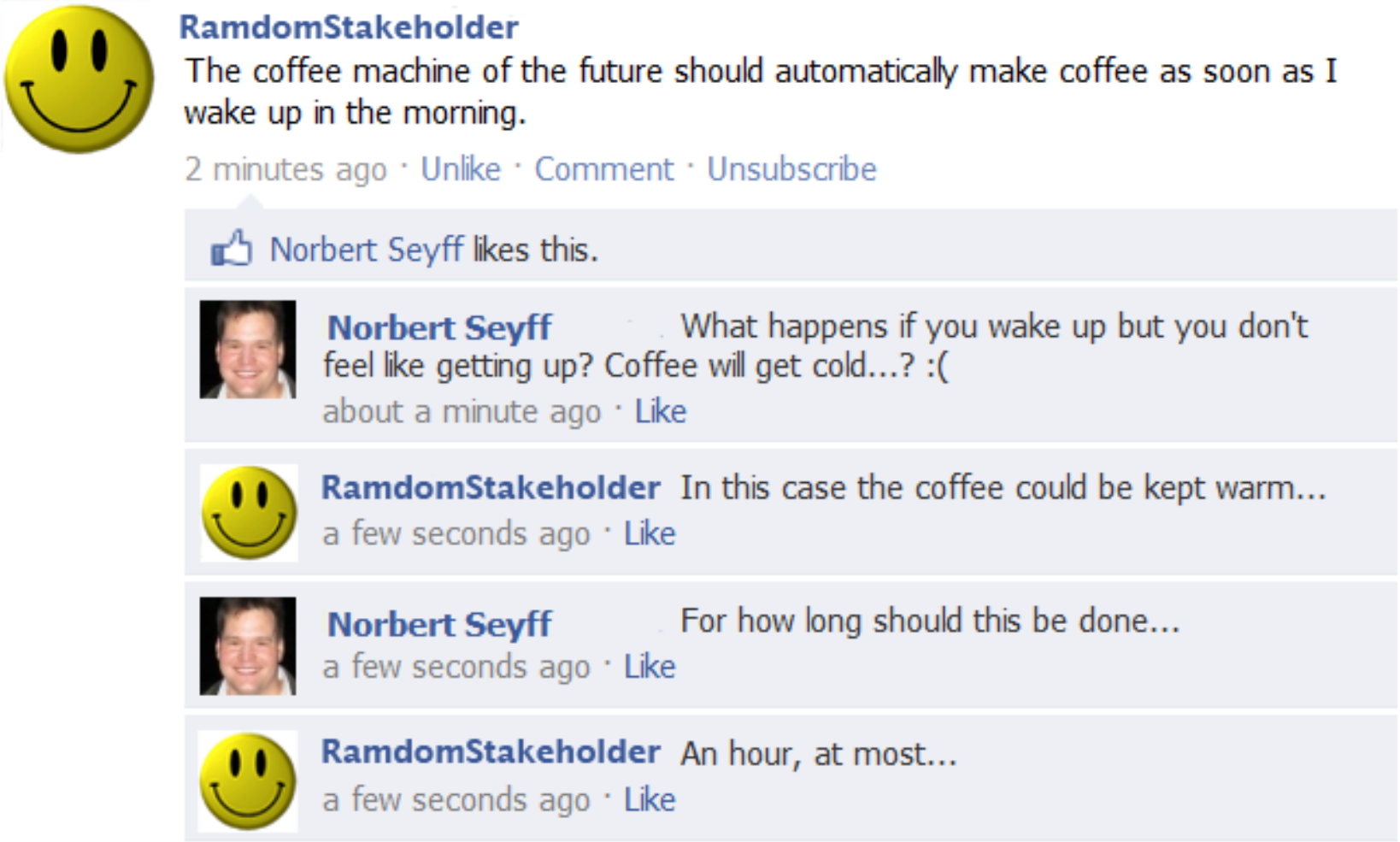
Participating is fairly simple: for each of your ideas, create a wall post, in which you briefly describe your ideas. Have a look at existing posts to get inspiration and to see what other people wish for. Before you post your ideas, please check whether someone else has already posted the same idea.

Use the comment function to discuss ideas with other group members. If you like an idea or a comment, please use the *like* button.

Invite stakeholders

Requirements Elicitation

Requirements Negotiation



Requirements Priotization

Conclusion

We might need more sophisticated tool and process support!

