

LFE Medieninformatik • Silvia Peter  
Diploma Thesis Final Presentation

# TravelDiary: Supporting Storytelling and Sharing of Travel Experience

Responsible Professor: Prof. Butz  
Supervisor: Yaxi Chen

27.04.2010





# Agenda

- Introduction
- Related Work
- TravelDiary1
- Concept Development
- Interface
- Implementation
- Evaluation
- Future work

## Related Work

- Organization and searching of photos are based on event and time [Kirk et al., Miller and Edwards, Rodden and Wood].
- Storytelling and sharing are the most common and enjoyable uses of photos [Balabanović et al., Crabtree et al., Frohlich et al., Rodden and Wood].



Van House et al.:Photo Sharing

# Related Work

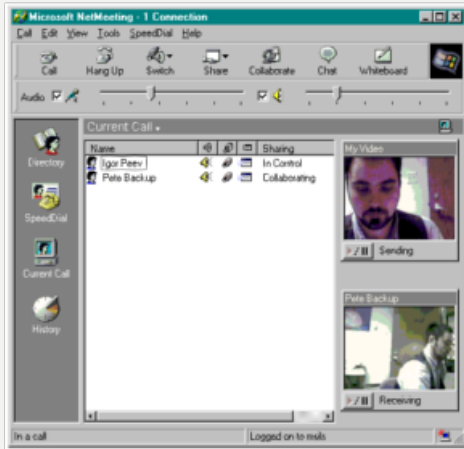


Shen et al.: PDH Table

	SAME TIME	DIFFERENT TIME
SAME PLACE	Prints Slides & projector <b>CO-PRESENT SHARING</b>  <i>Photo viewing software &amp; devices</i>	Shoeboxes Albums & frames <b>ARCHIVING</b>  <i>CD-ROM</i> <i>PC filestore</i> <i>Photo website</i>
DIFFERENT PLACE	Telephone <b>REMOTE SHARING</b>  <i>Application sharing</i> <i>Instant messaging</i> <i>Video conferencing</i>	Mail <div style="border: 2px solid red; padding: 2px;"><b>SENDING</b></div>  <i>Email attachment or website reference</i> <i>Internet photo frames</i>



