



Application Development for Mobile and Ubiquitous Computing

Seminar Task - MobileEatFind

Second Presentation

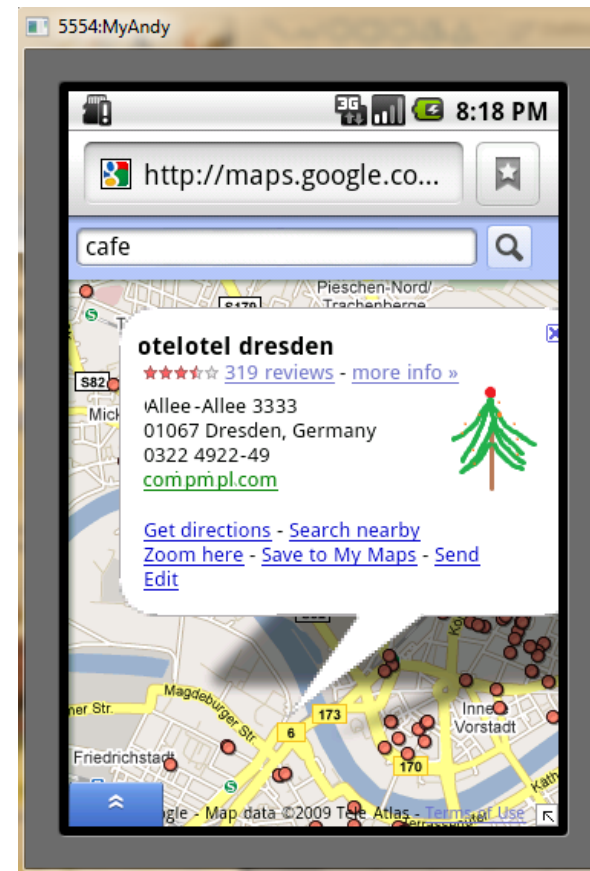
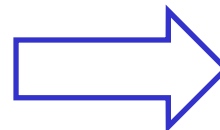
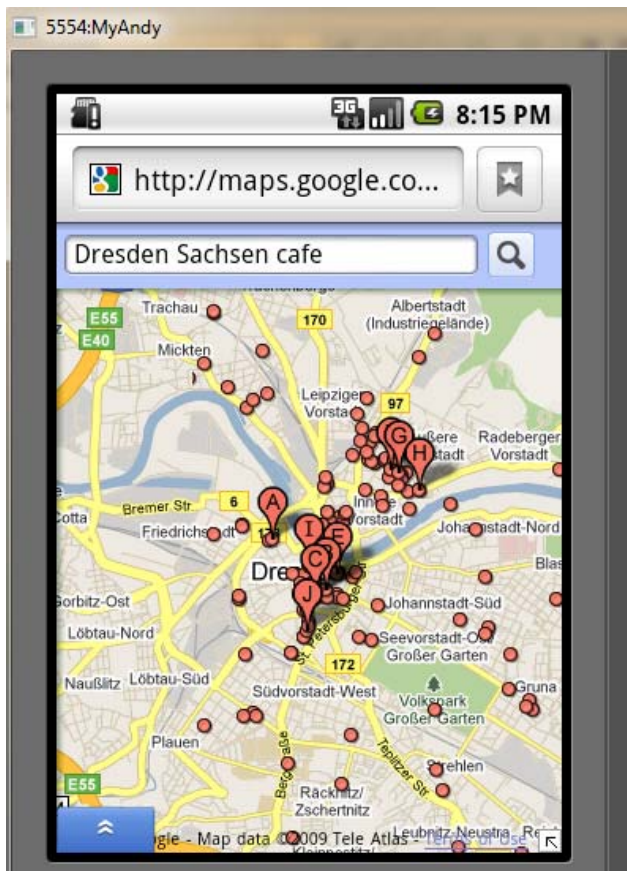
GroupNo. 10

Team:

Dang Khoa Tran, Denis Naletov


- Historical city center with lots of cafes, restaurants, bars...
- Customer is thirsty/hungry/tired/lazy and has no wish to enter any queues or check menus and prices „on-foot“
- Instead he has a mobile device with application capable to find all nearby locations on Google Maps,...
- ... check menus, check free tables amount
- And possibly show way to place

- Someone can say – “But we have Google!”



- What Google has:
 - Google Maps
 - Any business can be registered -> found
 - Customer reviews (try to read all though)
 - Link to business web site
- What is still missing -> couldn't be checked:
 - Prices
 - Required product availability
 - Free places amount



