

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

Application Development for Mobile and Ubiquitous Computing

Seminar Task

Second Presentation

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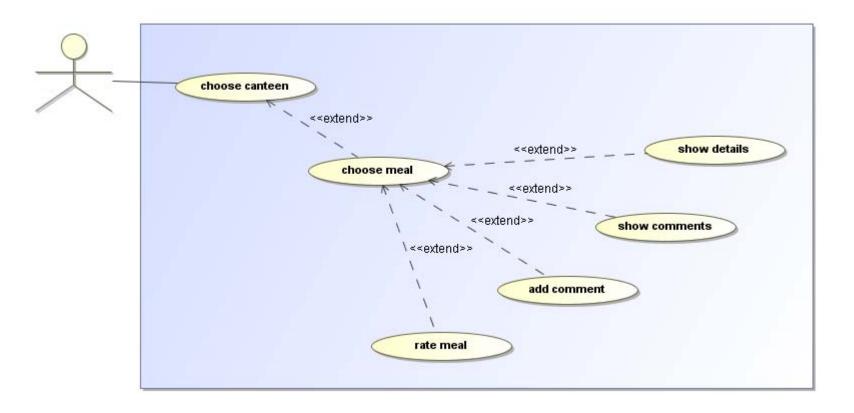


- Introduction / Application Scenario
- Use Case Diagram
- Mockups
- Technologies
- Challenges
- Work Plan



- target group:
 - students thinking about having lunch at the refectory
 - research assistants using the refectory of our university
- questions:
 - Where should I go to have lunch?
 - Which meals should I avoid? Which ones are recommendable?
 - Whats about the price?
- our solution:
 - mobile application providing information about the meals at the refectories including ratings







