TECHNISCHE UNIVERSITÄT DRESDEN

DRESDEN concept

Application Development for Mobile and Ubiquitous Computing

Spots

Final Presentation

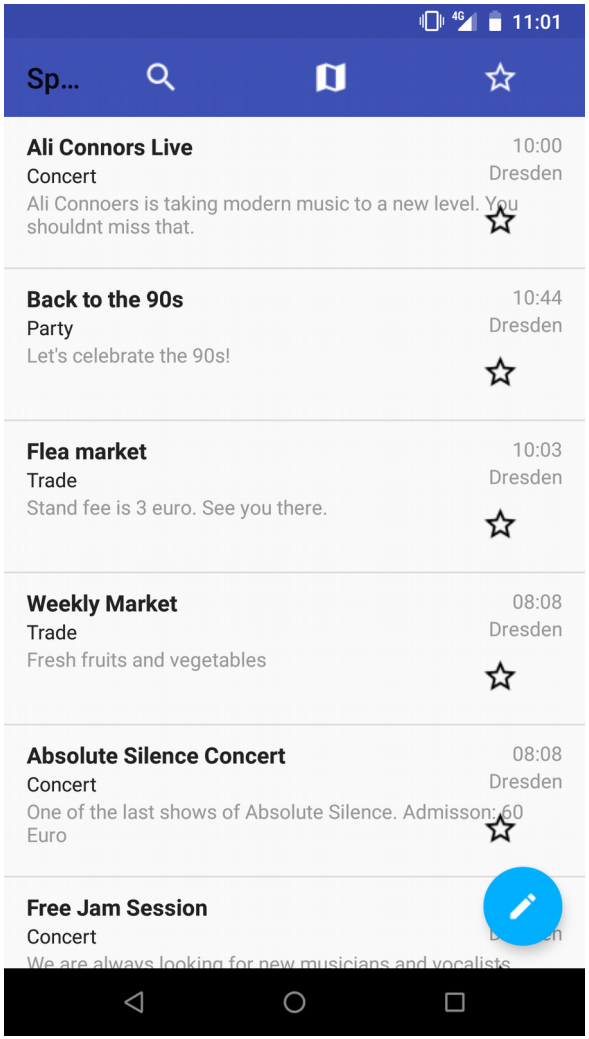
Gruppe 3
Jonas Fischer
Lena Denne
Dresden, 26.01.2018

Spots – Application Scenario

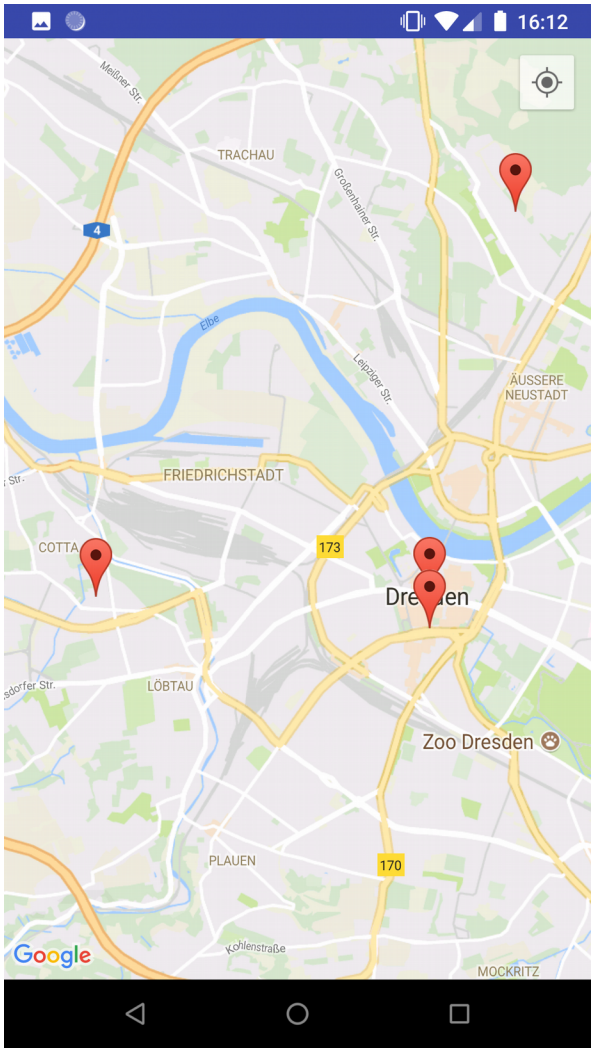
Find exciting events everywhere, whenever you want