Boll et al.: CeWe Color



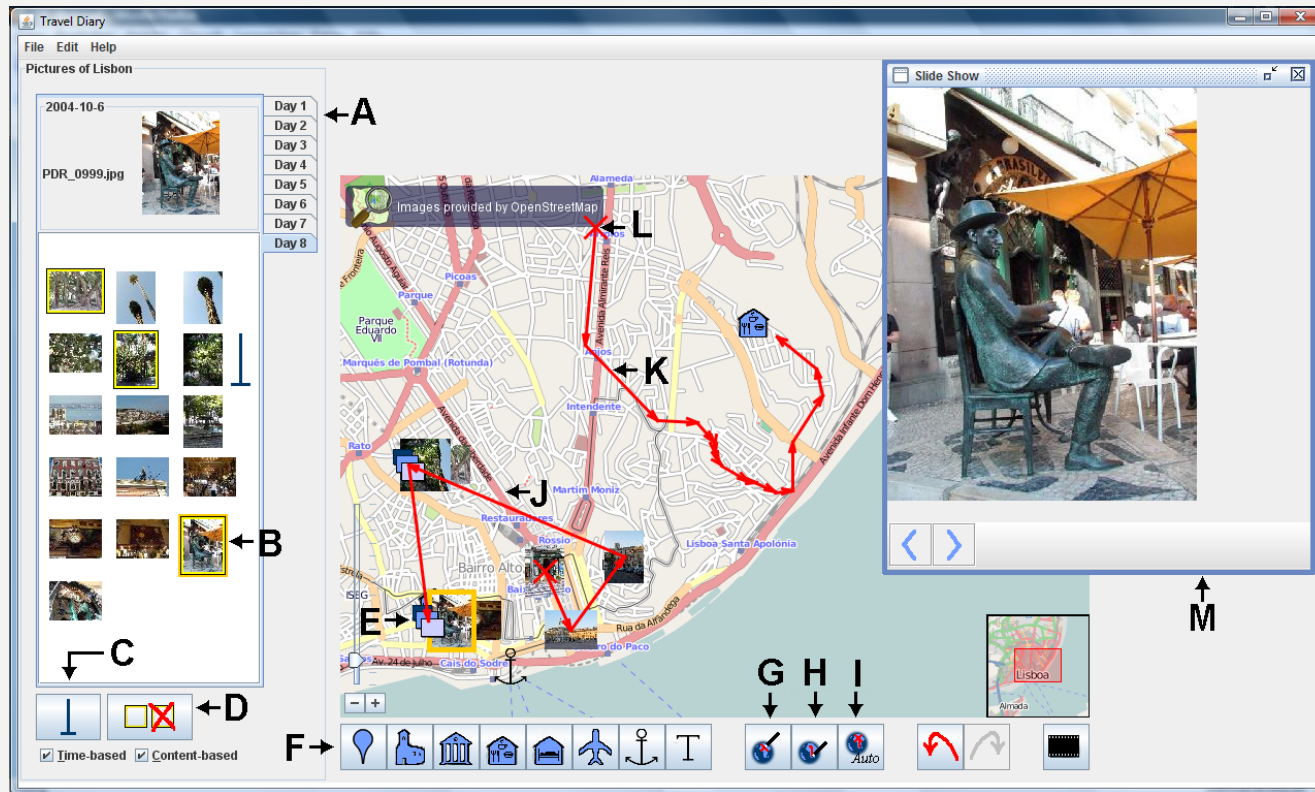
Microsoft NetMeeting



Kuchinsky et al.: FotoFile

Frohlich et al.: Requirements for Photoware

# TravelDiary1: Route-based creation of travel stories

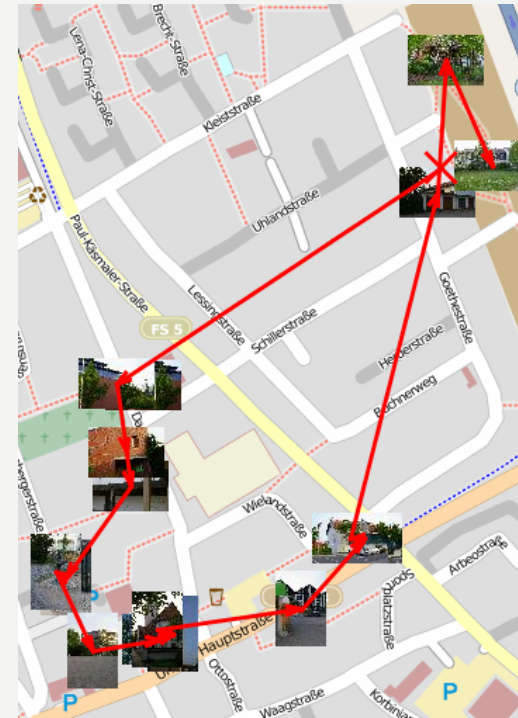


The interface of TravelDiary1

## TravelDiary1: Appealing route concept



Manually created route

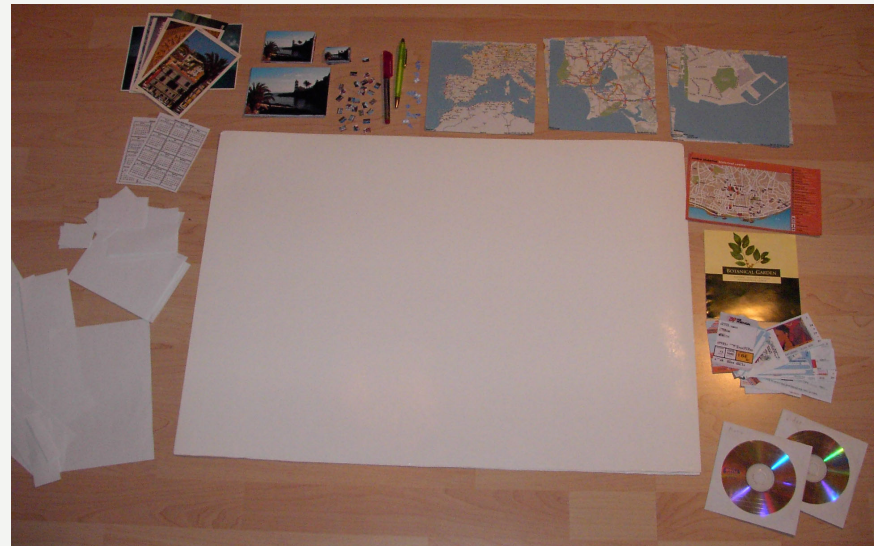


Automatically created route

Missing: Sharing and storytelling aspect.

# Concept Development: Interview

- 11 participants
- Methodology: Interview, Paperprototyping
- Main theme: People's documentation behavior surrounding travel materials



Materials for paperprototyping





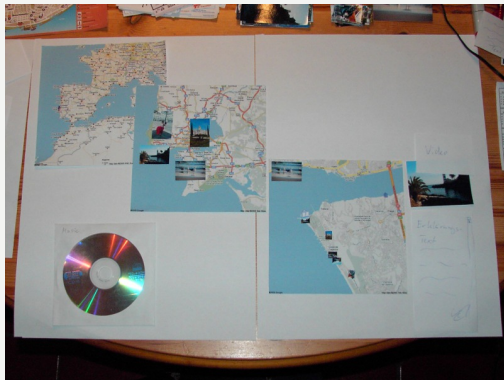
# Concept Development: Interview - Results



