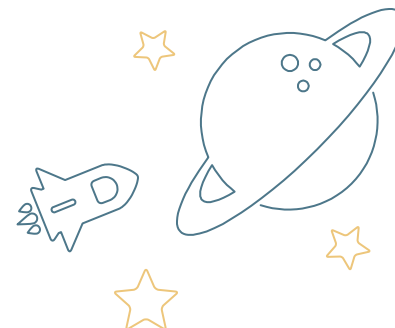




Using popular social network sites to support requirement elicitation, prioritization and negotiation

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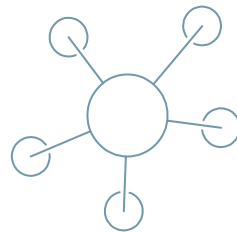


Agenda

- ❖ Authors
- ❖ Published
- ❖ Citation
- ❖ Domain Problem
- ❖ Overview of The Research
- ❖ Proposed Method
- ❖ Evaluation Study Details
- ❖ Research Answer and Threats to Validity
- ❖ Future Work
- ❖ Comment and Suggestion



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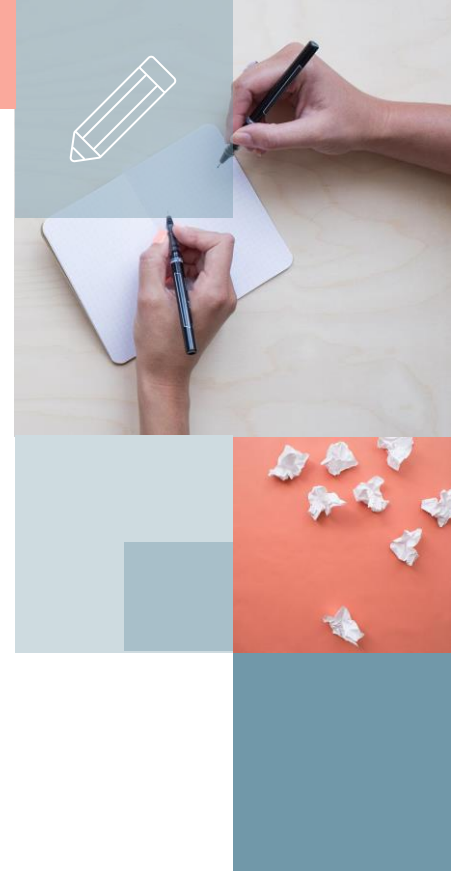
Published

Journal of Internet Services and Applications 2015, 6:7

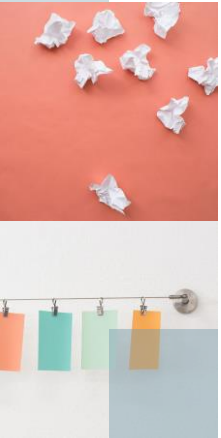
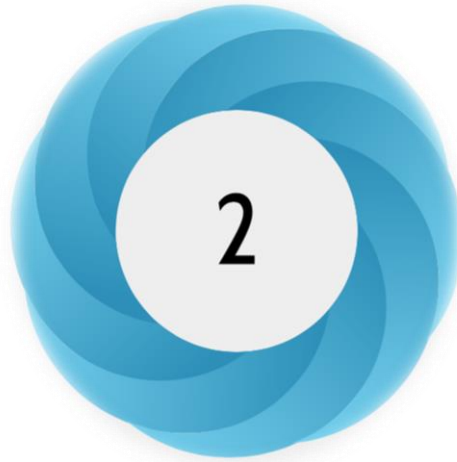
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Domain Problem

RE Approach do not sufficiently support non-traditional contexts such as

- ❑ Mobile Computing
- ❑ Cloud Computing
- ❑ Software Ecosystems



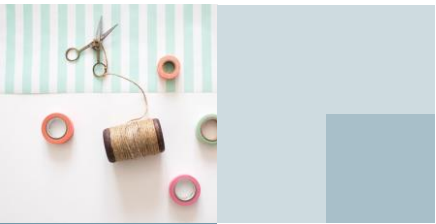
Overview of The Research

RQ1 : Can a social network site support requirements elicitation, prioritization and negotiation?

