

# An interface for anonymization of personal stories

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# Background



# The study

- What are the requirements for an anonymization system?
- How could such a system be designed?

# Data collection

- Interviews
- Competitors/similar systems<sup>1</sup>
- Previous work in the project

1) Povlsen, C. ), Jongejan, B. ), Hansen, D. ), & Simonsen, B. ). (2016). Anonymization of Court Orders. *Iberian Conference On Information Systems And Technologies, CISTI, 2016-July*(Proceedings of the 11th Iberian Conference on Information Systems and Technologies, CISTI 2016)

# Data analysis

- Affinity diagram

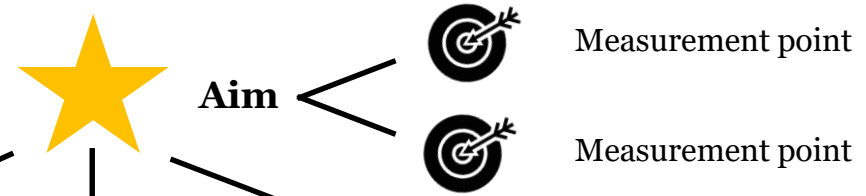


# Defining requirements

- Creating a product that is valuable to use
- Effect map<sup>2</sup>

2) Ottersten, I., Balic, M., & Corrigan, P. (2007). Effect managing IT. Malmö : Liber, 2007.

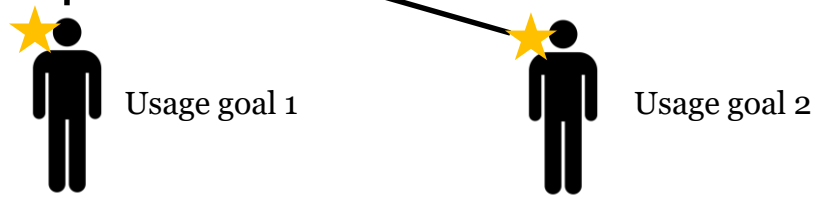
Why?



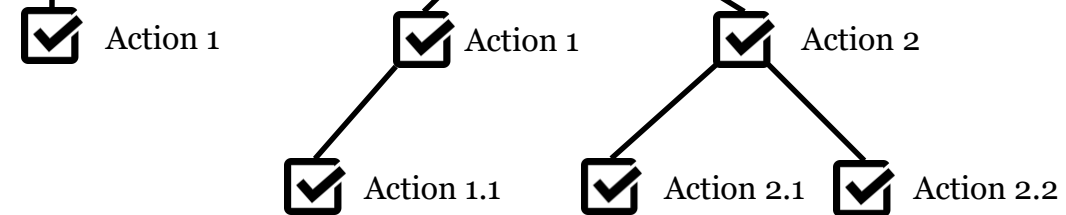
Who?



What?



How?



# Main target groups and usage goals

- Regular users
  - Performs most of the anonymization
- Censor Editor
  - Reviews edited documents before publication
- Usage goal: Ability to quickly anonymize a text/document
  - Easily identify sensitive information
  - Easy to replace/edit a word
  - Edited words should be clearly shown



# The prototype



- Highlighting
- Suggesting







Hej.

Här kommer min berättelse..

MITT LIV SOM FARMACEUT från pillertrillning till radiofarmaka..

Jag heter **Mona Alfredsson.**   

Är född **1938**    i **Bromma församling**    i **Stockholm.**   

Flyttade till **Bromsten**    i **Spånga**    **1945.**   

Min pappa var ingenjör och mamma sjuksköterska.



Min syster blev sjuksköterska.

Mamma tyckte att farmaceut skulle passa mig bättre och så blev det.

Under gymnasietiden kunde man få information om olika yrken.

# The prototype

- Rejecting suggestions

Tog studenten 1957.  År 3   
Stack iväg med pojkvännen till Paris på motorcykel direkt

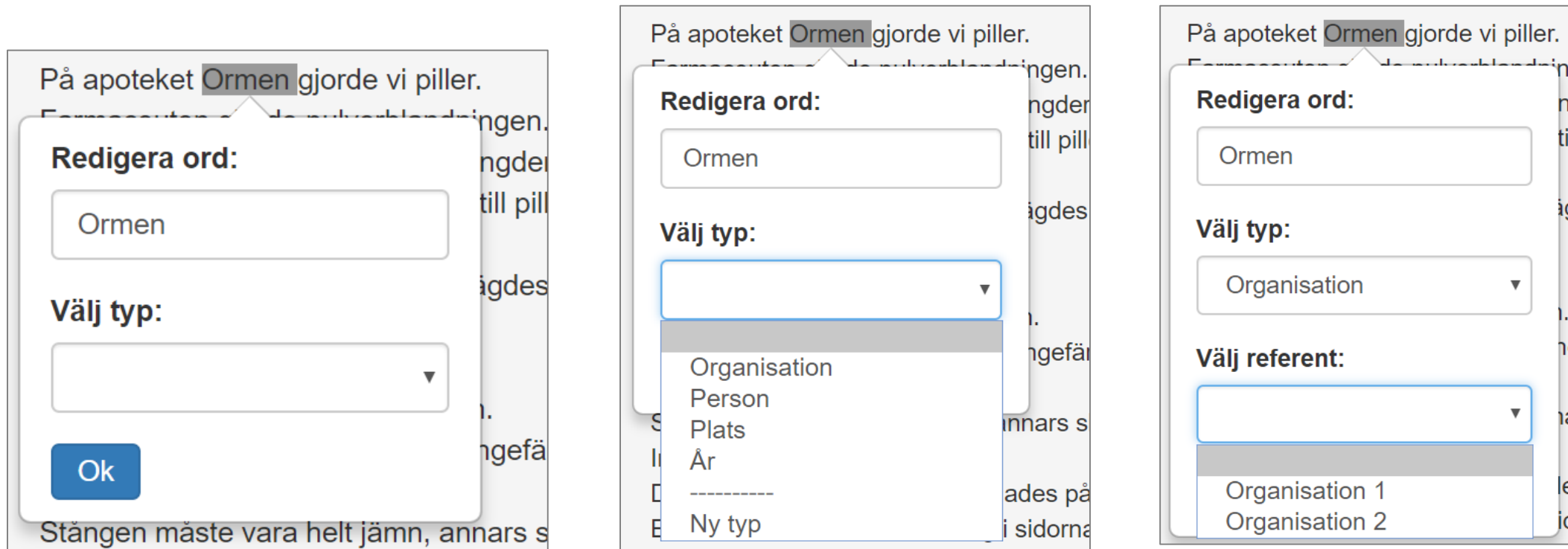
# The prototype

- Accepting suggestions

Började som elev på apoteket Ormen i     hösten      
Apotekare     var innehavare.


# The prototype

- Editing non-suggested words



# The prototype

- Editing non-suggested words

På apoteket Ormen  Organisation 2 ▾ gjorde vi piller.  
Farmaceuten gjorde pulverblandningen.

# Testing the design solution

- Usability test
  - 3<sup>1/2</sup> participants
  - Time to anonymize a text

# Comparative measures

- Microsoft Word vs Prototype
  - Same text
  - Same task
  - Different editors

# Results and Feedback

- Quicker
- More words selected for anonymization
- Clutter and difficult to read
- Buttons had no clear function
- Missing an overview of referents



Thank you!

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