

Application Development for Mobile
and Ubiquitous Computing

Don't worry

Final presentation

Group 11

Gustav Elias Landfried Kraatz

Lidia Roszko

Dresden, 26.01.2018

Content

- Recap
- Components and technologies
- Challenges
- Adaptations

What do you do
when you are sad?



The answer is ...

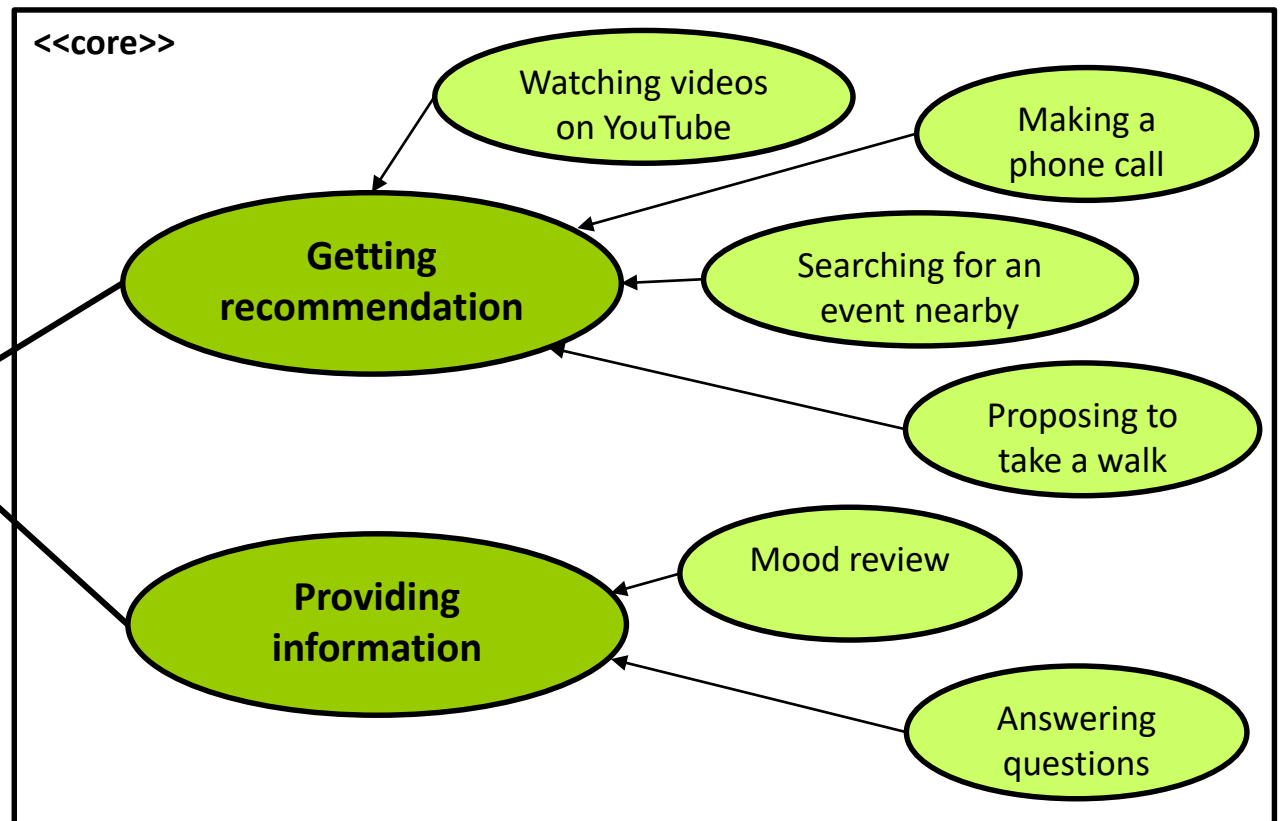
Don't worry



Use cases



User



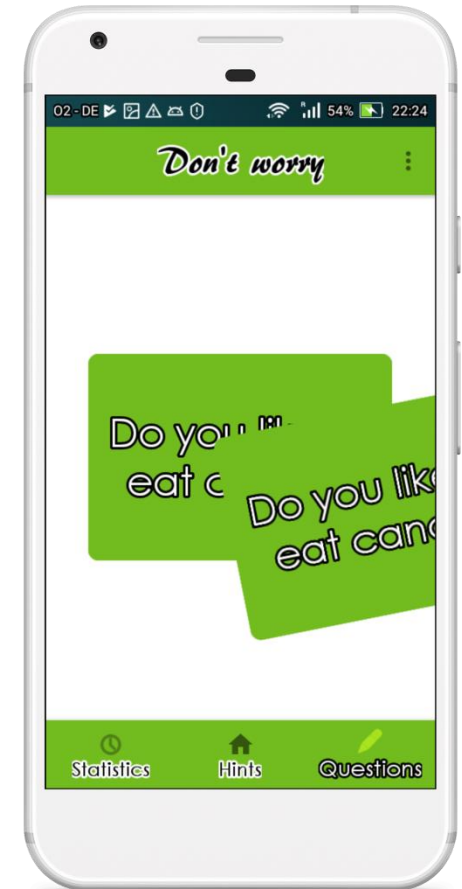
Components and technologies

- MainActivity
- QandAActivity
- MoodActivity
- StatisticsActivity
- WeatherActivity
- EventActivity
- YouTubeActivity
- PhoneActivity
- HintActivity
- HelpActivity
- MapsActivity

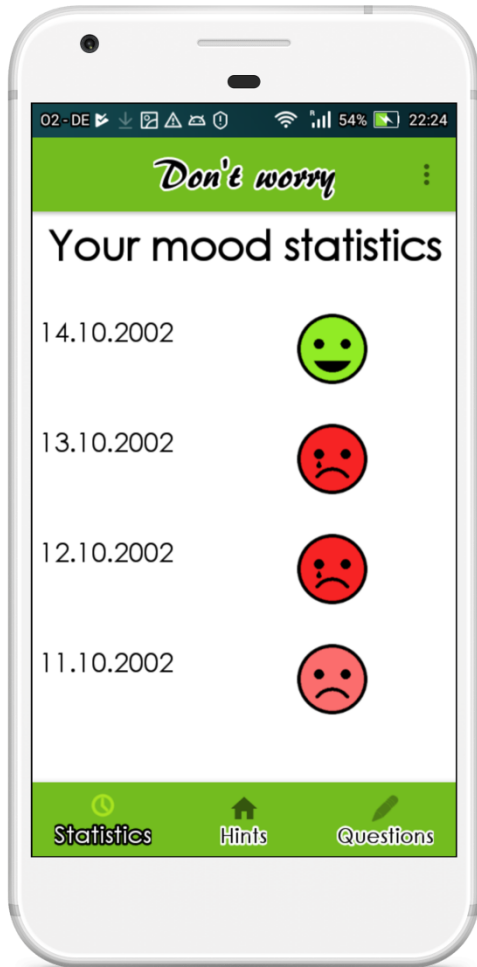


Components and technologies