RQ2 : What are the benefits of using a social network site approach compared to existing elicitation, prioritization and negotiation techniques?

RQ3 : What are the challenges and limitations of using a social network site for requirements elicitation, prioritization and negotiation?



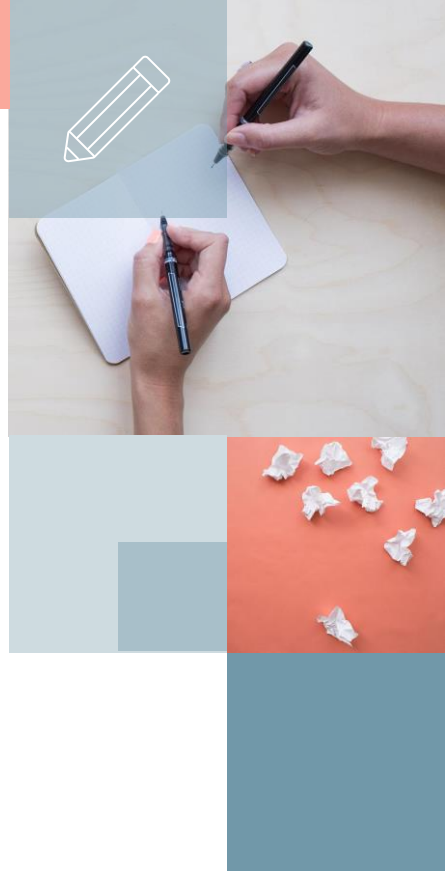


Proposed Method



Prepare Activities

- ☐ Set up a space for discussion.
- ☐ Provide key informaton about the project.





