Application Development for Mobile and Ubiquitous Computing

Seminar Task First Presentation

Group №: 20

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Why mobile advertising application?

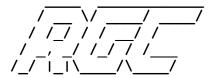
- In Germany people are generous
 - they give lots of good things 'zu verschenken'
 - usually just thowing them to the street container
- Because to post or get an offer you would usually need:
 - computer for web brosing
 - phone to call owner
 - maybe camera to take photos
- However, you can do it all-at-once with our mobile app:
 - no more need to search
 - inbox based on feeds
 - search terms, location-based search
 - mail, browsing, maps and calls all in one place

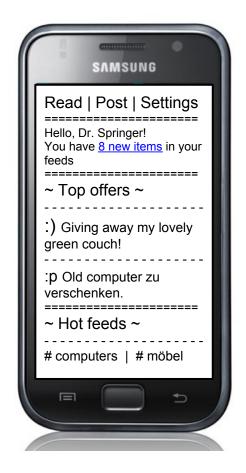
Application Scenario

- user can cpecify searh terms for products, as well as perform standard search
- based on given search terms user receives offers
- offers arrive in feed-like view
- direct contact with seller
- possibility to filter by location (i.e. in 5 km radius)
- post your own ad
- add a picture to your post from a phone camera

Basic features and interface

- Key features users can read feeds and post new items
- Feeds are groupped into slidable lists of offers
- Everything else is in "settings" tab.
- Mockup inspired by ASCII Art



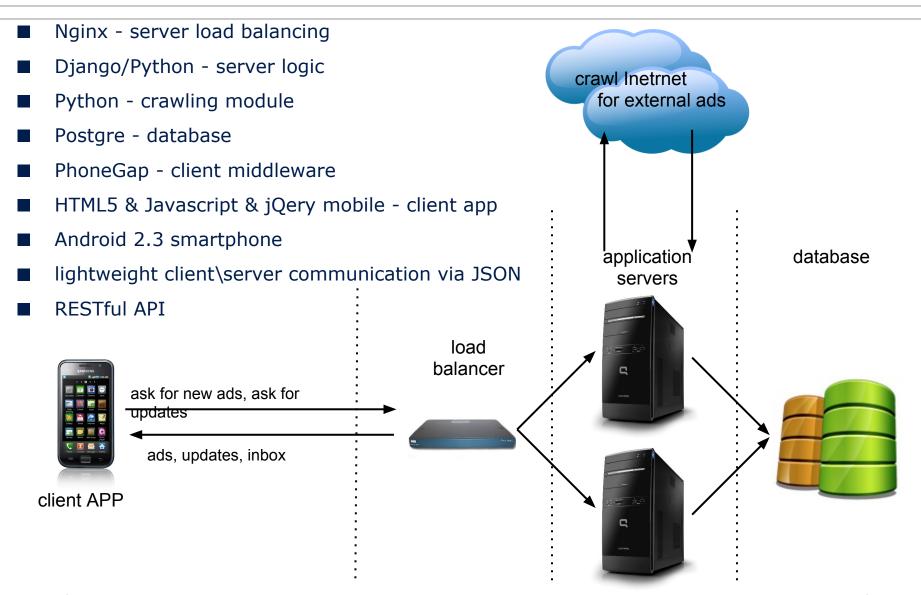


Basic features and interface

- Content is delivered to user (concept of RSS feed), no need to search in different places
- User needs just 1 device to arrange a meeting (search, email, call, lookup the map)
- In case we have enough time, user would also be able to post offers from the single device.
- Multi-platform!



Technologies



Challenges

- Crossplatform mobile application development
- Server load balancing
- Secure data transfer and authentication
- Work under unstable network connection
- Real-time updates
- Suitable for low bandwidth

Work plan

- Conceptional design
 - Define use cases
 - Decide on platforms and tools
 - Freeze feature-list
- Set up backend:
 - DB server
 - Django application server
 - front-end NginX server
- Create an external crawling daemon
 - Constanltly running Python daemon
 - gets new posts from ebay, cybersax etc
 - Pushes results via RESTful API to main server

Work plan

- Write application logic
 - Design models
 - Code controllers
 - Add middleware (e.g. authentication, http sessions)
 - Hook up RESTful API
- Create client application
 - Code controllers
 - Code html views
 - Debug damn Javascript
 - Test the whole thing

Profit

The Most Important Slide

Questions?