- MainActivity
- QandAActivity
- MoodActivity
- StatisticsActivity
- WeatherActivity
- EventActivity
- YouTubeActivity
- PhoneActivity
- HintActivity
- HelpActivity
- MapsActivity



Swipecards library



Graph View Library

Components and technologies

- MainActivity
- QandAActivity
- MoodActivity
- StatisticsActivity
- WeatherActivity
- EventActivity
- YouTubeActivity
- PhoneActivity
- HintActivity
- HelpActivity
- MapsActivity

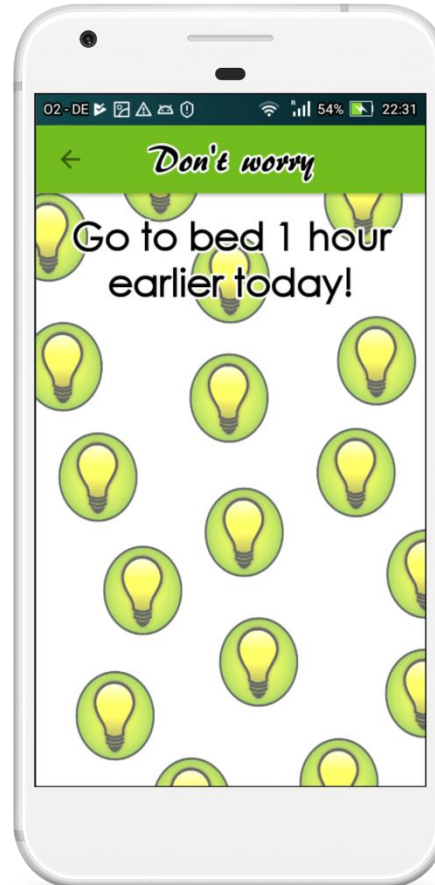
Components and technologies

- MainActivity
- QandAActivity
- MoodActivity
- StatisticsActivity
- HelpActivity
- MapsActivity
- WeatherActivity
- EventActivity
- YouTubeActivity
- PhoneActivity
- HintActivity