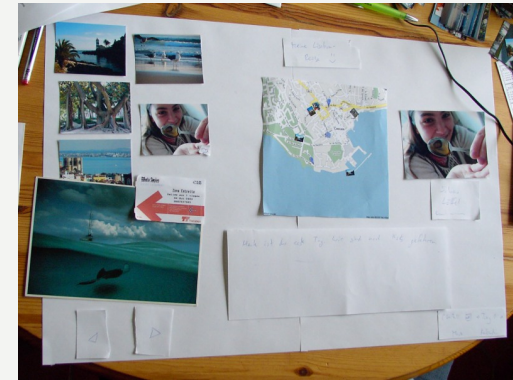
All-in-one



Details-on-Demand

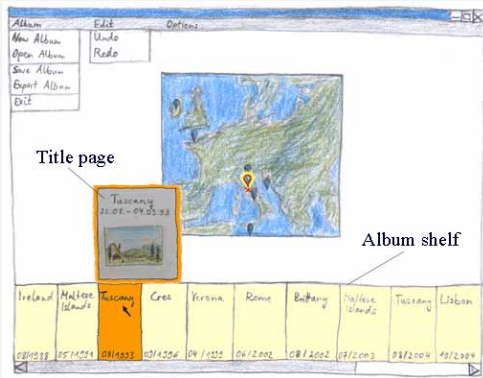


Map-based

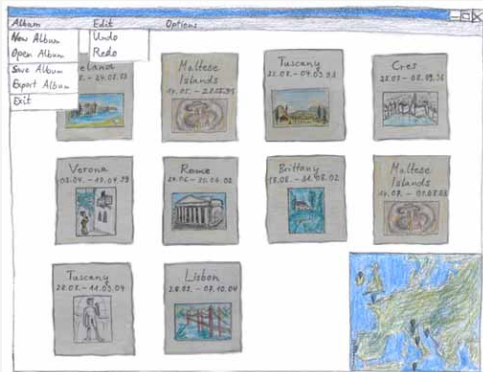


Page-based

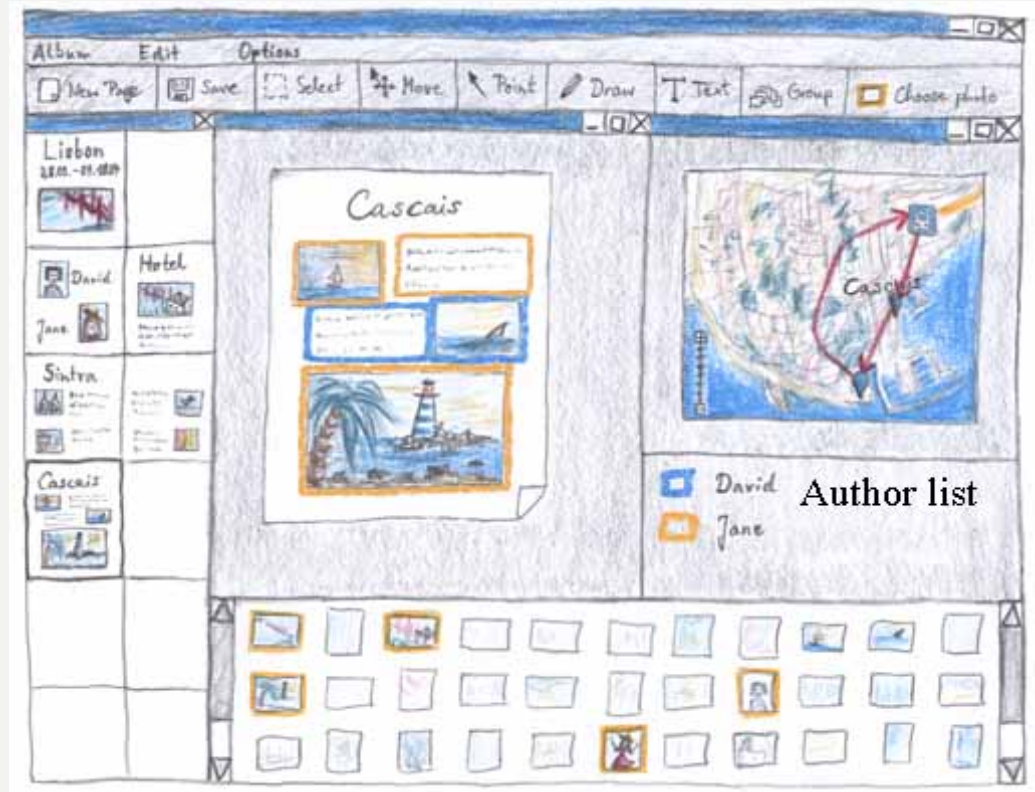
# Concept Development: Initial Concept



Overview album shelf



Overview title pages



Editing an album

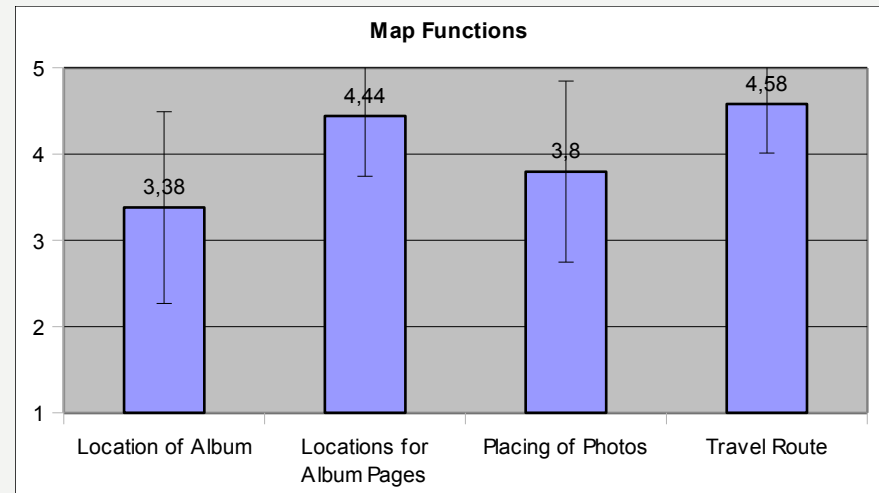
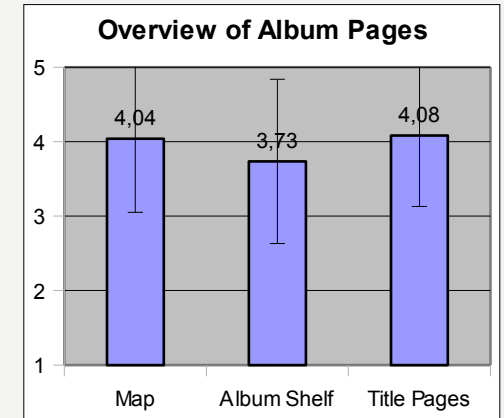
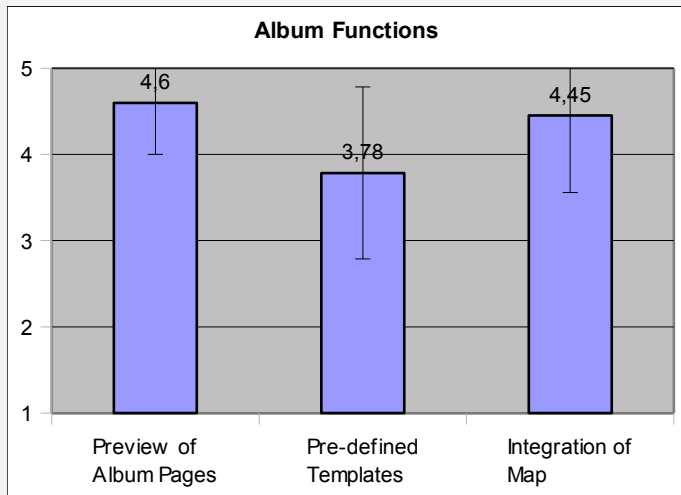