Mockups



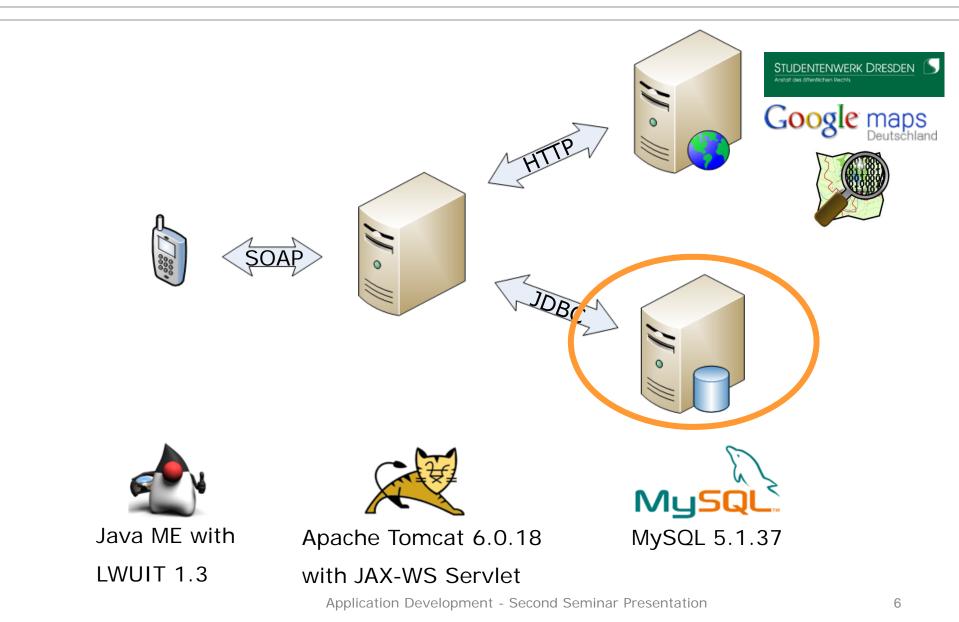




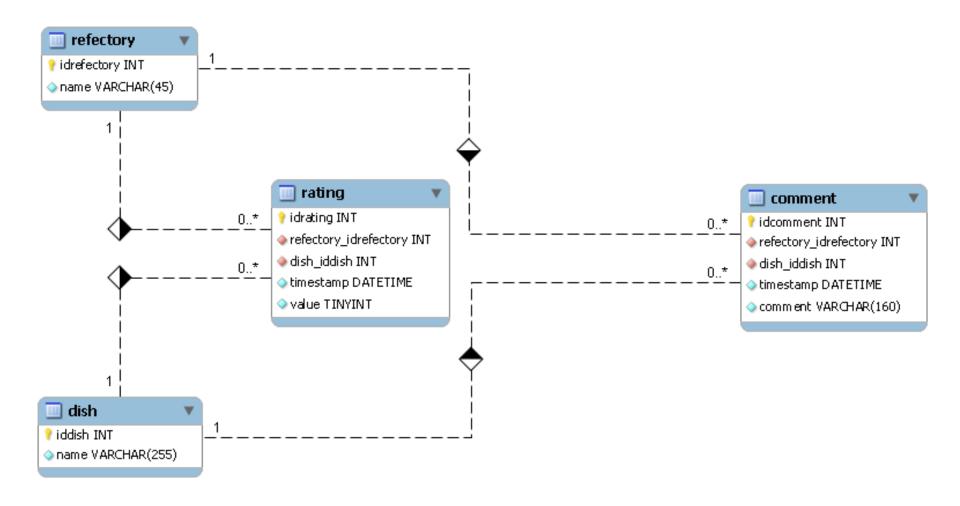
Application Development - Second Seminar Presentation