- Location-based event finder
- Find events near you, that are happening now
- Search events by location, time and type
- Create your own events
- Mark, share and add events to your calender

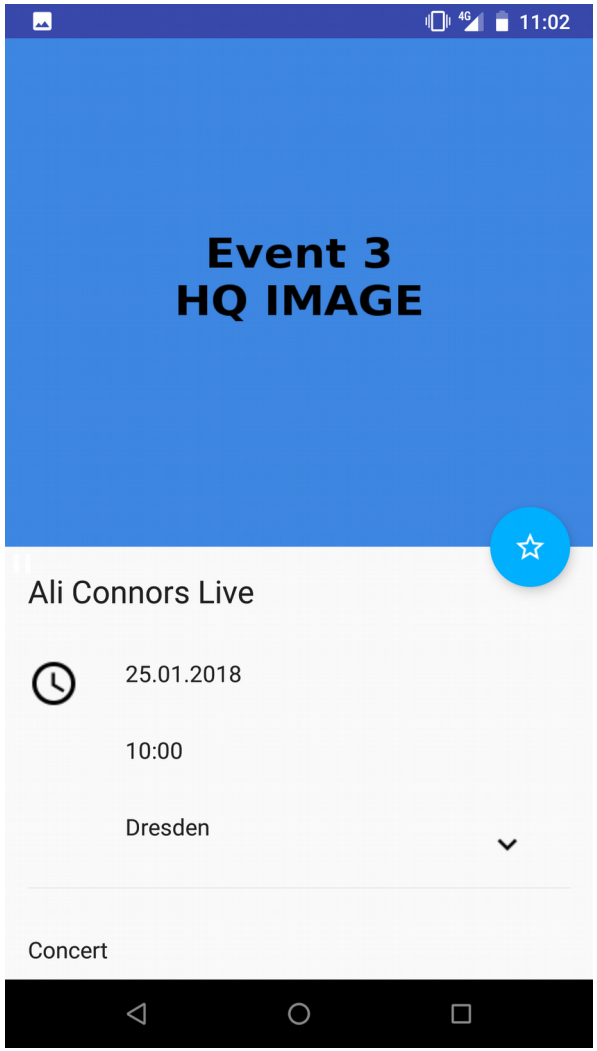
Event List



