

Application Development for Mobile and Ubiquitous Computing

Spots

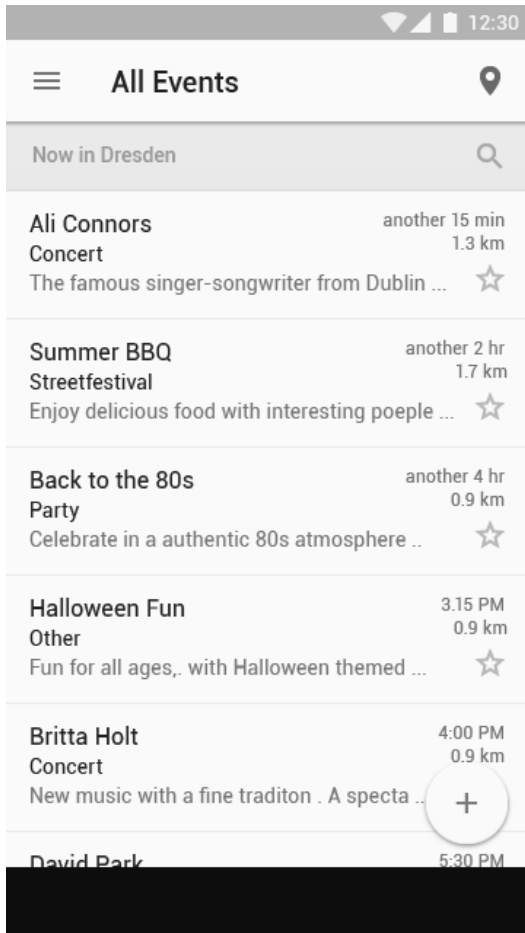
Adaption Presentation

Gruppe 3
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Lena Denne
Dresden, 15.12.2017

Spots – Application Scenario

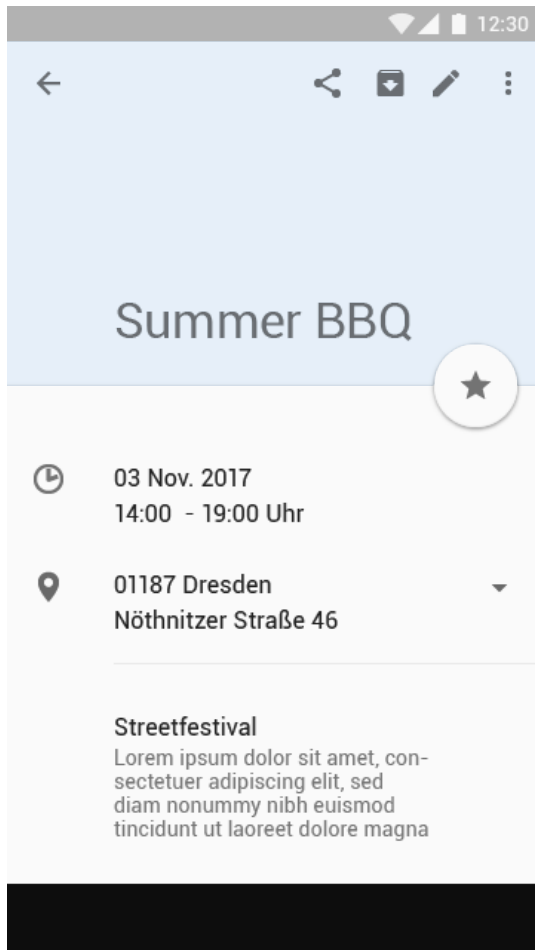
Find exciting events everywhere, whenever you want

- 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

- Main View
- Shows all events, that fit the search parameters
- Can be searched by time, location and type
- Default parameters are your current time, current location and all types