Technologies

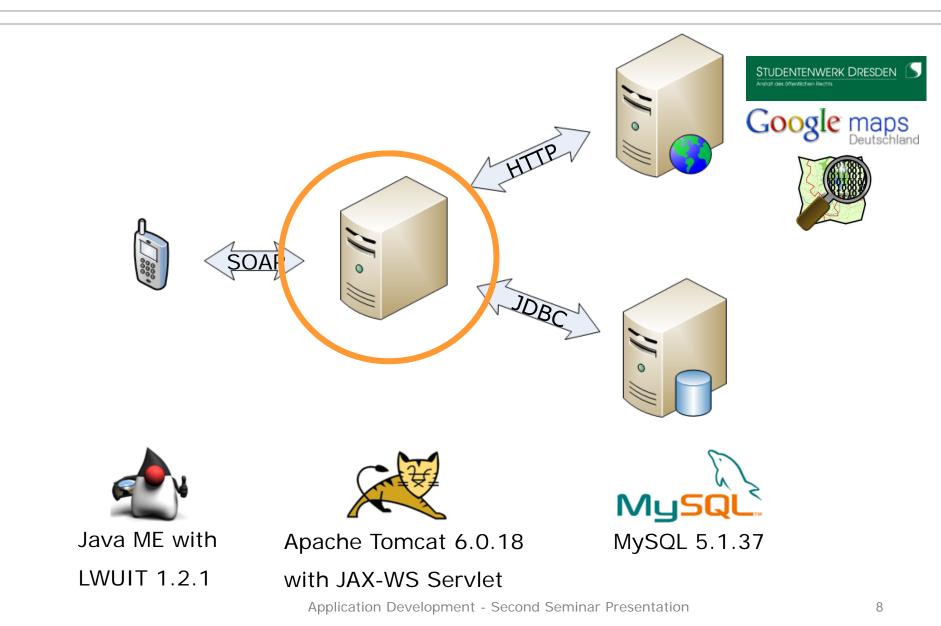






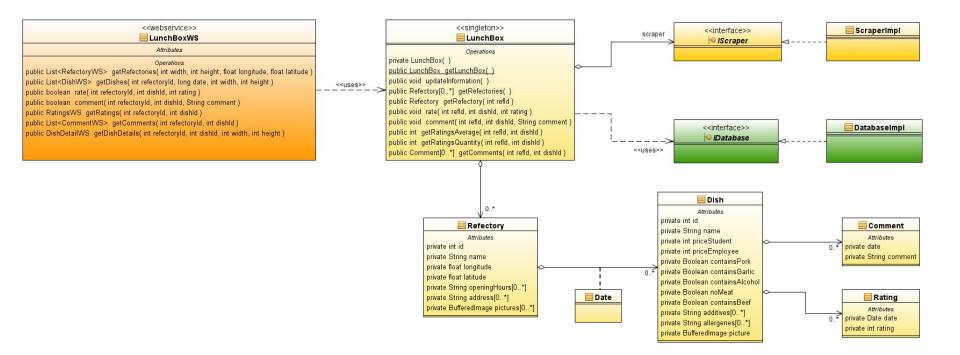


Technologies



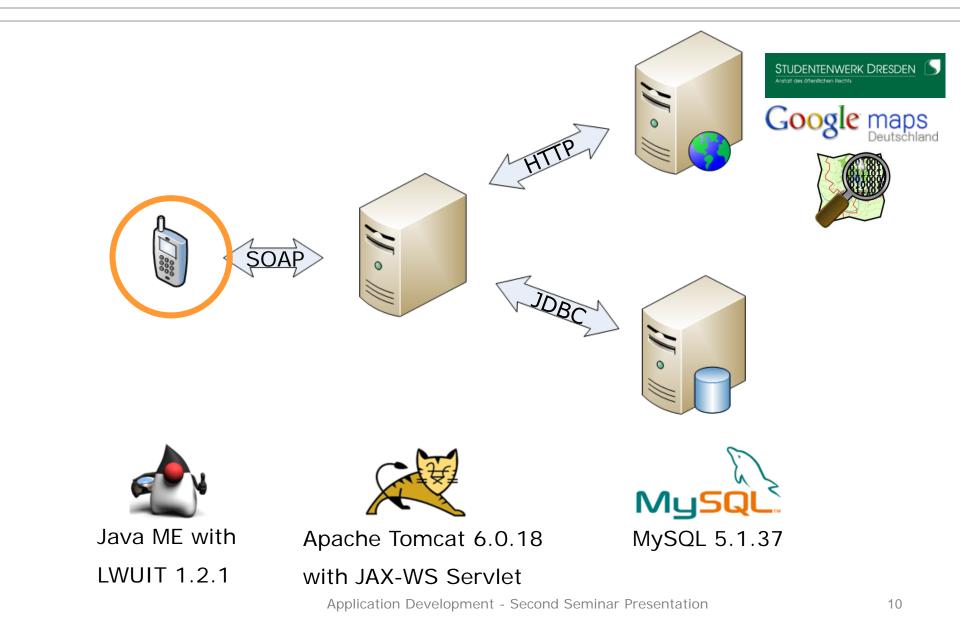


Server Architecture





Technologies









data scraping

- "Studentenwerk" doesn't provide any API
- → solved by means of Cobra Java HTML Parser and HtmlCleaner

usability and customer satisfaction

clear structured user interface e.g. filter for vegetarians
→ use of LWUIT

restricted device capabilites

- adaptation of images to the screen size (resolution)
- → adaptation by means of functions provided by the JAVA API at the server



heterogeneity

usability at any devices supporting MIDP 2.0 and CLDC 1.1
→ no tests on different devices done yet

context awareness

- using location based information for calculating the distance to different refectories
- → distance calculation to the different refectories at the server by means of google maps API and YOURS



October 20	09	November 2009				Decembe	December 2009					January 2010			
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First P	resentation ┥	•						1							
Scraping	& Database			[10/30/09 - 11/2	0/09]									
GL	JI-Prototype				10/30/09 - 11/2	0/09]									
			Webserv	vice Interface			[11/20/09 - 12/4	/09]							
_		Int	egrate Service D	ata & Theme	_		[11/20/09 - 12/4	/09]							
_				Save Rating	s & Comments o	n Serverside			[12/4/09 - 12/1	8/09]					
_					Refinement & Rev	vision of GUI			[12/4/09 - 12/1	8/09]					
_					First	Device Test			[12/4/09 - 12/1	8/09]					
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_						R	lefinement & Code	Correction	-				[12/18/09 - 1/	15/10]	
_						Lo	Locating & Distance Calculation					[12/18/09 - 1/15/10]			
System, Device & Usability Testing										[12/18/09 - 1/15/10]					
							Doc	umentation						[12/18/09 - 1/2	22/10]
													Final	Presentation 🖌	



Thank you for your attention!