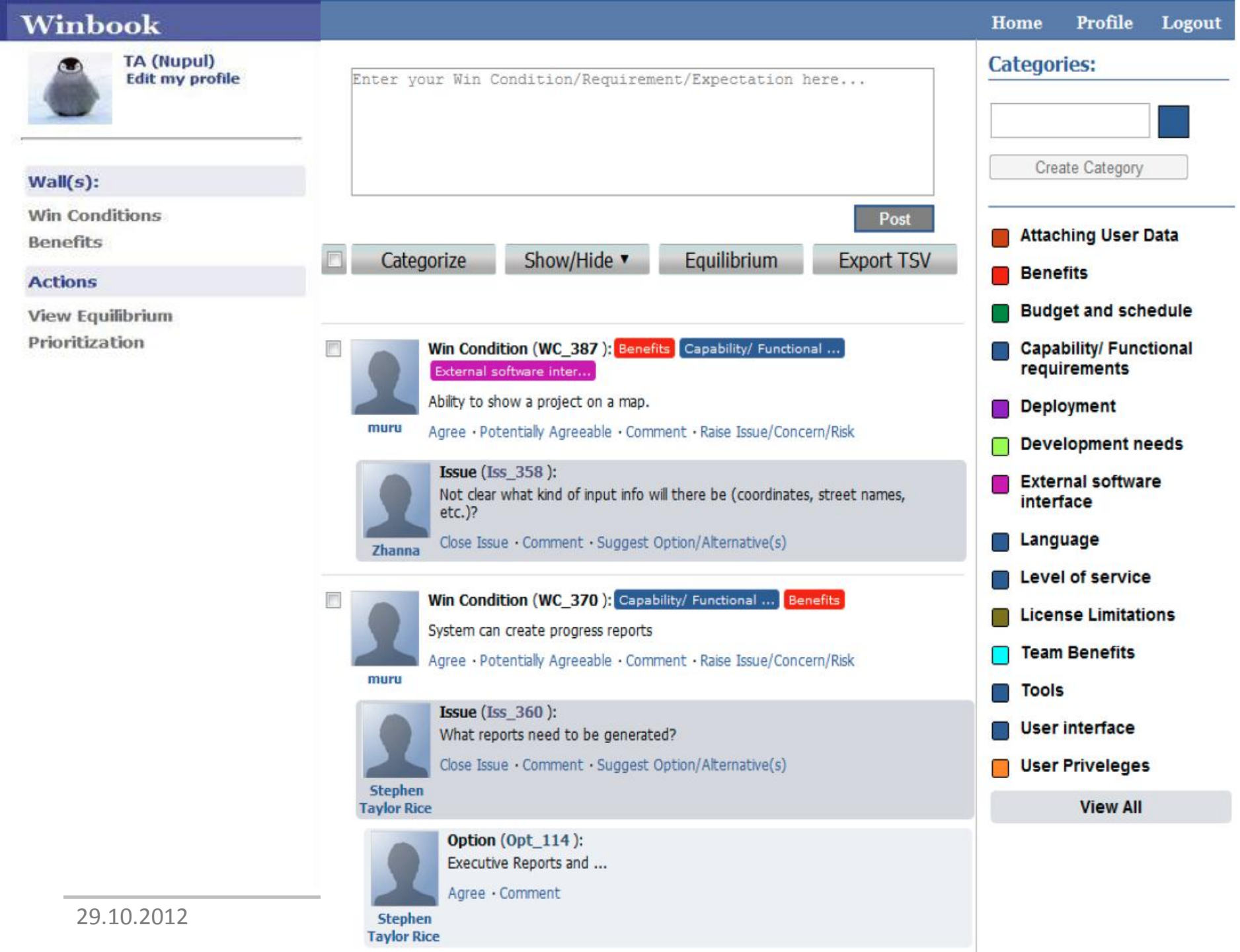
EasyWinWin Negotiation Process

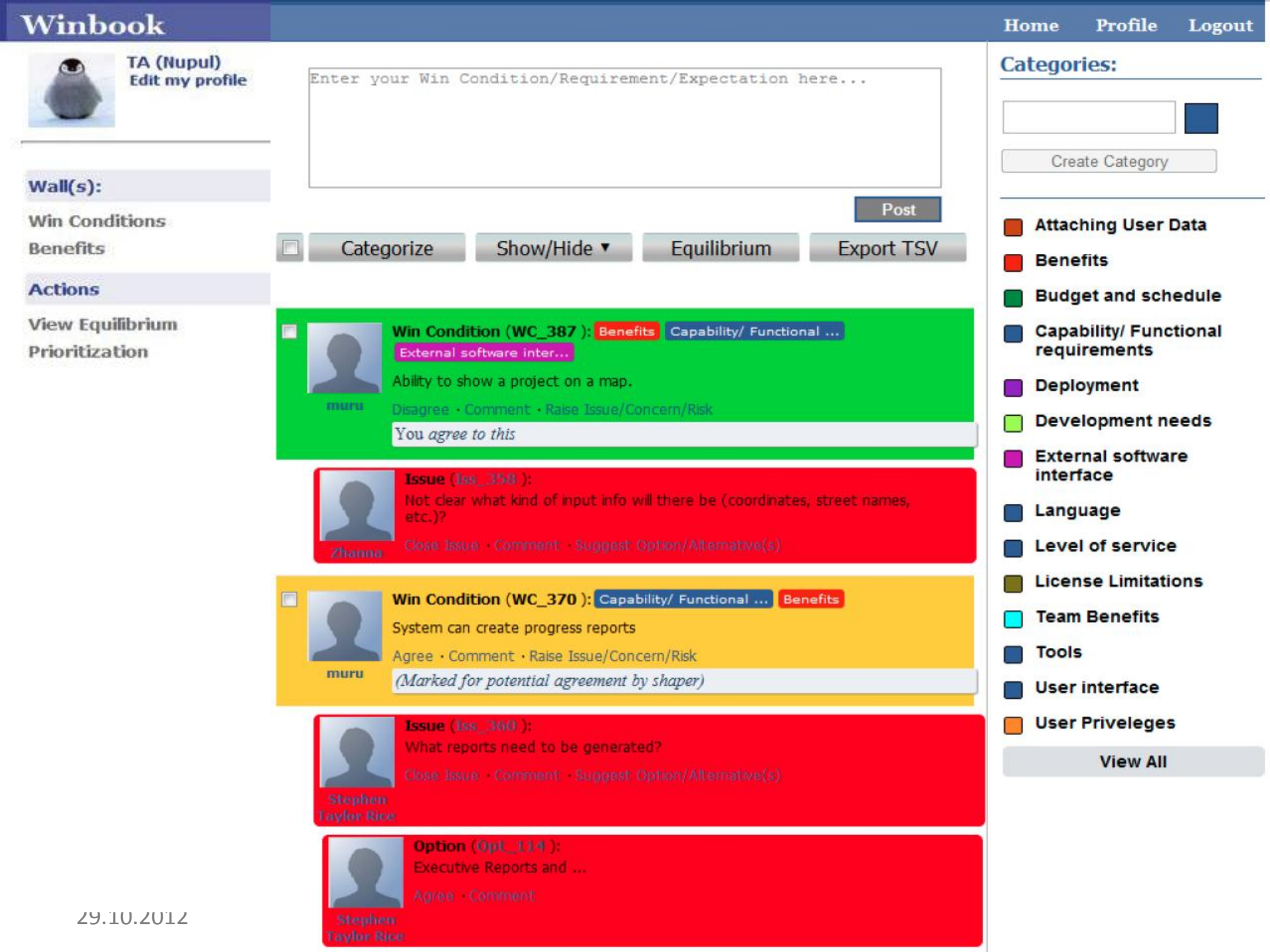
- (0) Identify Success-critical Stakeholders
- (1) Review and expand negotiation topics
- (2) Brainstorm stakeholder interests
- (3) Converge on Win Conditions
- (4) Capture a glossary of Terms
- (5) Prioritize Win Conditions
- (6) Reveal Constraints and Assumptions
- (7) Identify Issues and Options
- (8) Negotiate Agreements

WinBook

- Developed at University of Southern California
- Works like Facebook groups (wall posts, comments, “likes”)
- Requirements can be categorized (like labels in GMail)
- Supports the EasyWinWin Requirements Negotiation Process

- Tutorial: http://youtu.be/xFUj9Gj5XTU


Winbook
Home
Profile
Logout
TA (Nupul)
Edit my profile
Wall(s):
Win Conditions
Benefits
Actions
View Equilibrium
Prioritization
Enter your Win Condition/Requirement/Expectation here...
Post
Categorize
Show/Hide
Equilibrium
Export TSV
Win Condition (WC_387): Benefits Capability/ Functional ... External software inter...
Ability to show a project on a map.
muru
Agree · Potentially Agreeable · Comment · Raise Issue/Concern/Risk
Issue (Iss_358):
Not clear what kind of input info will there be (coordinates, street names, etc.)?
Zhanna
Close Issue · Comment · Suggest Option/Alternative(s)
Win Condition (WC_370): Capability/ Functional ... Benefits
System can create progress reports
muru
Agree · Potentially Agreeable · Comment · Raise Issue/Concern/Risk
Issue (Iss_360):
What reports need to be generated?