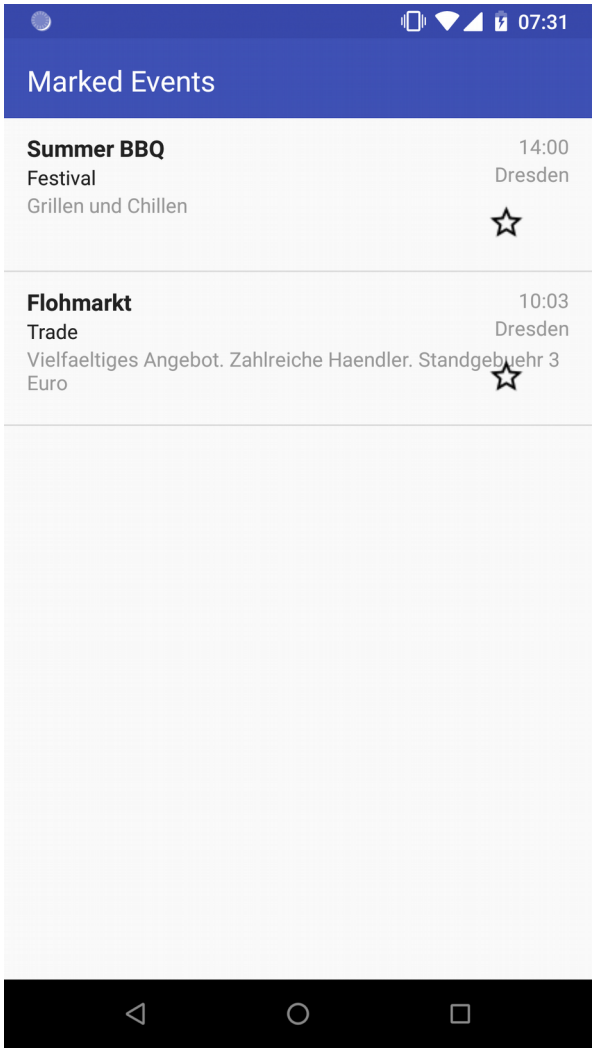
Single Map



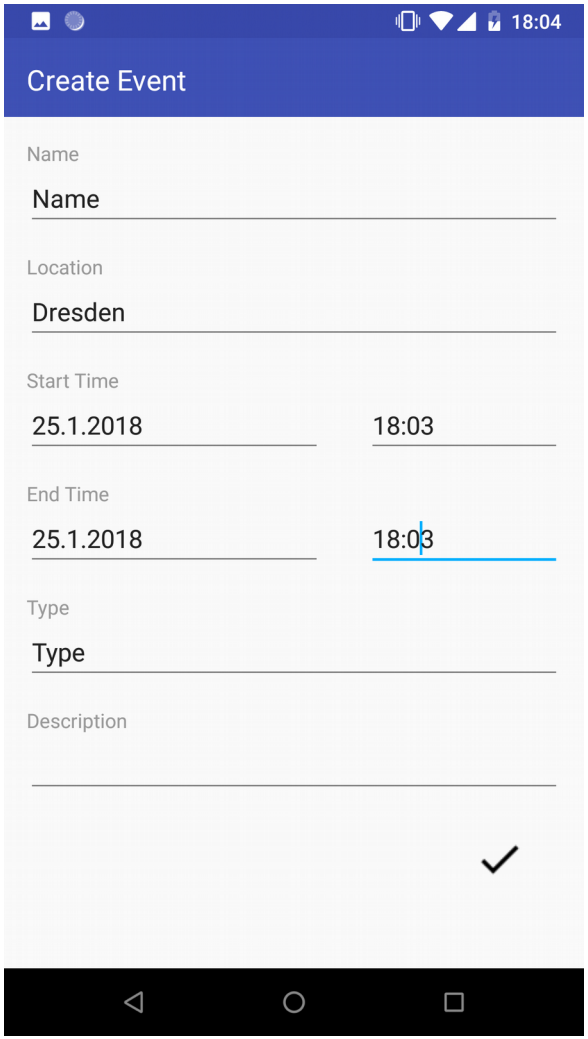
Single Event



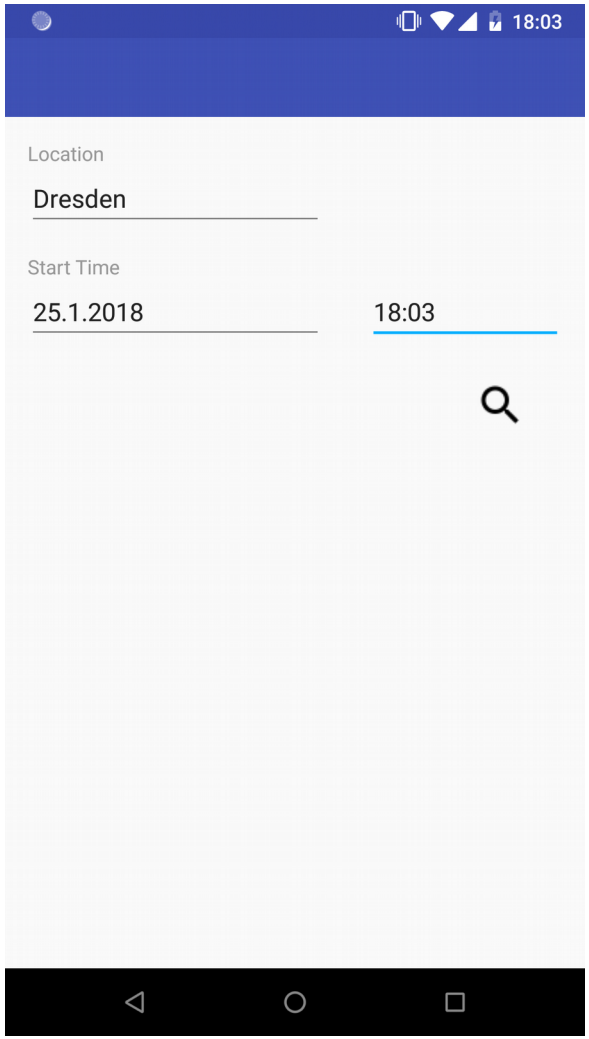
Marked Events List



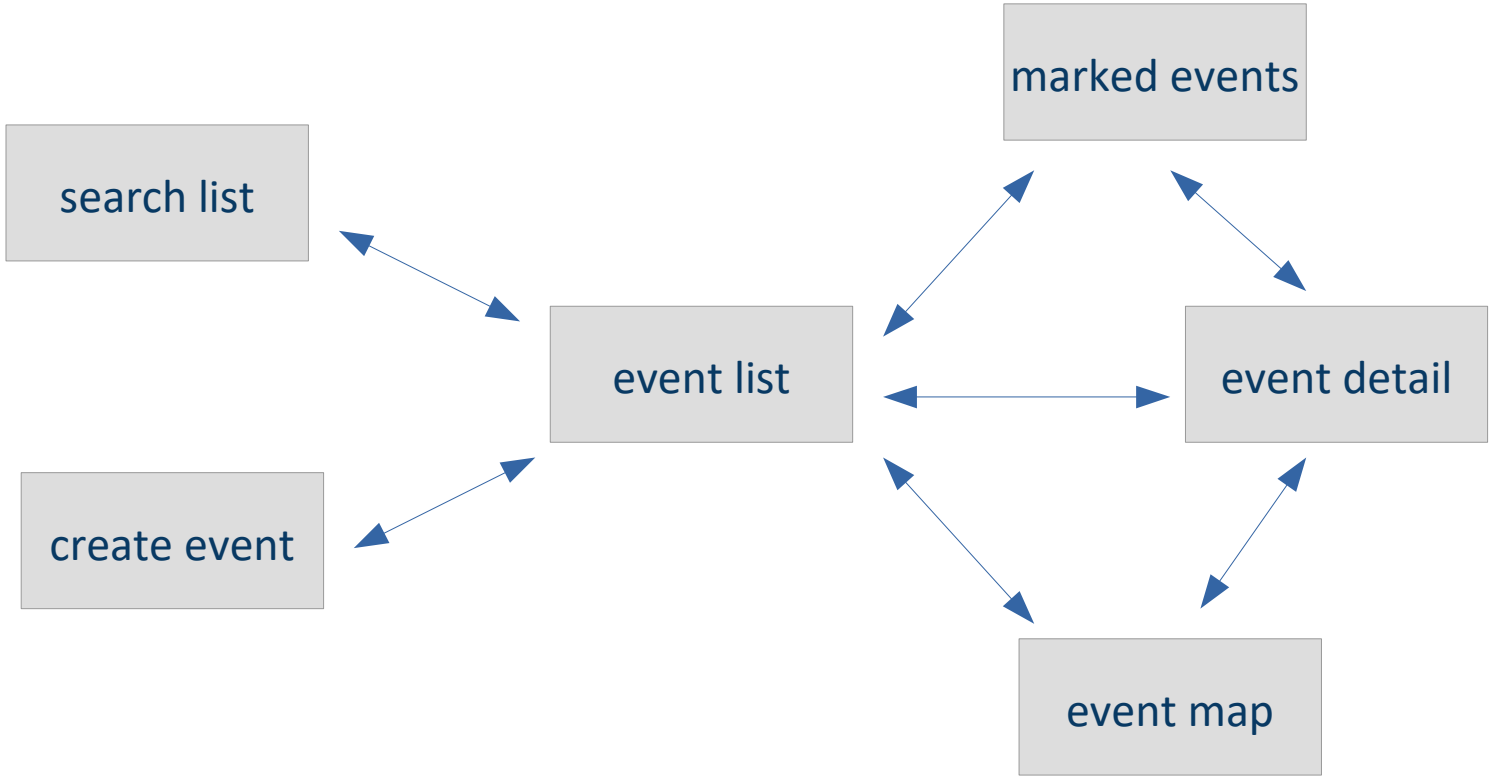
Search



Create Event



Components


marked events
search list
event list
event detail
create event
event map

Contexts

- Personal context
  - The events you marked
- Physical context
  - Your location
  - The current time
- Technical context
  - Connection type

