

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

Application Development for Mobile and Ubiquitous Computing

Seminar Task Final Presentation

GroupNo. 4

Team: Tomasz Jankowski, Przemyslaw Michalak



- Concept
- Use cases and screen shoots
- Technologies
- Implementation details
- Summary

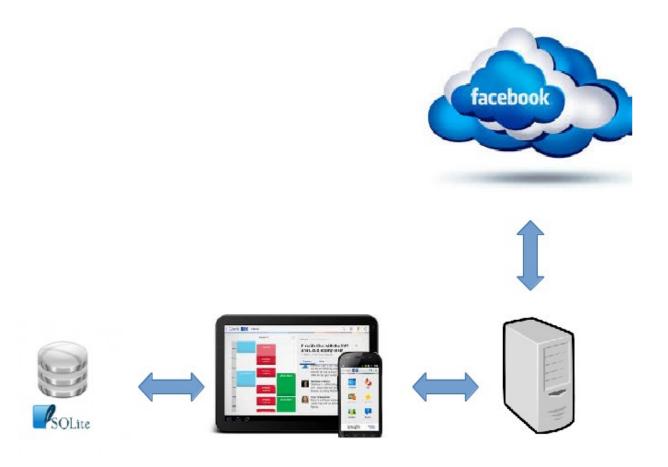


PartyBrowser!

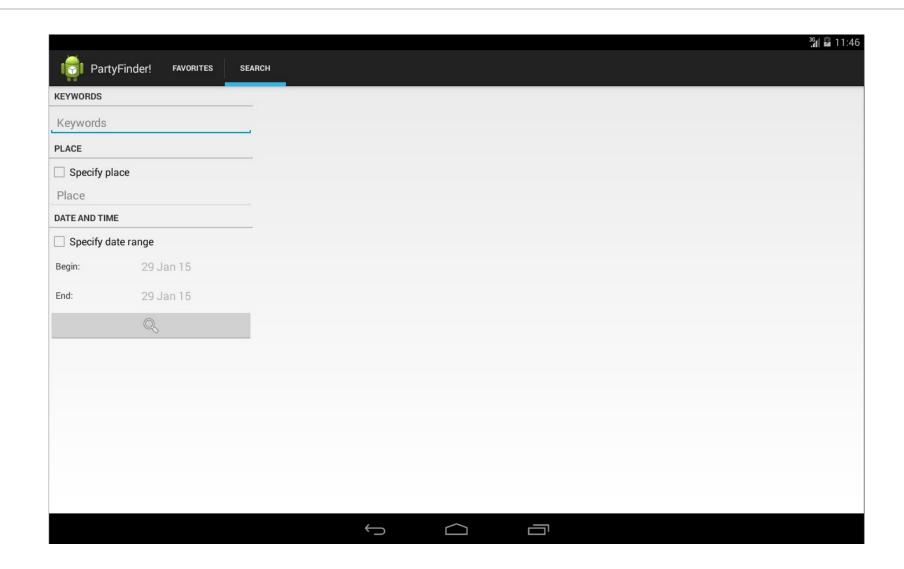
- Searching for events on Facebook
- Using context information
- Saving favorite events
- Filtering and conversion of media
- Tablet and smartphone versions