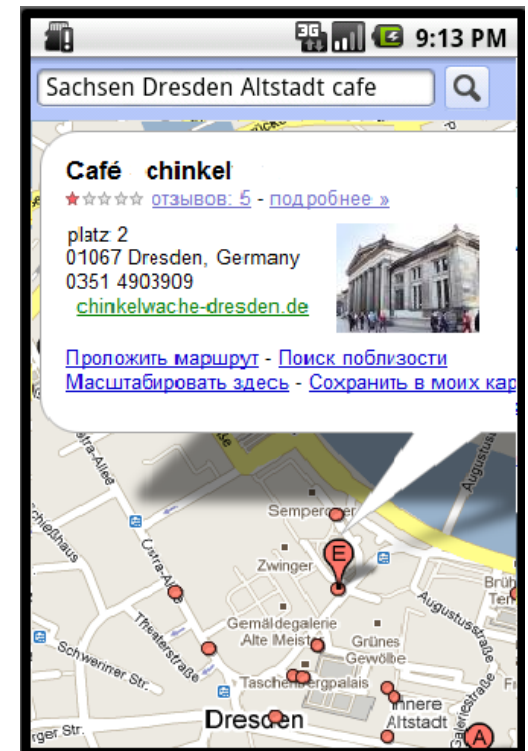
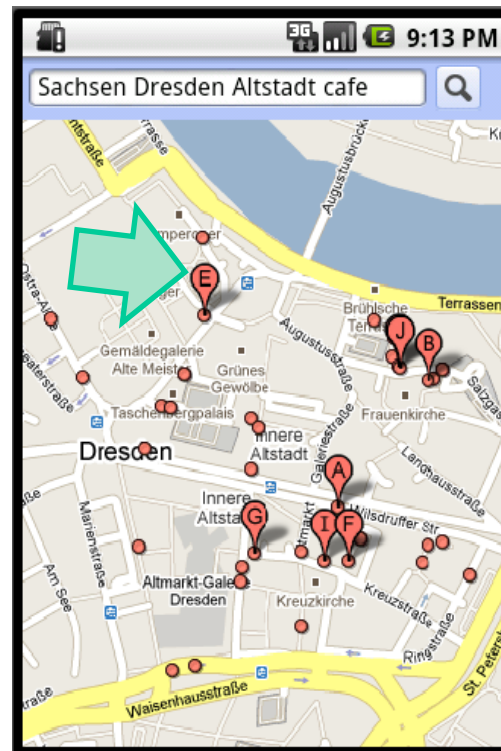
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EatFind

Hello, a hungry one!
Lets find(, separated):

Price from (EUR):

to:



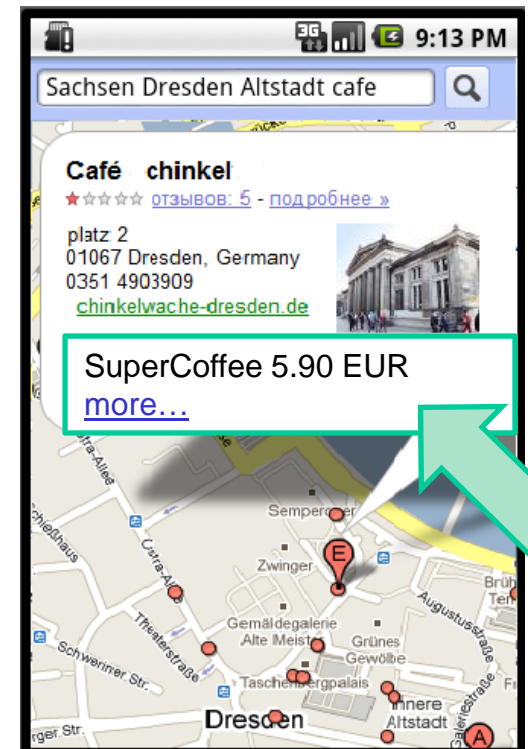
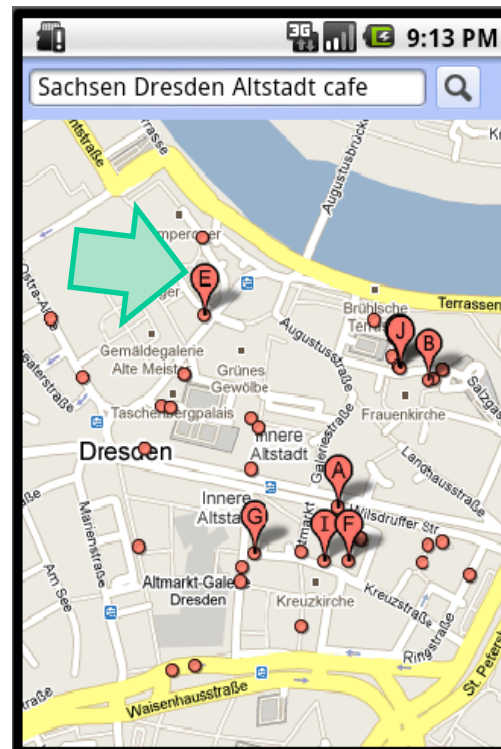


