

Department of Computer Science Institute for System Architecture, Chair for Computer Networks

Application Development for Mobile and Ubiquitous Computing

Task 1 – Adaptive Image Viewer Second Presentation

GroupNo. 1 Team: Robert Lübke, Daniel Esser



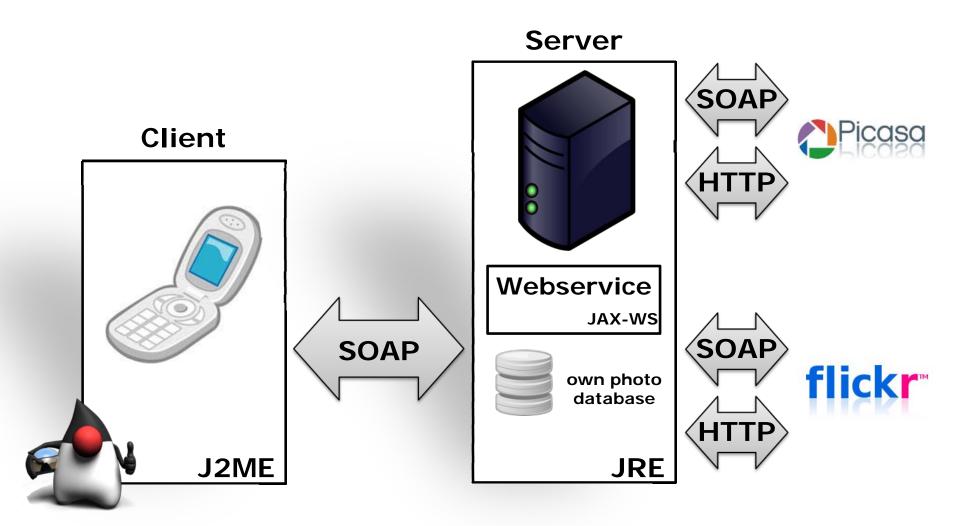
- Task 1 Adaptive Image Viewer for J2ME (Java 2 Micro Edition)
- Functions
 - Usage of photo sharing websites Picasa and Flickr
 - o Community search
 - o Viewing photos, comments and additional information





- Usage of a self-developed photo database
 - o Search function
 - o Viewing and editing additional information
- Define grade of adaption
 - o Picture size according to display size and users demand







- Client
 - J2ME (Java Platform 2, Micro Edition)
- Server
 - JDK 6 (Java Development Kit 6)
 - JAX-WS (Java API for XML Web Services; included in JDK 6)
 - JRE (Java Runtime Environment)
- Connection
 - Client Server \rightarrow SOAP
 - Server Picasa → SOAP
 - Server Flickr → SOAP





Status quo (I)

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Status quo (II)

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- Identification of display parameters (width, height)
- Rescaling images according to display parameters and users demand
- Traffic reduction as a consequence of implemented cache
- Heterogeneity of software
 - Useable on every mobile phone with J2ME
- Usability
 - Optimized content for available display
 - Easy interaction due to well-arranged forms













Date	Task	
~ 30.10.2009	End of literature research	
~ 06.11.2009	Implementing the Web Service without application logic	
~ 16.12.2009	Completion of first prototype	
18.12.2009	Second presentation	
~ 22.01.2010	 Completion of final version Finalize integration of Flickr Possibility to view more than 10 pictures in the result list Own database for pictures Adjustable settings via option-menu Tackle open challenges 	
~ 28.01.2010	Test and correcting failures	
29.01.2010	Final presentation	
05.02.2010	Submission of final results	