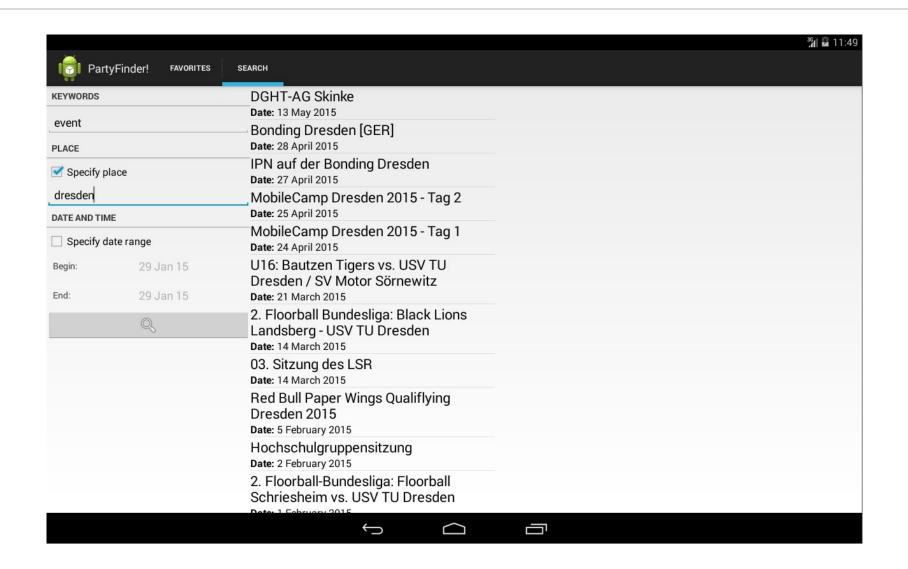




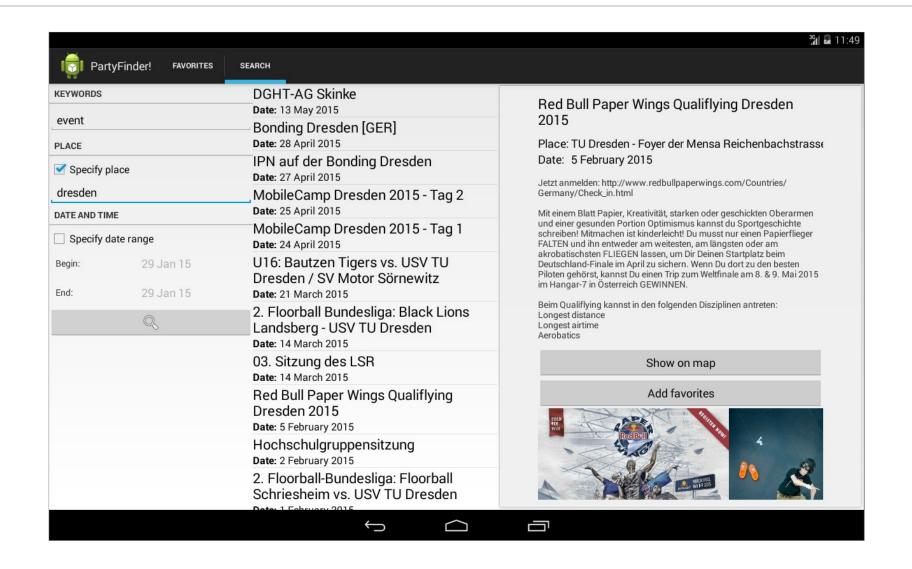




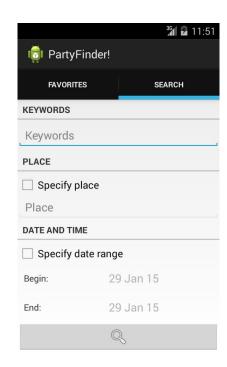








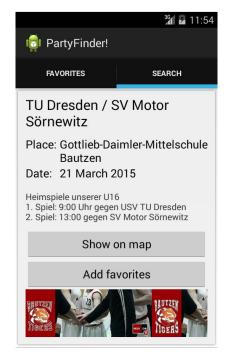






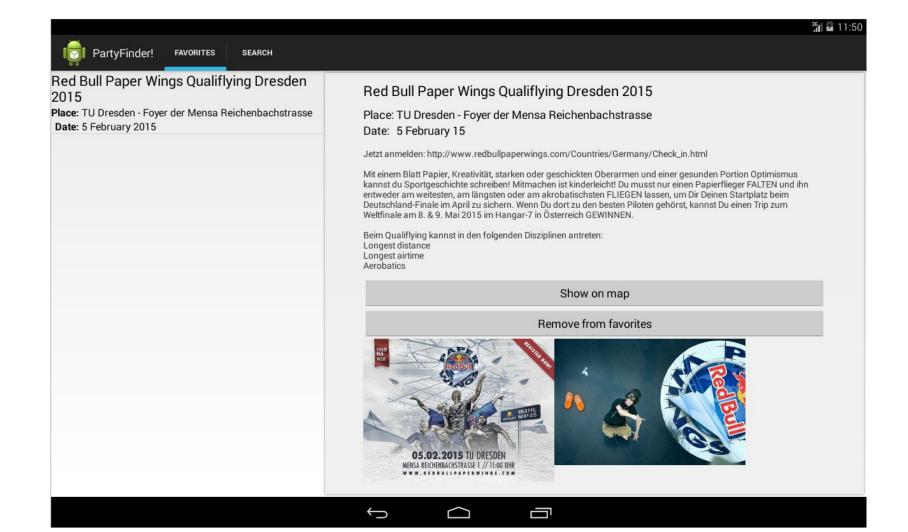






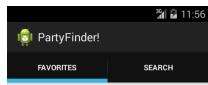












U16: Bautzen Tigers vs. USV TU Dresden / SV Motor Sörnewitz

Place: Gottlieb-Daimler-Mittelschule Bautzer

Date: 21 March 2015

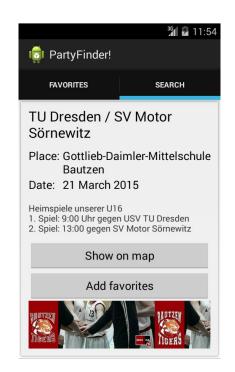
Red Bull Paper Wings Qualiflying Dresden 2015

Place: TU Dresden - Foyer der Mensa

Reichenbachstrasse

Date: 5 February 2015







Technologies

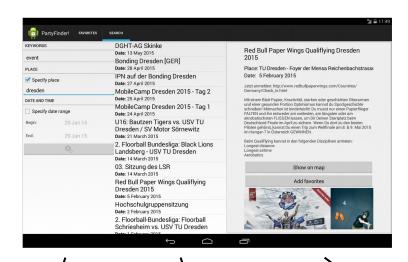
- Android platform
 - Access context information (e.g.ConnectivityManager class)
 - Persistent storage (SQLite)
- User Interface
 - Fragments
 - TouchImageView
- Additional dependencies
 - Google Maps
 - Google APIs Client Library (JSON support)
 - Google HTTP Client Library

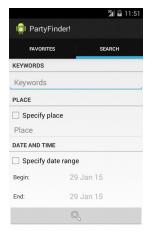
