

Application Development for Mobile and Ubiquitous Computing

Spots

Final Presentation

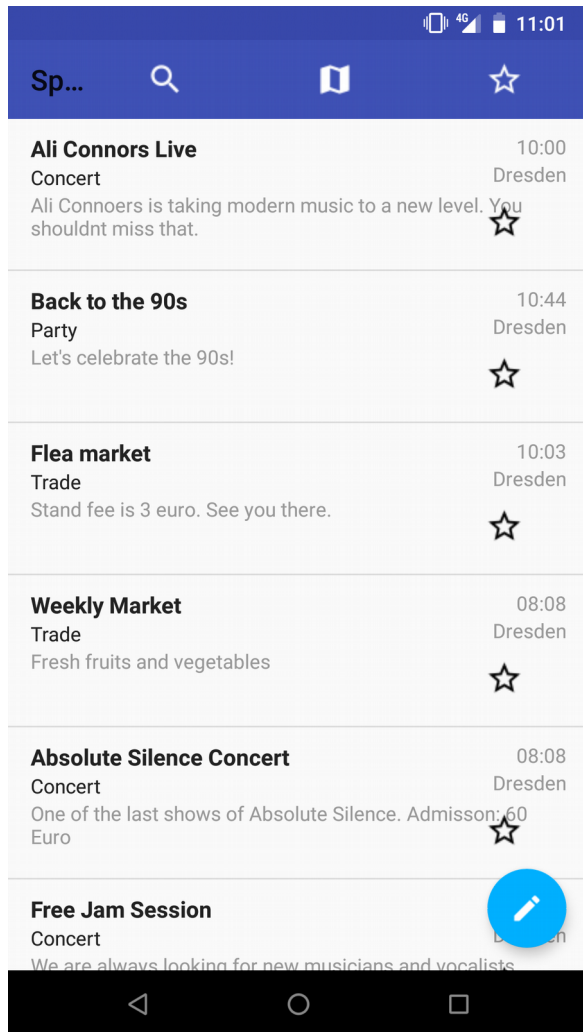
Gruppe 3
Jonas Fischer
Lena Denne
Dresden, 26.01.2018

Spots – Application Scenario

Find exciting events everywhere, whenever you want

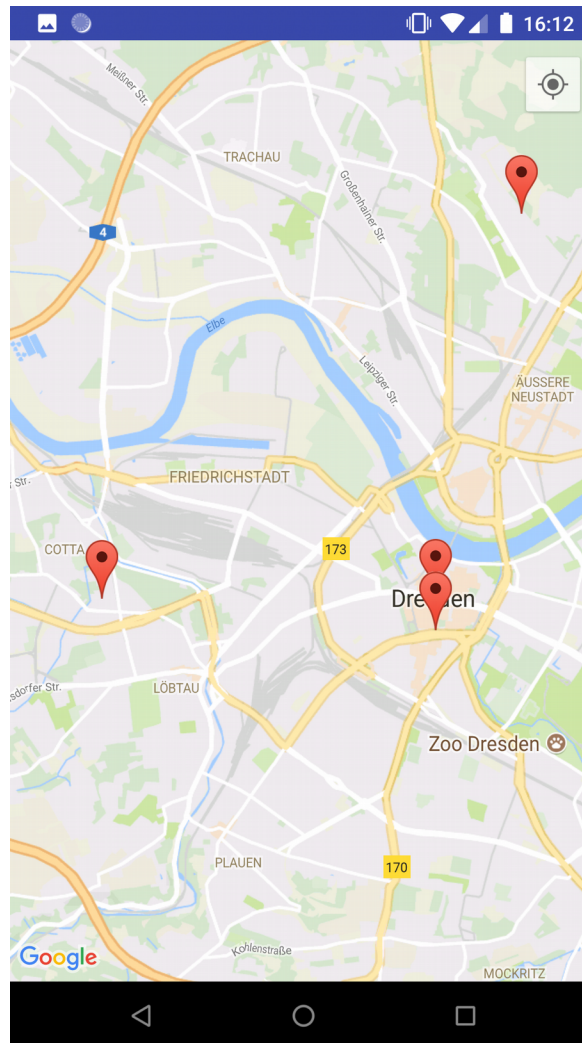
- Location-based event finder
- Find events near you, that are happening now
- Search events by location, time and type
- Create your own events
- Mark, share and add events to your calendar