## Concept Development: Online Survey

- 54 participants
- People's documentation behavior surrounding travel materials
- Test of initial concept

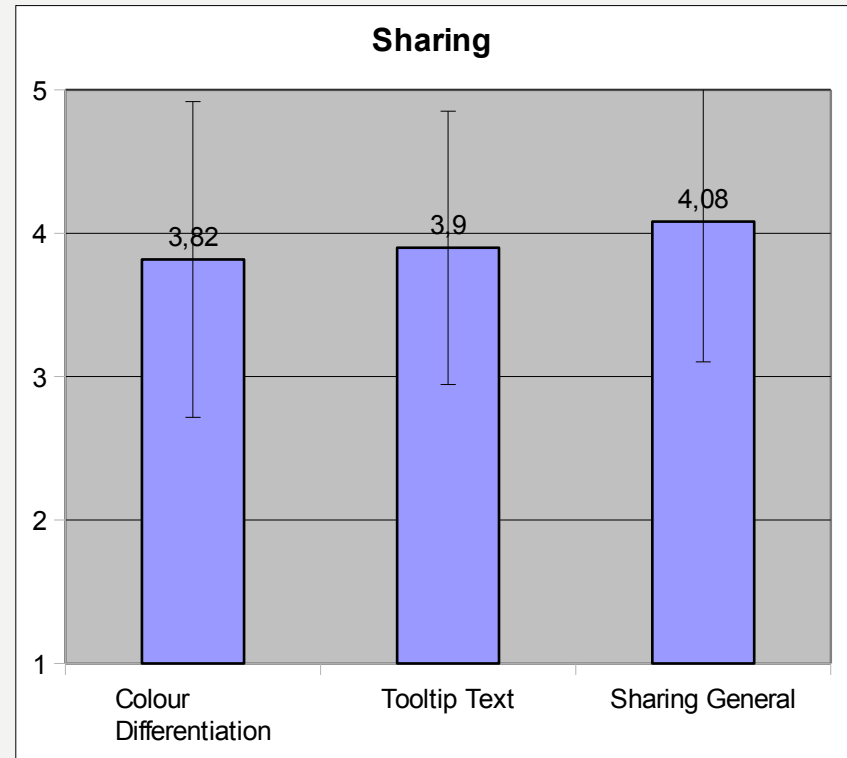
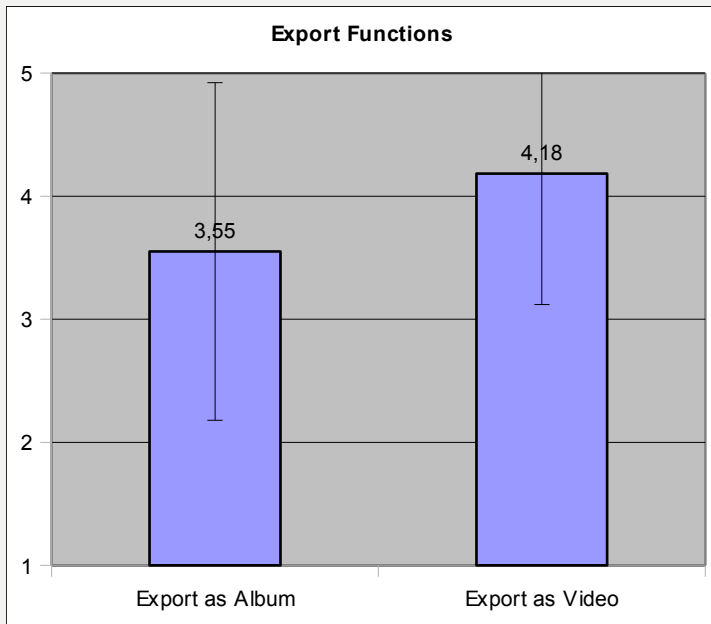


