Conducting Studies with Experts

Supervisors:
Alena Naiakshina
Anastasija Danilova
About us …

• Our research field:

Usable Security and Privacy for Developers & Administrators
Overview Topics

1. Investigating & designing usability scales for APIs
2. Is the developer the enemy?
3. Investigating security advice
4. Plugins for IDEs
5. Own ideas
Topic 1: Investigating & designing usability scales for APIs

- Comparing different usability scales
- Which one applies best for developer?
- Which one applies best for which use-case?
- Choosing the number of categories in Agree–Disagree Scales
- Examine related work and summarize, e.g., System Usability Scale (SUS)
System Usability Scale

Please rate from Strongly Agree to Strongly disagree:

1. I think that I would like to use this system frequently.
2. I found the system unnecessarily complex.
3. I thought the system was easy to use.
4. I think that I would need the support of a technical person to be able to use this system.
5. I found the various functions in this system were well integrated.
6. I thought there was too much inconsistency in this system.
7. I would imagine that most people would learn to use this system very quickly.
8. I found the system very cumbersome to use.
9. I felt very confident using the system.
10. I needed to learn a lot of things before I could get going with this system.
Literature

Literature at least to read:


- Find more....
Topic 2: Is the developer the enemy?

"Developers Are Not The Enemy! The need for usable security APIs"

vs.

"The developer is the enemy."

• Conduct research and answer the above question...
Literature

Literature at least to read:


- Green, Matthew, and Matthew Smith. "Developers are not the enemy!: The need for usable security apis." (http://mattsmith.de/pdfs/DevelopersAreNotTheEnemy.pdf)

- Find more....
Topic 3: Investigating security advice

- What kind of advice has been presented in the literature? => Form taxonomy
- How do developers react to security advice: warnings, help etc.? 
- Examine all work on this topic
Literature

• Developers Deserve Security Warnings, Too: On the Effect of Integrated Security Advice on Cryptographic API Misuse
  
  *Peter Leo Gorski and Luigi Lo Iacono, Dominik Wermke and Christian Stransky, Sebastian Möller, Yasemin Acar, Sascha Fahl*

• Do developers read compiler error messages?
  
Topic 4: Plugins for IDEs

- Examine literature on different plugins for IDEs
  - What is the goal of the plugins?
  - Which kind of plugins are there?
  - Which techniques are common to increase visibility?
  - How are the plugins evaluated?
Own ideas

- Any **own ideas** for a project in Usable Security and Privacy for developers/admins?

**GREAT!**

- We’d love to work with you on that!
Apply

• Please send your exposé to:
  
  naiakshi@cs.uni-bonn.de or danilova@cs.uni-bonn.de

**Deadline for exposé: 2nd October**

• On the **5 October** you will be informed whether you were chosen/not chosen for your favourite lab topic
• **Register deadline for the lab in BASIS:** 31.10.2018