Implement RE Activities



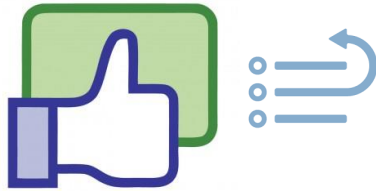
Invitation of participants



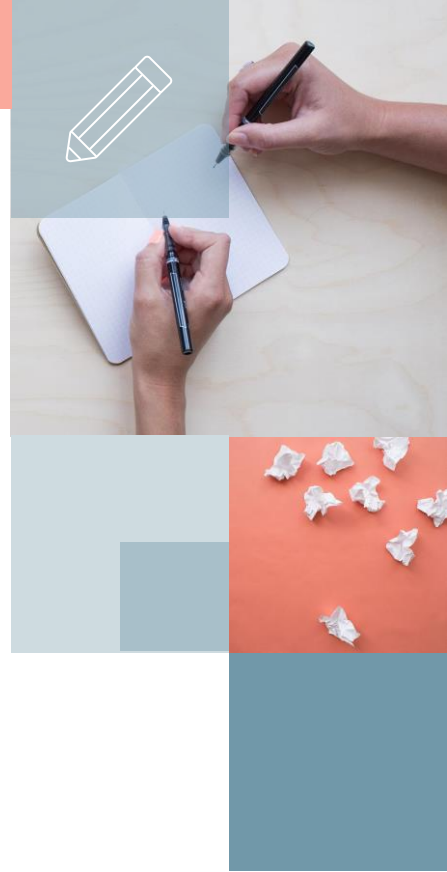
Participants brainstorm ideas



Participants discuss ideas

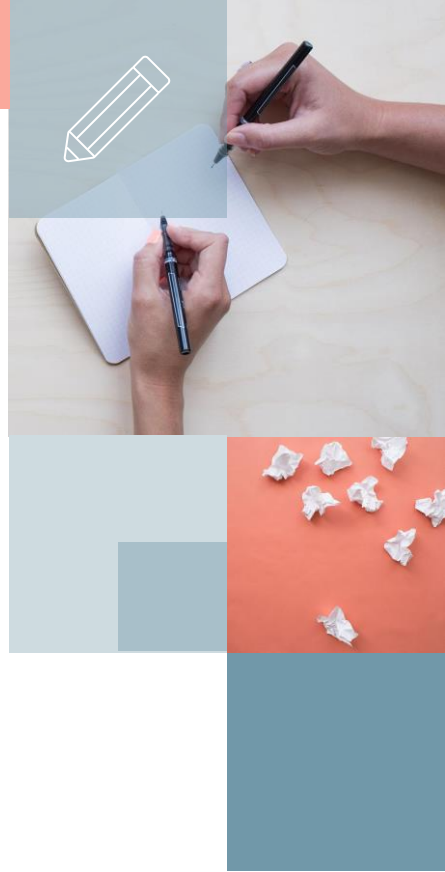


Participants approve and prioritize ideas

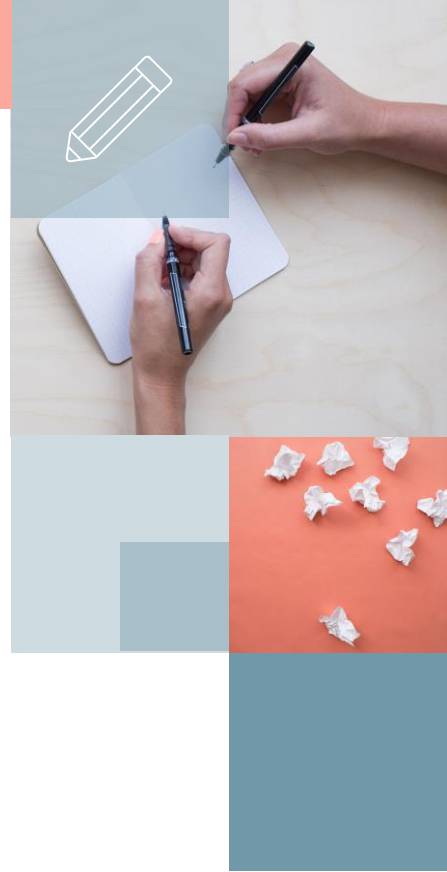


Analysis and Follow-up

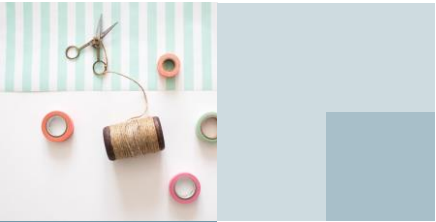
- ❑ Transcribe ideas into prioritized requirements.



Select Social Network



Executing



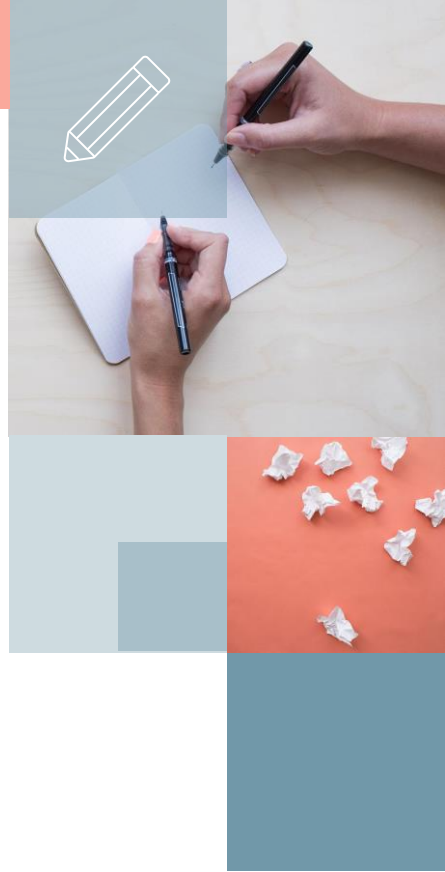
Evaluation Study I

- ☐ Participants know RE basic.
- ☐ Participants can select any kind of project for performing requirement elicitations.
- ☐ Participants should follow CPRE criteria.