# Concept Development: Online Survey - Results

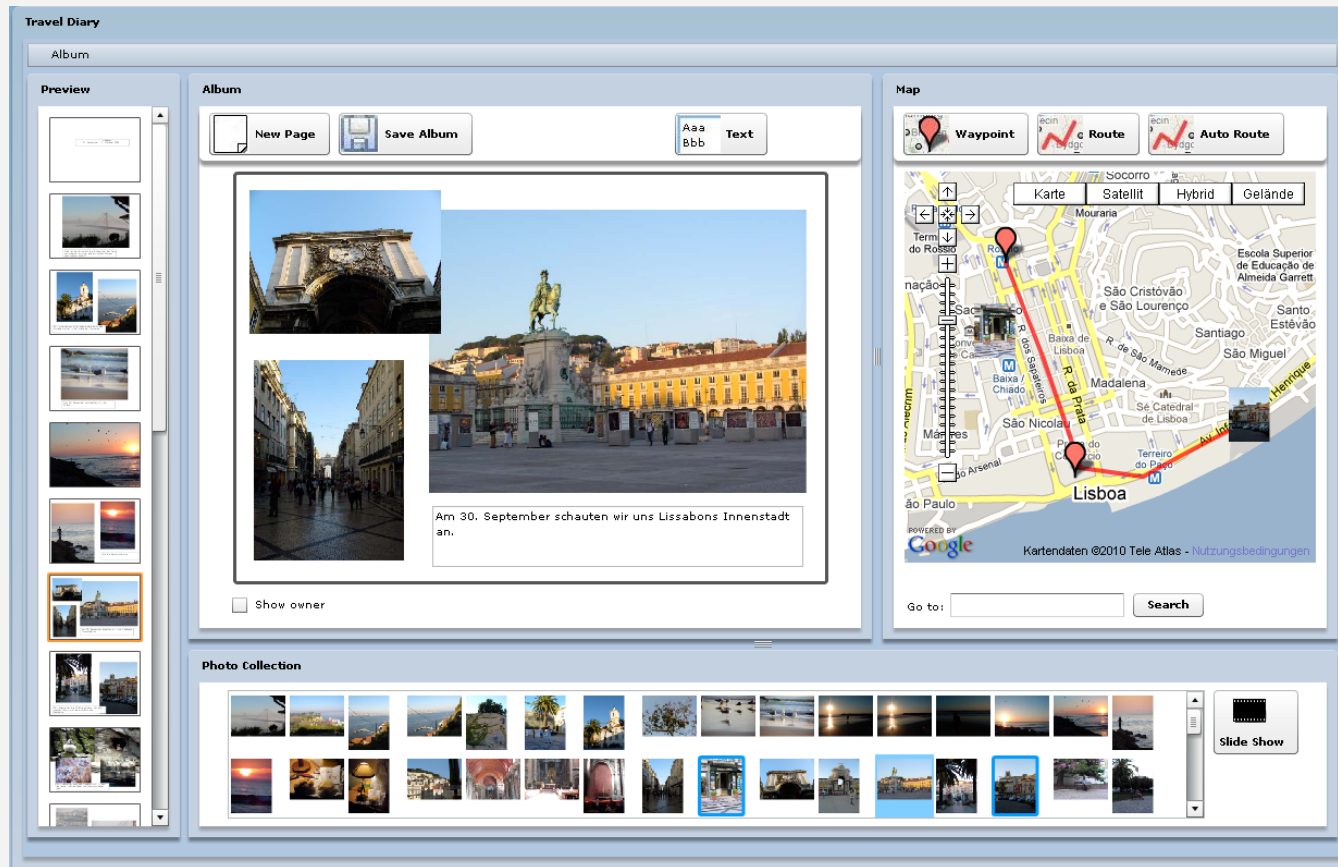




# Concept Development: Online Survey - Results

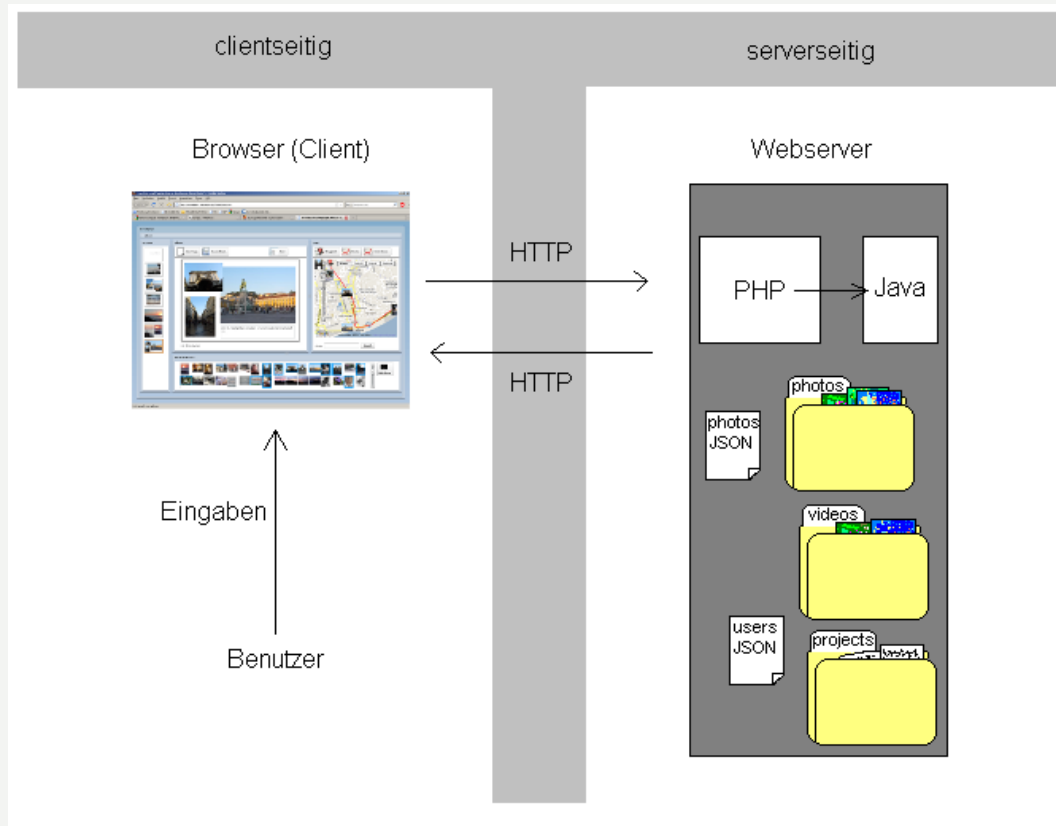


# Interface



Interface of TravelDiary

## Implementation

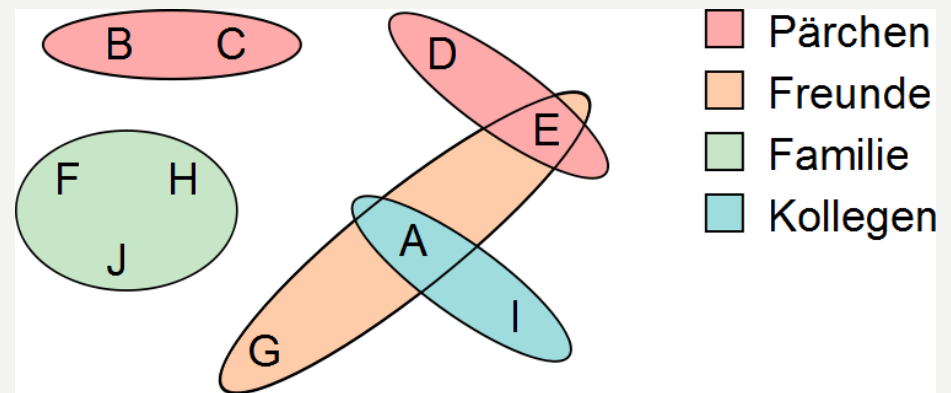


Interface of TravelDiary



# Evaluation

- 10 participants
