

# Application Development for Mobile and Ubiquitous Computing

## Task 1 – Adaptive Image Viewer Second Presentation

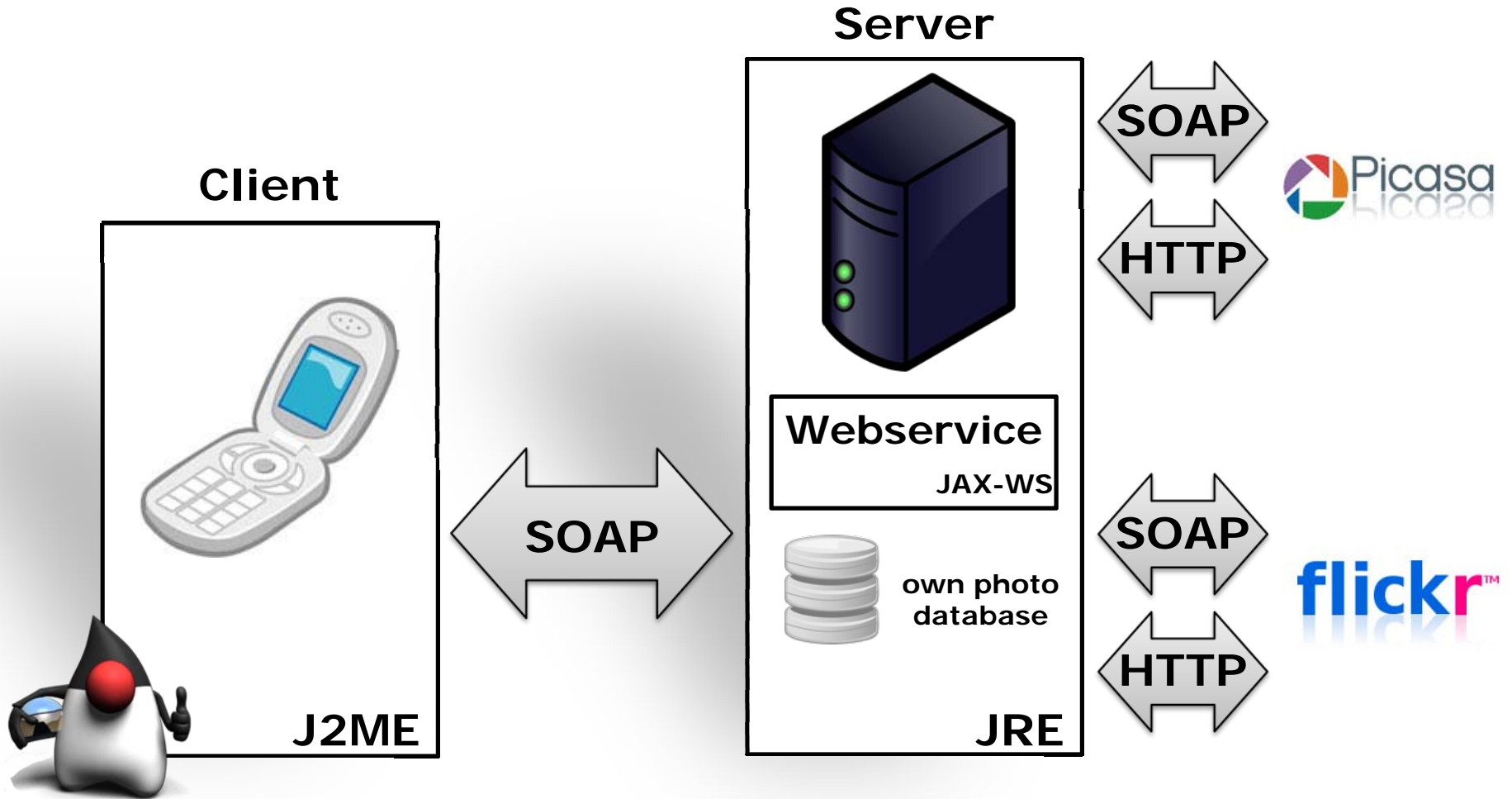
GroupNo. 1

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
    - Community search
    - Viewing photos, comments and additional information



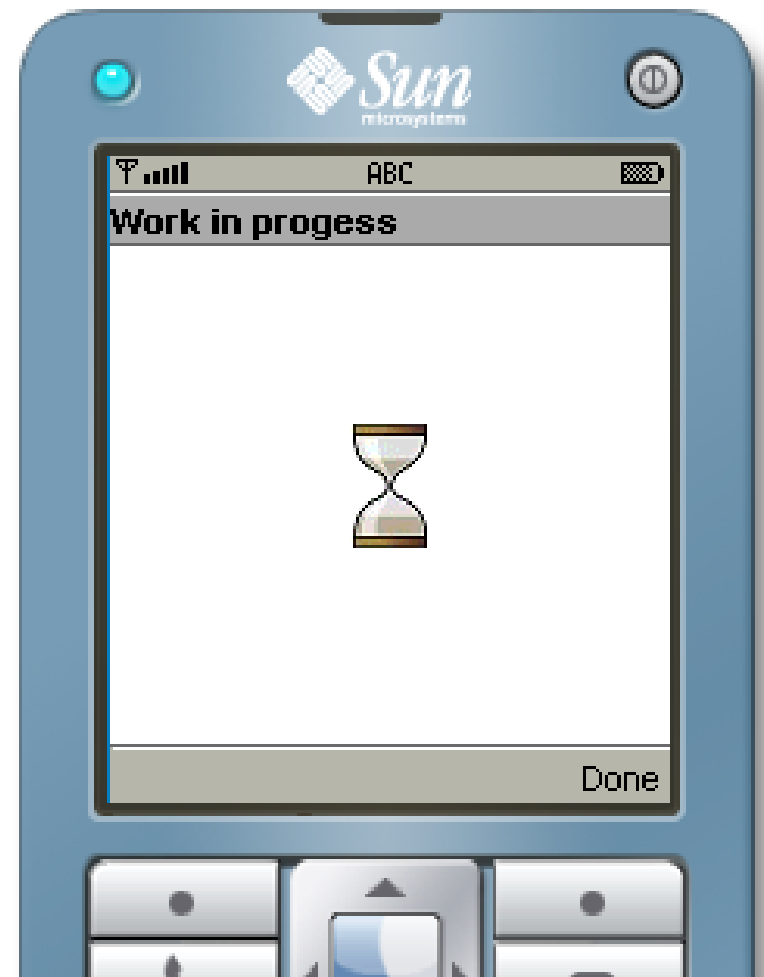
- Usage of a self-developed photo database
  - Search function
  - Viewing and editing additional information
- Define grade of adaption
  - Picture size according to display size and users demand







- 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 → SOAP
  - Server – Picasa → SOAP
  - Server – Flickr → SOAP









- Restricted mobile devices capabilities
  - 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
<b>18.12.2009</b>	<b>Second presentation</b>
~ 22.01.2010	Completion of final version <ul style="list-style-type: none"> <li>• Finalize integration of Flickr</li> <li>• Possibility to view more than 10 pictures in the result list</li> <li>• Own database for pictures</li> <li>• Adjustable settings via option-menu</li> <li>• Tackle open challenges</li> </ul>
~ 28.01.2010	Test and correcting failures
<b>29.01.2010</b>	<b>Final presentation</b>
<b>05.02.2010</b>	<b>Submission of final results</b>

