



APPLICATION DEVELOPMENT FOR MOBILE AND UBIQUITOUS COMPUTING

First Presentation

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Dresden, 29.10.2010

Content

1. Scenario
2. Technologies
3. Architecture
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5. Next Steps

Scenario

You would like to:

Scenario

You would like to:

- have some drinks after work ?

Scenario

You would like to:

- have some drinks after work ?
- meet your friends ?

Scenario

You would like to:

- have some drinks after work ?
- meet your friends ?
- spend as less money as possible ?

Scenario

Solution?

Scenario

Solution?

Happy Hour Time!





But Where?

But Where?









But Where?



But Where?



B	
<p>.Barcelona Weiße Gasse 6 01067 Dresden</p>	<p>Kategorie: Bar, Restaurant Happy Hour: Mo - So: 17:00 - 19:00 Uhr</p> <p>Details</p>
 <p>Busmann's ★★★★ (1 Bewertung) Kleine Brüdergasse 5 01067 Dresden</p>	<p>Kategorie: Bar, Café, Restaurant, Deutsch, International Happy Hour: Mo - So: 17:00 - 19:00 Uhr</p> <p>Details</p>
K	
 <p>Karl May Bar (ehem. Classic American Bar) ★★★★ (29 Bewertungen) Taschanberg 3 01067 Dresden</p>	<p>Kategorie: Bar, Hotelbar, Lounge Happy Hour: Mo - So: 18:00 - 20:00 Uhr</p> <p>Details</p>
N	
 <p>New California ★★★★ (1 Bewertung) Wallglasschen 4 01097 Dresden</p>	<p>Kategorie: Bar, Restaurant Happy Hour: Mo - So: 18:00 - 20:00 Uhr</p> <p>Details</p>
S	
 <p>SKY - Cafe, Bar & Restaurant ★★★★ (16 Bewertungen) Werner Platz 10 01106 Dresden</p>	<p>Kategorie: Bar, Lounge, Café, Restaurant Happy Hour: Mo: 17:00 - 19:00 und 23:00 - 01:00 Uhr Di - So: 17:00 - 19:00 Uhr</p> <p>Details</p>

MockUp & Use Cases

MockUp & Use Cases



created with Balsamiq Mockups - www.balsamiq.com

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Application Development for MUC

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MockUp & Use Cases



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Find Happyhour Locations

Check In

See Friends at Locations

Add Friends

Delete Friends

Chatting

Define Search Radius

created with Balsamiq Mockups - www.balsamiq.com



Technologies



Technologies

Client:

- Platform:
Android + Google Maps
- MXA for Communication



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Server:

- Platform: Java 6
- Openfire Server
- Smack
Library for Communication



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Android + Google Maps
- MXA for Communication

Server:

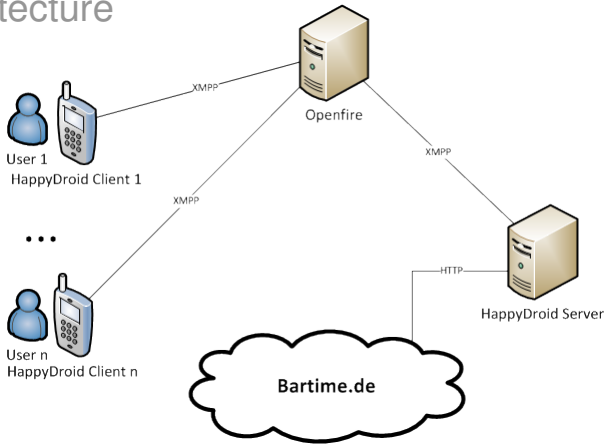
- Platform: Java 6
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Communication:

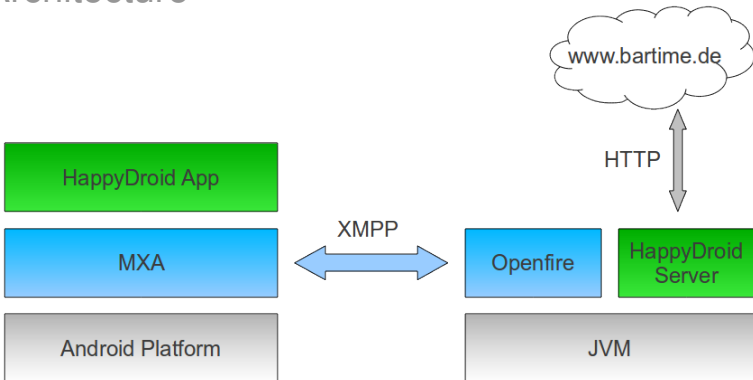
- XMPP-based



Architecture



Architecture



Challenges

Challenges



Connectivity:

- Caching locations and friends
- Handle connection failures (e.g. in buildings)

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Usability:

- Provide a simple UI
- Supporting as much as possible of Android phones and platforms

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Connectivity:

- Caching locations and friends
- Handle connection failures (e.g. in buildings)

Usability:

- Provide a simple UI
- Supporting as much as possible of Android phones and platforms

Other:

- scraping data from bartime.de (no API)

Next Steps

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Client:

- Connect HappyDroid to MXA
- Design client views

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- Test server while using dummy-data

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- Test server while using dummy-data

Other:

- Define IQs for communication
- Test to send and receive IQs

Thank you for your attention!