- 2 main tasks: Creating an album and editing an album of another person (later)
- Rating of the albums after creation/editing

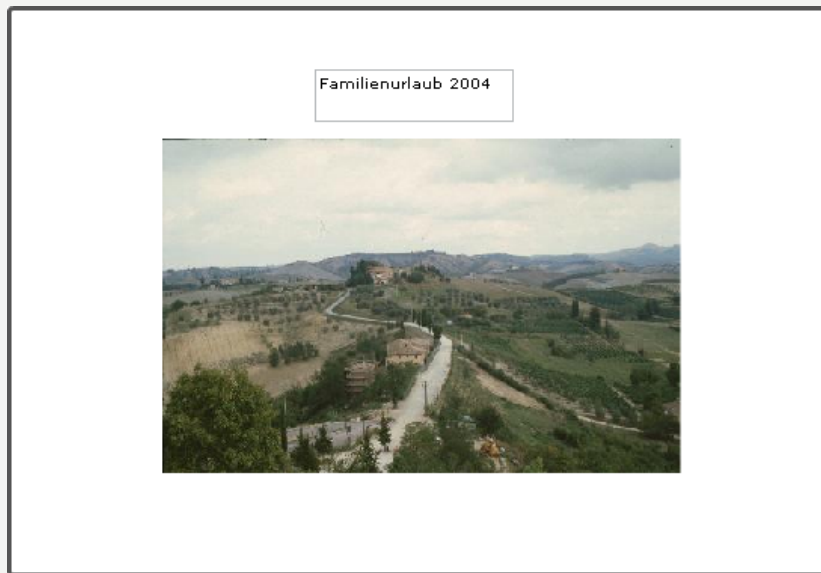


Groups of users



## Evaluation: Creating an album - Pages

- Users created 11 pages on average.
- They followed a rough chronological order.