Event List



Event Name	Time	Location	Details	Star
Ali Connors Live Concert	10:00	Dresden	Ali Connors is taking modern music to a new level. You shouldn't miss that.	★
Back to the 90s Party	10:44	Dresden	Let's celebrate the 90s!	★
Flea market Trade	10:03	Dresden	Stand fee is 3 euro. See you there.	★
Weekly Market Trade	08:08	Dresden	Fresh fruits and vegetables	★
Absolute Silence Concert Concert	08:08	Dresden	One of the last shows of Absolute Silence. Admission: 60 Euro	★
Free Jam Session Concert		Dresden	We are always looking for new musicians and vocalists.	✎

Single Map



A Google Maps screenshot of Dresden, Germany. The map shows several red location pins placed in different parts of the city, including areas like Trachau, Friedrichstadt, and near the Zoo Dresden. The Elbe river is visible winding through the city. The status bar at the top shows a Wi-Fi connection and the time 16:12.

Single Event

Event 3
HQ IMAGE

Ali Connors Live

25.01.2018

10:00

Dresden

Concert

26.01.2018

Marked Events List

Marked Events

Summer BBQ 14:00
Festival Dresden
Grillen und Chillen ☆

Flohmarkt 10:03
Trade Dresden
Vielfaeltiges Angebot. Zahlreiche Haendler. Standgebuehr 3 Euro ☆

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Search

Mobile app screenshot of the 'Create Event' form. The top bar is blue with the text 'Create Event' and the time '18:04'. The form fields are: Name (empty), Location (Dresden), Start Time (25.1.2018, 18:03), End Time (25.1.2018, 18:03), Type (empty), and Description (empty). A checkmark icon is visible at the bottom right of the form area.