Evaluation Study I (Result)

- ☐ End users were able to follow the process and communicated their needs.
- ☐ Moderation was insufficient.
- ☐ Most of the content was created within the first days.
- ☐ Prioritization results were insufficient.
- ☐ No snowball effect.



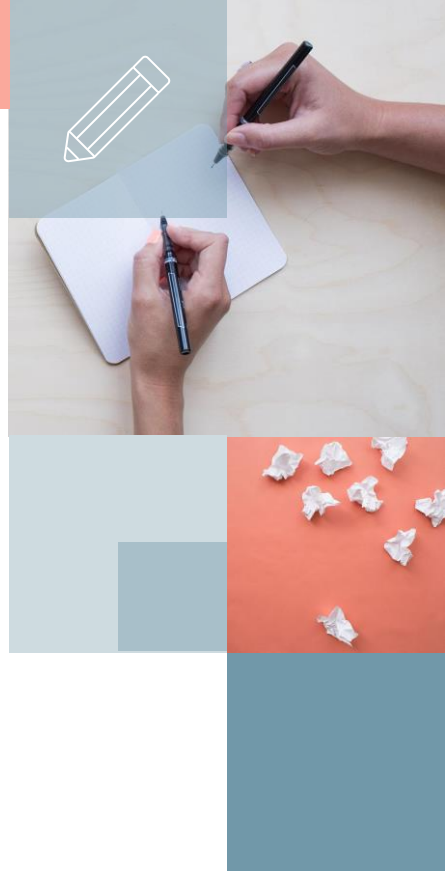
Evaluation Study II

- ☐ Participants advance knowledge in RE.
- ☐ Force participants to select 2 Topics.
 - ✓ Fridge of the Future (FoF)
 - ✓ Smartphone of the Future (SoF)
- ☐ Participants should invite friend dramatically.



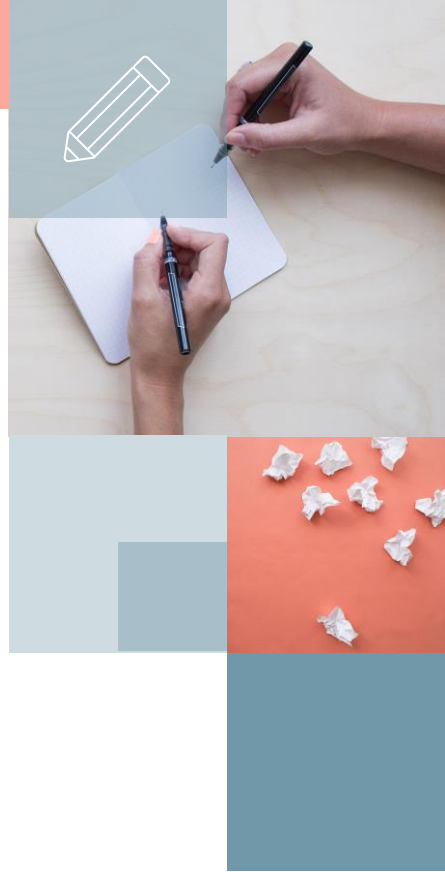
Evaluation Study II (Result)

- ☐ No prerequisites required for participants.
- ☐ Factors improving success.
- ☐ Consolidation and prioritization.
- ☐ Again, no snowball effect
- ☐ Friendship and interests made friends participate.
- ☐ Knowledge and skills.