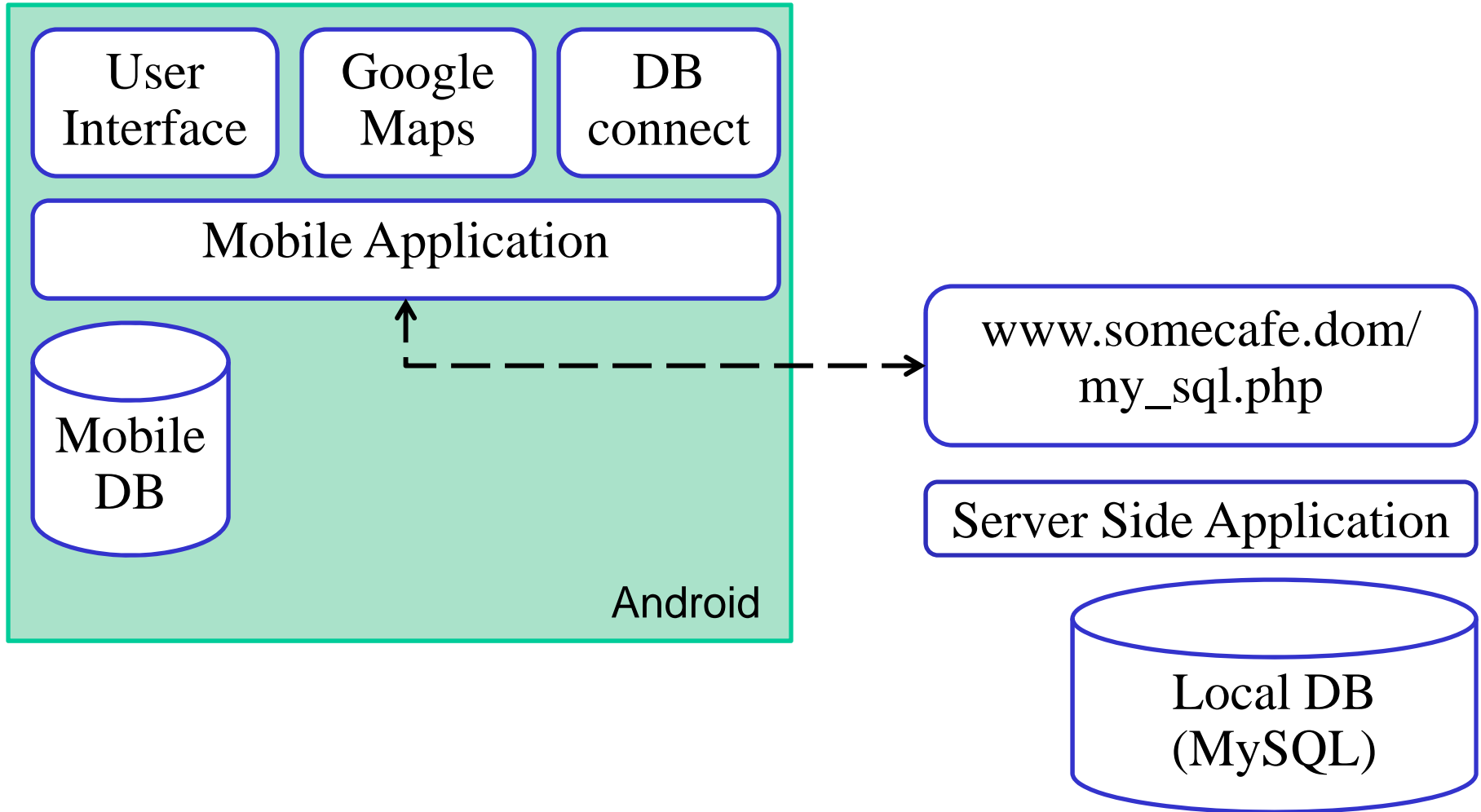
EatFind 8:59 PM

Hello, a hungry one!
Lets find(, separated):

Price from (EUR):

to:





1. User specifies item and prices "from-to"



Search

2. User clicks on "Search"



3. Maps are opened

Location querying is used
Dresden is by default (for test reasons)
Prices are stored locally

```
geo:latitude,longitude
geo:latitude,longitude?z=zoom
geo:0,0?q=my+street+address
geo:0,0?q=business+near+city
```

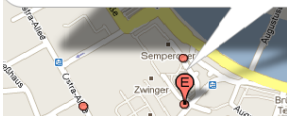


4. User chooses some pinpoint

```
public int price_from = 5;
public int price_to = 20;
```



Coffee 1.90 EUR



5. Pop-up with response appears

```
... String item_specified = "coffee";
String baseURL =
http://coolcafe.com/mysql.php
String query = baseURL +
"?DB_column"+item_specified; ...
```

```
<?php
$con =
mysql_connect
(HOST NAME,
USER NAME,
PASSWORD);
... ?>
```



4.1 Server of Local

- Has mysql.php
- Has MySQL DB

- Android Platform
 - A mobile OS running on Linux kernel
 - We are using version 1.6
- Google Maps API
- MySQL database (server side)
 - Open source database software
- PHP-aware web server

- Correct query construction
 - Not only „coffee“ could be searched for
- Intergrate result into Pop-ups
 - Or try other ways (e.g. return Items List)
- Way-finder
- Google Maps Querying works, but „currently under development“ (i.e. not fully supported)



- Further development of Android application
 - Query construction
 - Maps
- Web application (db_connect.php)
- Server side MySQL Database
 - Ready, but needs improvement
- Testing
- Final presentation on 29.01.2010