Stephen Taylor Rice
Close Issue · Comment · Suggest Option/Alternative(s)
Option (Opt_114):
Executive Reports and ...
Stephen Taylor Rice
Agree · Comment
Categories:
Create Category
Attaching User Data
Benefits
Budget and schedule
Capability/ Functional requirements
Deployment
Development needs
External software interface
Language
Level of service
License Limitations
Team Benefits
Tools
User interface
User Priveleges
View All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Win Condition (WC_387): Benefits Capability/ Functional ... External software inter...
Ability to show a project on a map.
muru
Disagree · Comment · Raise Issue/Concern/Risk
You agree to this
Issue (Iss_358):
Not clear what kind of input info will there be (coordinates, street names, etc.)?
Zhanna
Close Issue · Comment · Suggest Option/Alternative(s)
Win Condition (WC_370): Capability/ Functional ... Benefits
System can create progress reports
muru
Agree · Comment · Raise Issue/Concern/Risk
(Marked for potential agreement by shaper)
Issue (Iss_360):
What reports need to be generated?
Stephen Taylor Rice
Close Issue · Comment · Suggest Option/Alternative(s)
Option (Opt_114):
Executive Reports and ...
Stephen Taylor Rice
Agree · Comment
Categories:
Create Category
Attaching User Data
Benefits
Budget and schedule
Capability/ Functional requirements
Deployment
Development needs
External software interface
Language
Level of service
License Limitations
Team Benefits
Tools
User interface
User Priveleges
View All