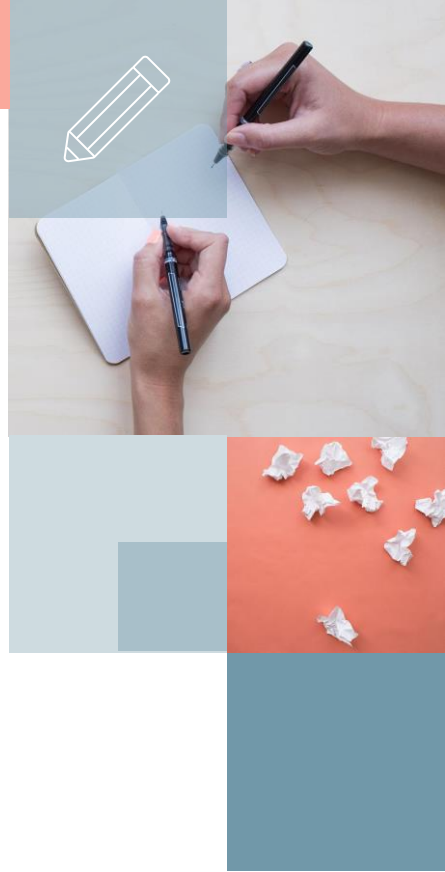
Evaluation Study III

- ☐ Participants don't have RE approach experience.
- ☐ Participants can select individual topic.
- ☐ Invite stakeholders – friend or fellow students.



Evaluation Study III (Result)

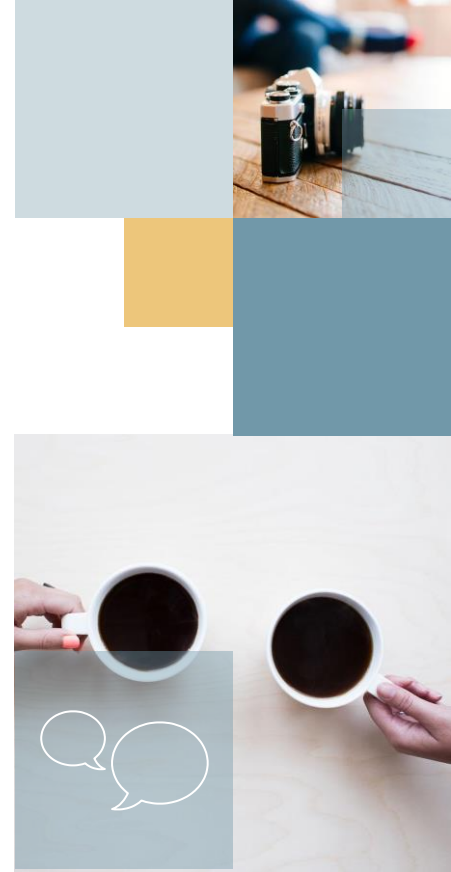
- ☐ A motivated moderator is success factor.
- ☐ Students were satisfied.
- ☐ Sense of duty and interest made students participate.
- ☐ Minor differences between friends and fellow students.
- ☐ Requirements prioritization worked.
- ☐ The discrepancy of the Smartphone group.



Research Answer

RQ1 : Can a social network site support requirements elicitation, prioritization and negotiation?

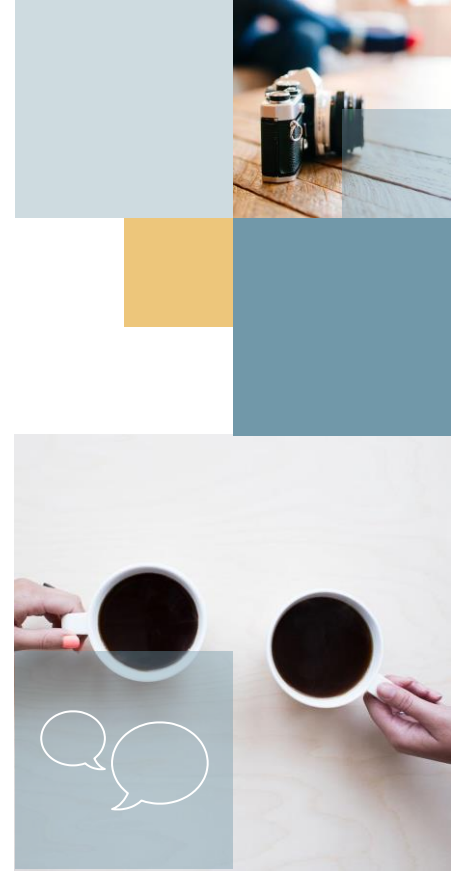
Using as SNS-based RE approach could increase end user involvement in RE and support projects.