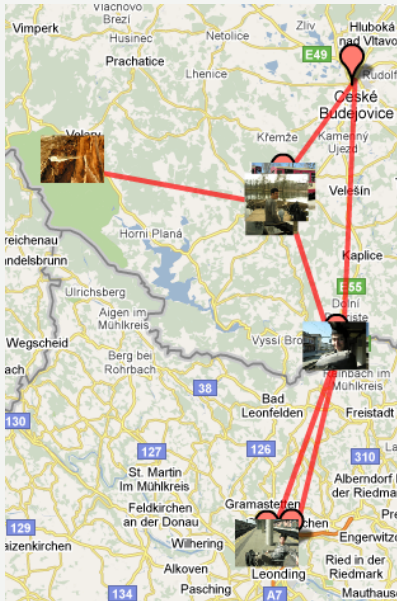
Title page of an album



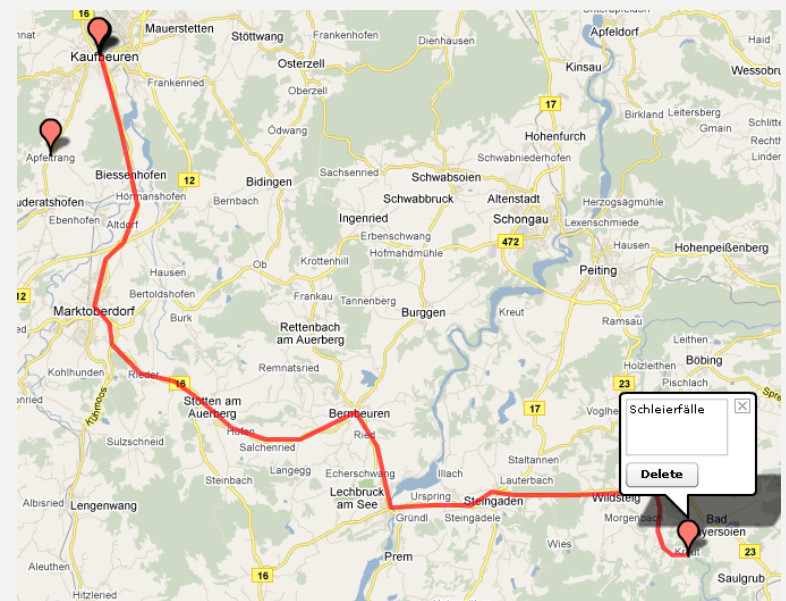
Page with sightseeing event

## Evaluation: Creating an album - Map

- 8 users added location information in the map.
- They used pins (7/10), photos (5/10) and route (5/10).



Automatic route representing a train trip



Manual route

## Evaluation: Editing an album - Pages

- Users made minor changes mainly to enrich the information (through both photos and texts).
- They seldom deleted sth.



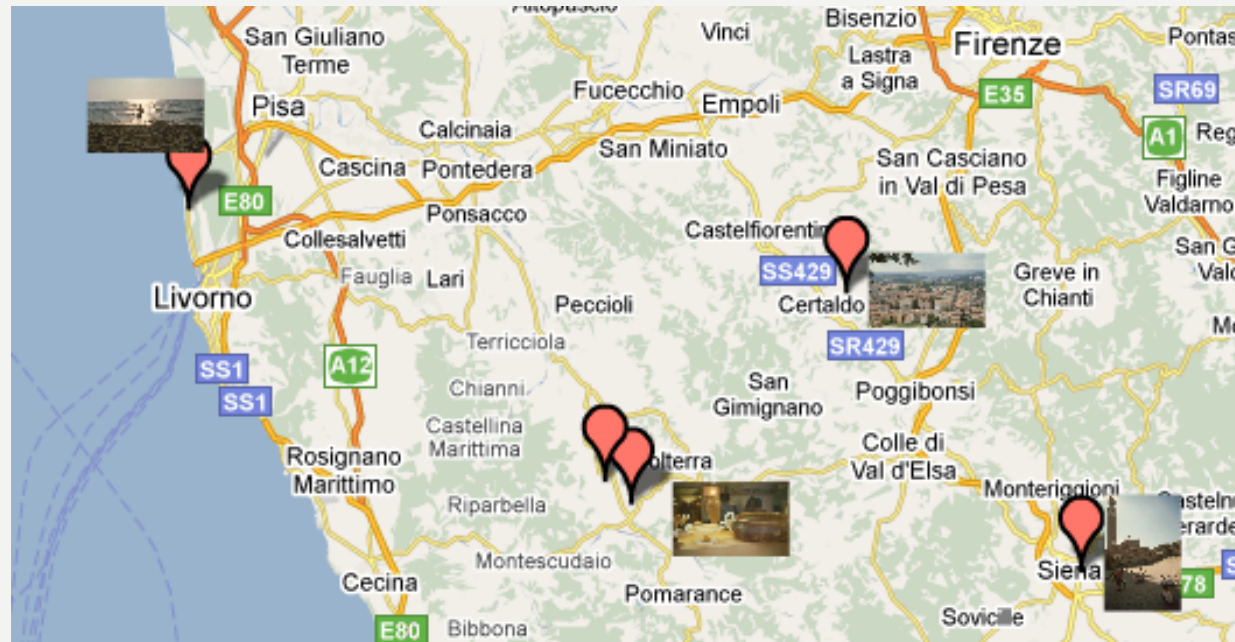
Adding a picture



Adding the names of pictured people

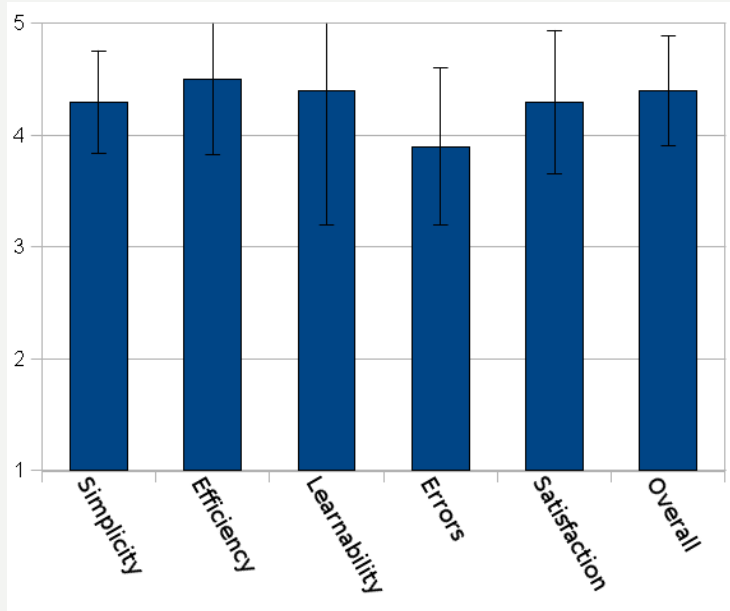
## Evaluation: Editing an album - Map

- 5 users changed map, 2 added all map information.