Your task

Requirements elicitation and negotiation

1. Each group chooses one topic, for which you act as “development team”.
   - For this topic, one of the team members takes over the role of the *shaper (Moderator, Requirements Engineer).*
   - The task of the shaper is to moderate the discussion (provoke new requirements, ask for clarifications, point out issues, motivate the stakeholders, etc.)
   - The other team members act as members of the development team and take over roles such as Software Architect, Tester, Usability Expert, Project Manager (Viewpoints).
   - As soon as the discussion requires input from a certain “perspective” (e.g., project management), the respective team member has to provide an answer (reveal issues and provide options – also by making assumptions).
2. All members of a team (but the shaper) also act as stakeholders for the two other topics.
   - They provide requirements and prioritize them. Furthermore they should also try to identify issues and options.

Come up with many innovative requirements ☺

What are your findings?

Present the findings of your group

Guiding questions:

- How many requirements did you get? Did you get a prioritized list of requirements?
- What kind of requirements did you get? Goals? Functional requirements? Non-functional requirements? (If so, what kind of?)
- How do you assess the quality of the gathered requirements (i.e. are requirements complete, unambiguous, understandable, etc.)?

- How much negotiation did take place? Did stakeholders converge on Win conditions?
- How did the discussion evolve over time? (e.g. all requirements within first 24 hours…)

- What were your experiences with the WinBook tool? What did you like / dislike? What could be improved?
- In what situations would you apply it? Why?

- Show us some of your favorite requirements from your topic!

Topic 1: Personal Health App

You run a company that has made a good reputation for creating innovative mobile apps.

A well-known health insurance company has now approached you with the task of creating a mobile app that helps people maintain a healthy lifestyle.

As the health insurance company has given you a lot of freedom, you want to talk to potential end-users (customers of the insurance company) regarding their needs and requirements towards such a mobile app.

Your task is now to gather requirements regarding the Personal Health App.

Topic 2: Tourism App

You run a company that has made a good reputation for creating innovative mobile apps.

The tourist office of the city of Zurich has now approached you with the task of creating a mobile app that helps tourists to get around in the city of Zurich. It should become an innovative product that addresses the true needs of tourists and that outperforms all existing solutions of other cities.

In order to find out the real needs and requirements of your target group towards your new system, you decide to perform requirements elicitation with tourists.

Your task is now to gather requirements for the Zurich Tourism App.

Topic 3: „Friend Finder“ App

You run a company that has made a good reputation for creating innovative mobile apps.

Several people have approached you with the desire to have an app that allows them to get to know new people. In particular to find people that share the same interests and would like to perform joint activities. Such activities might also be spontaneous, e.g. someone would like to do some “jogging” Tuesday afternoon and wants to find people to join in.

You have gathered a bunch of end-users who are willing to share their needs and wishes regarding this mobile app. Your task is to gather requirements for this project.

Next steps

- Read the papers and watch the WinBook tutorial (http://youtu.be/xFUj9Gj5XTU)
- WinBook will be ready by Tuesday, 30th October.
- Open a WinBook account using your **university email address (@uzh.ch)**
  - http://pattaya.usc.edu:8080/Winbook
- As soon as you have joined WinBook, you will see the groups we created for you
  - UZH-2012-01 University of Zurich - Team 01 → Topic "Personal Health App"
  - UZH-2012-02 University of Zurich - Team 02 → Topic "Tourism App"
  - UZH-2012-03 University of Zurich - Team 03 → Topic "Friend Finder App"

Next steps

- Start the discussions on WinBook
  - Again, please be aware that if you are not the shaper you have two duties:
  - A) you are a potential end-user and actively communicate requirements for the other topics
  - B) within your topic, you are a member of the “development team” (e.g., tester) and you participate in this discussion from that perspective
- Final comments
  - Start as early as possible
  - Do not forget the final presentation
  - Moderation and stakeholder management is crucial for this task!

Questions

If you have any question, please send a message to
Norbert Seyff (nseyff@gmail.com) and
Kevin Caluser (uni@caluser.ch)