Used by auto-generated Server API library



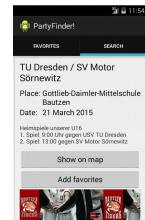
Mobile Application

- Internet connection-dependent behavior
 - Events fetching policy
 - Refreshing favorite events
- Navigation to events
 - Using Google Maps and GPS
- Support various screen sizes
 - Fragments





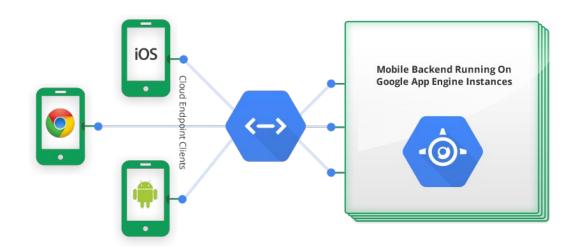






Technologies

- Google App Engine (PaaS)
- Google Cloud Endpoints
- Python (with additional modules)
- Facebook GraphAPI (Python Facebook SDK)





- Obtain events from Facebook (with filtering)
- Image processing
 - Using Python Imaging Library (PIL)
 - Conversion to JPEG
 - Resizing
- Exposed API
 - Searching events
 - Fetching events



Android platform

- Overall complexity
- Implementing UI using Fragments is sometimes problematic
- Backward compatibility
- Context-awareness requires lot of effort

Server

- Application may suffer from underlying platform delays
- Google Cloud Endpoints requires special annotations



Questions?