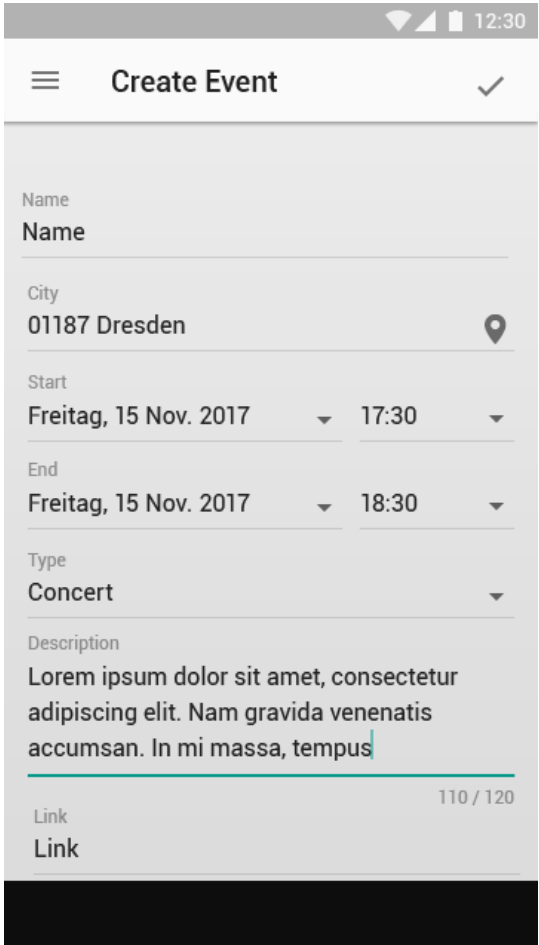


- Event

- Shows all Information for a single Event
- Can be reached by selecting a event in the Event List
- Information a event has are:
 - Name
 - Start and end time
 - Longitude, latitude
 - Creator
 - Description
 - Type
 - Image

- Create Event

- Create your own Events
- Location can be Typed in or chosen on a map
- Inputting date and time opens date and time pickers
- Type is a dropdown menu
- Description has a character limitation



Create Event

Name
 Name

City
 01187 Dresden

Start
 Freitag, 15 Nov. 2017 17:30

End
 Freitag, 15 Nov. 2017 18:30

Type
 Concert

Description
 Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam gravida venenatis accumsan. In mi massa, tempus

110 / 120

Link
 Link

Contexts

- Location
 - Get events by current location
 - Search for events by specific location
 - Internally the location is defined by longitude and latitude
 - User can search for location by name
 - Shows all events in a certain vicinity, that already started or are going to start within 12 hours
- Time
 - Get events by current time
 - Search for events by specific time
- User
 - Create private eventlist by marking events

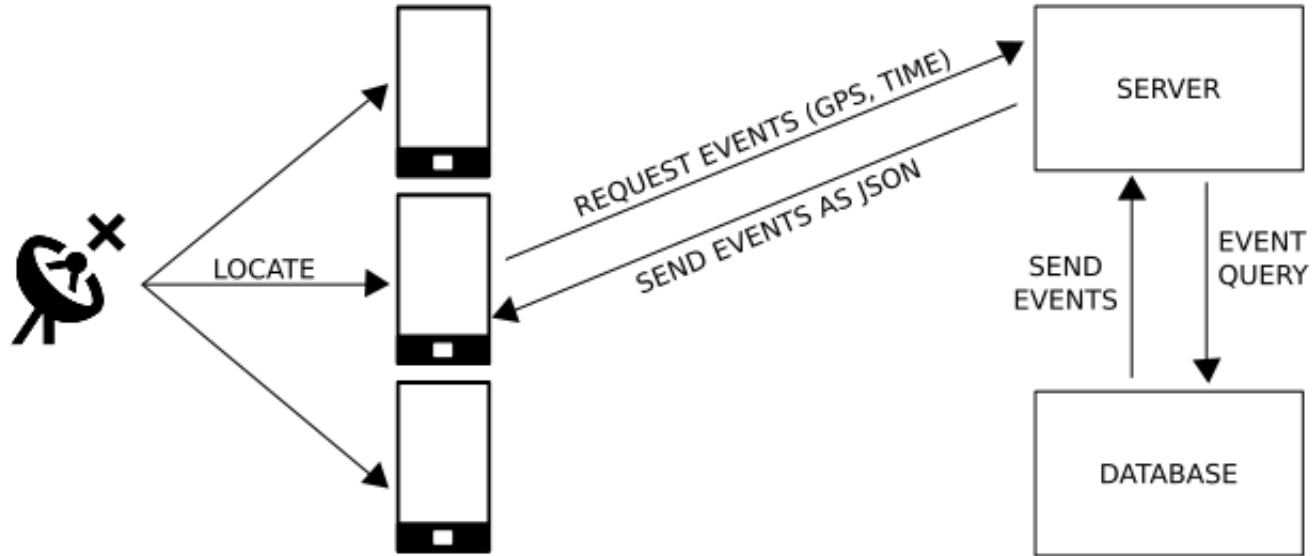
Contexts / Adaption

- Connectivity
 - Detect connectivity status with Android ConnectivityManager
 - When offline cache the latest state on the phone
 - Time delayed event creation
 - During 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
- Marked Events
 - Saved on the users phone
 - Saved with ID and ending time
 - Deleted when ending time passed

Technologies

- Client
 - Android
 - GPS
- Server
 - MySql
 - PHP
 - Json

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
- GetCreatorEventList
- AddEvent
- UpdateEvent

Work plan

28.10.2017 – Find and flesh out Idea

- Choose Technologies and Platform
- create Use cases
- design mockups

02.11.2017 – Submit first presentation

03.11.2017 – begin implementation

14.11.2017 – Finish setting up Database and Server

08.12.2017 – Submit Adaption concept presentation

15.12.2017 – First prototype

05.01.2018 – Begin Testing

25.01.2018 – Submit Final presentation

Questions?