Research Answer(Cont.)

RQ2: What are the benefits of using a social network site approach compared to existing elicitation, prioritization and negotiation techniques?

SNS approach supports the gathering of needs without adding any learning overhead to users.



Research Answer(Cont.)

RQ3: What are the challenges and limitations of using a social network site for requirements elicitation, prioritization and negotiation ?

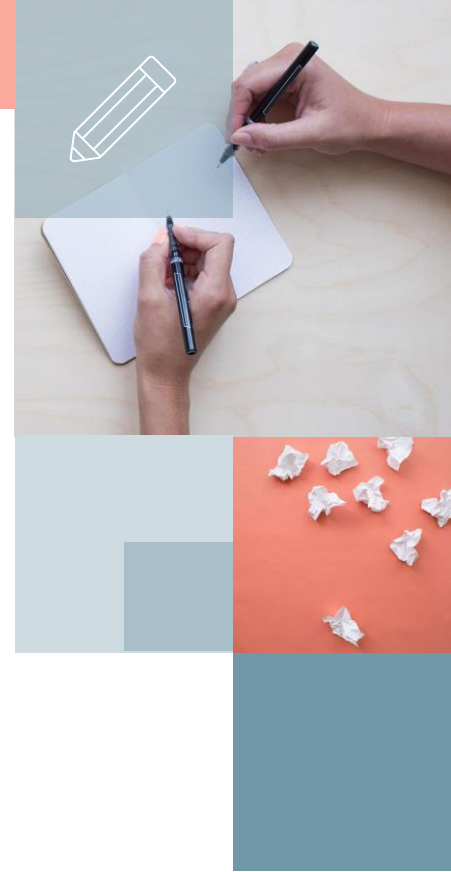
Challenges

- Using Facebook posts to bring brainstorming.
- Using Facebook likes allow the communication of approval and support requirement prioritization.
- Comments to posts support requirement negotiation.



Threats to **Validity**

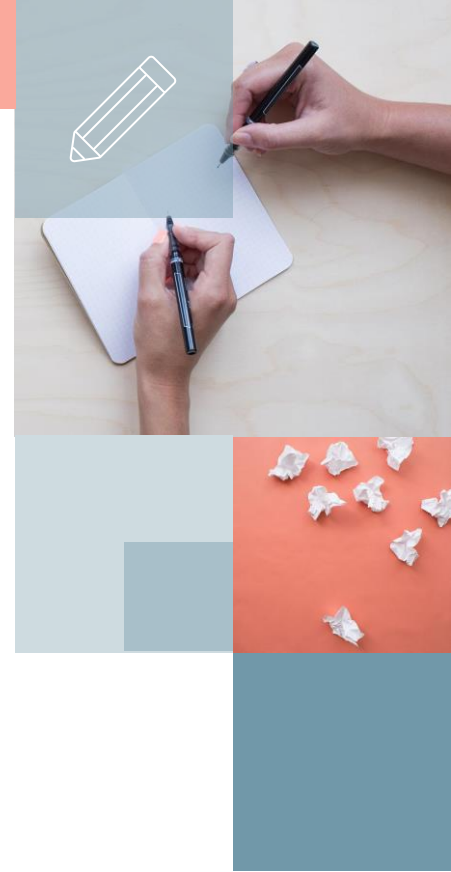
- Heavily relied on the participation of RE students and friend of moderators.
- Uncontrolled environment in private groups.
- The results cannot make statistically significant claims.



Future Work

Research should be :

- Better understanding risks and issues
- Evaluation of other suitable SNS
- Evaluation in real-world projects
- Exploring the motivation of end users



Comment and Suggestion

PROS :

- Applied this approach to selected groups
- Applied research in new challenging area

CONS:

- Unknown risks
- Not support in real-world situation



Thank You ! 

Any questions?