Contexts

- Personal context
  - View the events you marked
  - Marked events are saved in a text file on your phone
  - Saved with ID and ending time
  - Deleted when ending time passed

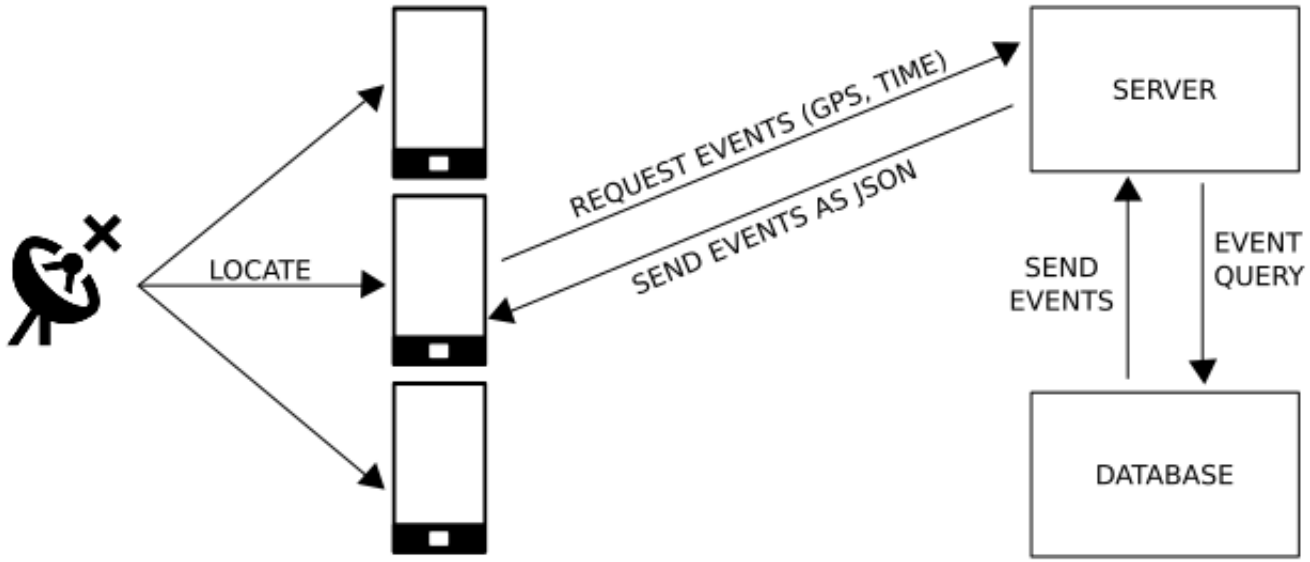
Contexts

- Physical Context
  - Location
    - Get events by current location
    - Display events on a map
      - Uses Google Maps API
    - User can search for events by a specific location name
      - Transformed to Lat, Long by Android Geocoder
    - Internally the location is defined by longitude and latitude
    - Shows all events in a certain vicinity
    - If your location is not available, a default location is used
  - Time
    - Get events by current time
    - Search for events by specific time

Contexts

- Technical context
  - Detect connectivity status with Android ConnectivityManager
    - Poor connection
      - get low quality images to reduce data consumption
      - Rich connection means HSDPA and up
      - Low quality images 400x400 px
      - High quality images 800x800 px
    - No Connection
      - Cache the latest event list on the phone and show when offline

Architecture



Routes

- GetMainEventList
  - Returns events by time, location and optionally by type
  - Returns certain attributes
- GetEvent
  - Returns all attributes of a single event by ID
- GetEvents
  - Returns certain attributes of events by a list of IDs
- AddEvent
- UpdateEvent

Open Issues

- Creator is not implemented
- Can‘t add images when creating events
- Displaying event list after search is faulty

Questions?