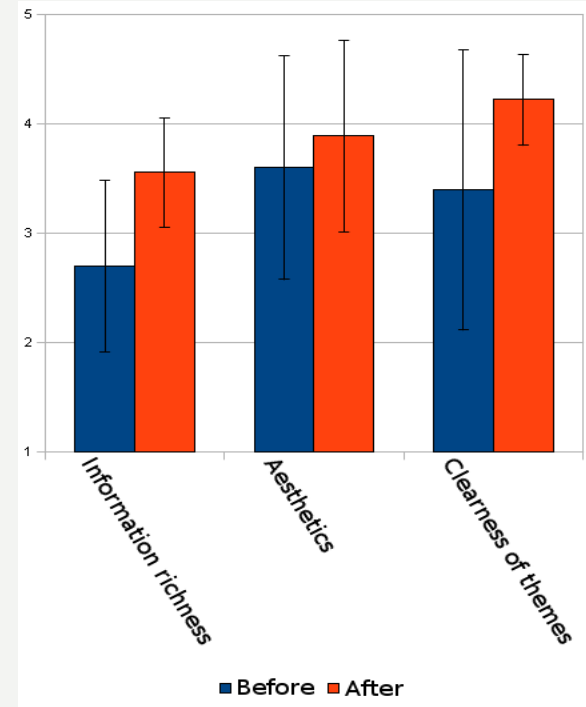


Adding the whole map to an existing album

## Evaluation: Results



- TravelDiary received overall positive feedback.



- Information richness of the album is improved after editing.



# Conclusion and Future Work

- Users were sometimes biased to edit the album of another person.
- Future work could allow the users to work together simultaneously on an album.

	SAME TIME	DIFFERENT TIME
SAME PLACE	Prints Slides & projector <b>CO-PRESENT SHARING</b> <i>Photo viewing software &amp; devices</i>	Shoeboxes Albums & frames <b>ARCHIVING</b> <i>CD-ROM</i> <i>PC filestore</i> <i>Photo website</i>
DIFFERENT PLACE	Telephone <b>REMOTE SHARING</b> <i>Application sharing</i> <i>Instant messaging</i> <i>Video conferencing</i>	Mail <b>SENDING</b> <i>Email attachment or website reference</i> <i>Internet photo frames</i>

Synchronized collaboration



## References

- Balabanovic, M., Chu, L. L., Wolff, G. J. Storytelling with Digital Photographs. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, Ext. Abstracts (The Hague, The Netherlands, April 1-6, 2000). CHI 2000. ACM Press, New York, NY, USA, 2000, 2657-2660.
- Boll, S., Sandhaus, P., Scherp, A., Thieme, S.: Ansichten eines Fotoalbums zu Multimedia Information Retrieval. In: "Datenbank-Spektrum", Vol. 6, No. 18, dpunkt, Germany, 2006. 33-40.
- Crabtree, A., Rodden, T., Mariani, J. Collaborating around Collections: Informing the Continued Development of Photoware. In Proceedings of the 2004 ACM conference on Computer Supported Cooperative Work (Chicago, Illinois, November 6-10, 2004). CSCW 2004. ACM Press, New York, NY, USA, 2004. 396-405.
- Frohlich, D. M., Kuchinsky, A., Pering, C., Don, A., Ariss, S. Requirement for Photoware. In proceedings of ACM Conference on Computer Supported Cooperative Work (New Orleans, Louisiana, USA, November 16-20, 2002). CSCW 2002. ACM Press, New York, NY, 2002. 166-175.



## References

- Kirk, D., Sellen, A., Rother, C., Wood K. Understanding Photowork. In Proceedings of the SIGCHI conference on Human factors in computing systems (Montréal, Québec, Canada, April 22-27, 2006). CHI '06. ACM Press, New York, NY, USA, 2006. 761-770.
- Kuchinsky, A., Pering, C., Creech, M. L., Freeze, D., Serra, B., Gwizdka, J. FotoFile: A Consumer Multimedia Organization and Retrieval System. In Proceedings of the SIGCHI conference on Human factors in computing systems (Pittsburgh, PA, USA, April 15-20, 1999). CHI 1999. ACM Press, New York, NY, USA, 1999. 496-503.
- Miller, A. D. and Edwards, W. K.. Give and Take: A Study of Consumer Photo-Sharing Culture and Practice. In proceedings of the SIGCHI conference on Human factors in computing systems (San Jose, California, USA, April 28-May 3, 2007), CHI 2007. ACM Press, New York, NY, USA, 2007. 347-356.





## References

- Rodden, K. and Wood, K. How Do People Manage Their Digital Photographs. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (Fort Lauderdale, USA, April 5-10, 2003). CHI 2003. ACM Press, New York, NY, USA, 2003. 409-416.
- Shen, C., Lesh, N. B., Moghaddam, B., Beardsley, B., Bardsley, P., Bardsley, R. S.. Personal Digital Historian: User Interface Design. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems, Ext. Abstracts (Seattle, Washington, USA, March 31-April 5, 2001). CHI 2001. ACM Press, New York, NY, USA, 2001. 29-30.
- Van House, N., Davis, M., Takhteyev, Y., Good, N., Wilhelm, A., Finn, M. From What to Why: Social Use of Personal Photos. In Proceedings of the 2004 ACM conference on Computer Supported Cooperative Work, Ext. Abstracts (Chicago, Illinois, November 6-10, 2004). CSCW 2004. ACM Press, New York, NY, USA. 2004.
- <http://technet.microsoft.com/en-us/library/dd361923.aspx>



**Thank you for your attention!  
Any questions?**