26.01.2018

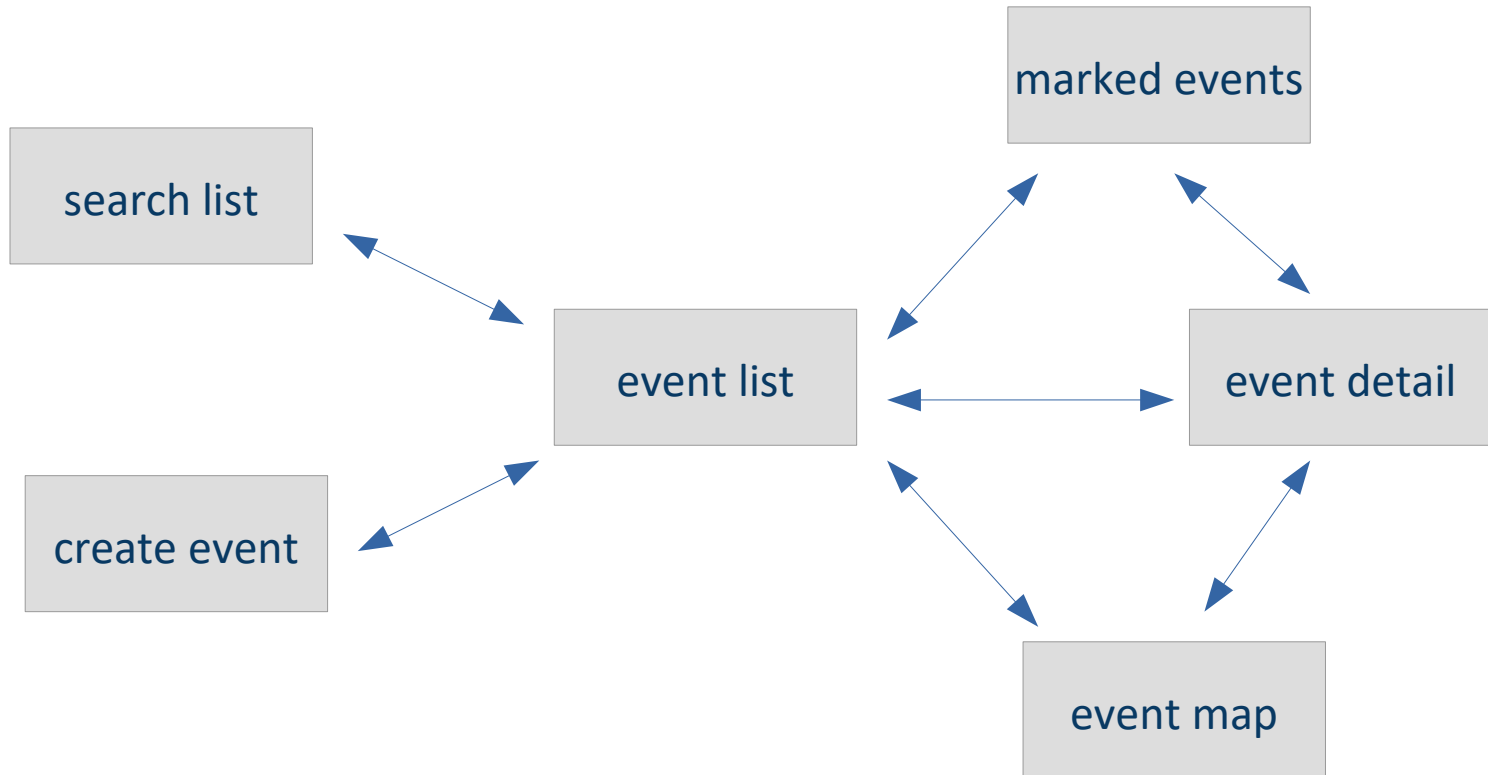
Create Event

Mobile app screenshot of the 'Create Event' form. The top bar is blue with the time '18:03'. The form fields are: Location (Dresden), Start Time (25.1.2018, 18:03), and a search icon (magnifying glass) is visible on the right side of the form area.

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Components



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

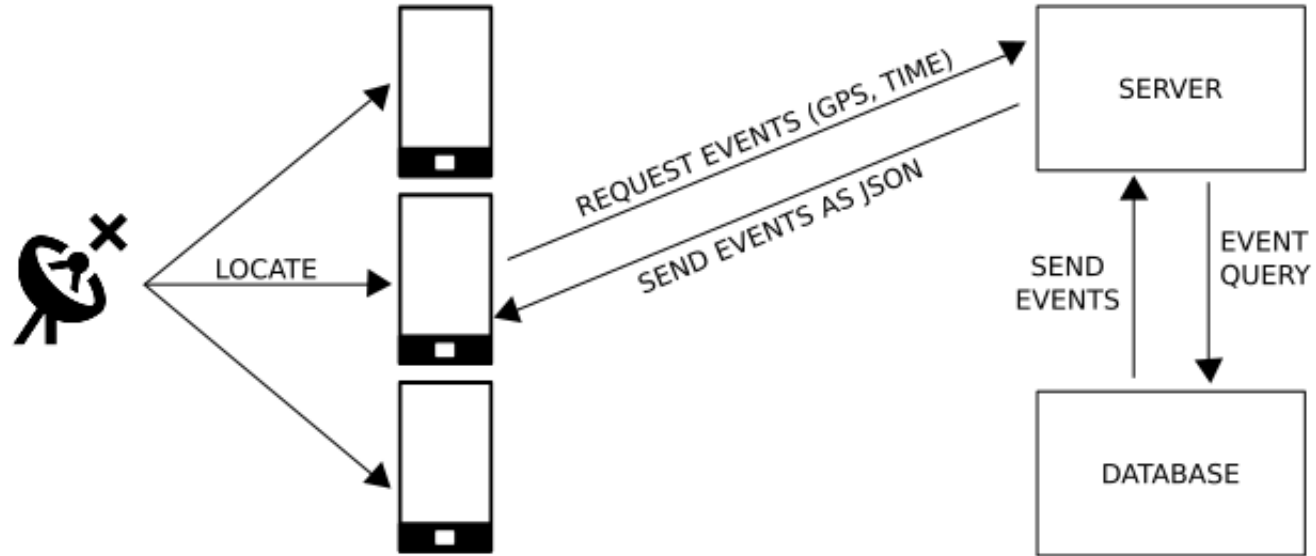
Contexts

- 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?