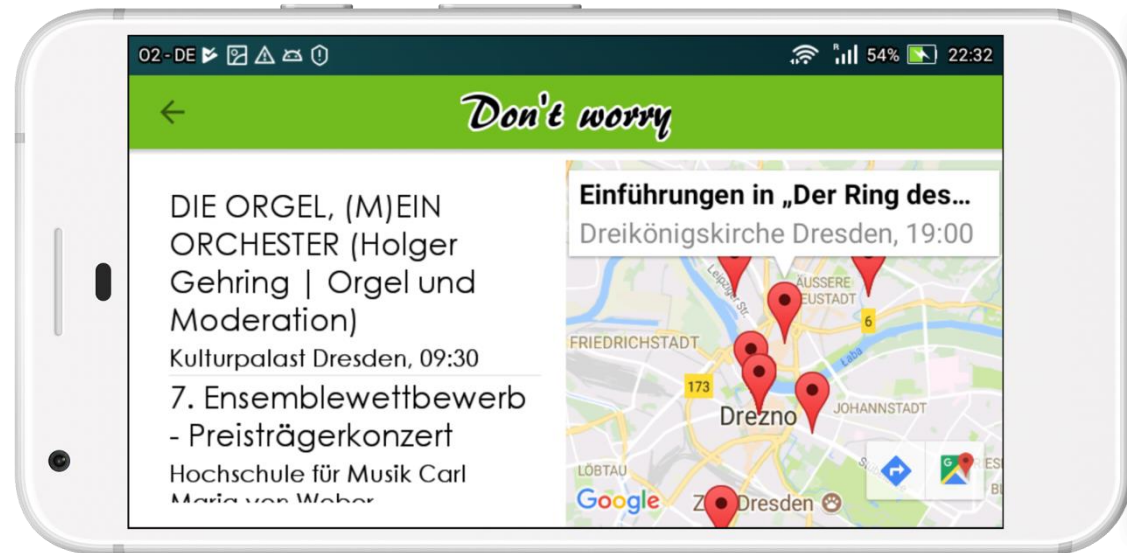
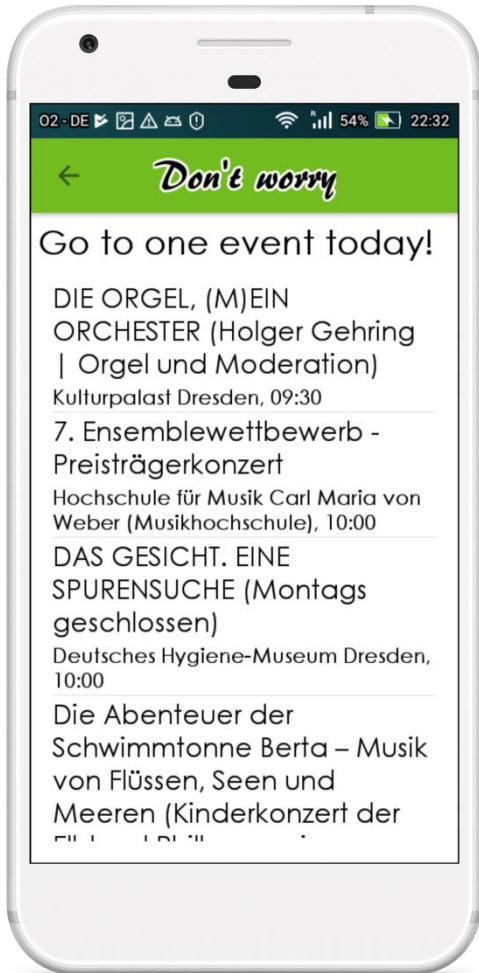
Open Weather Map API
RESTful service (JSON, HTTP)

Permission Internet



YouTube Android
Player API

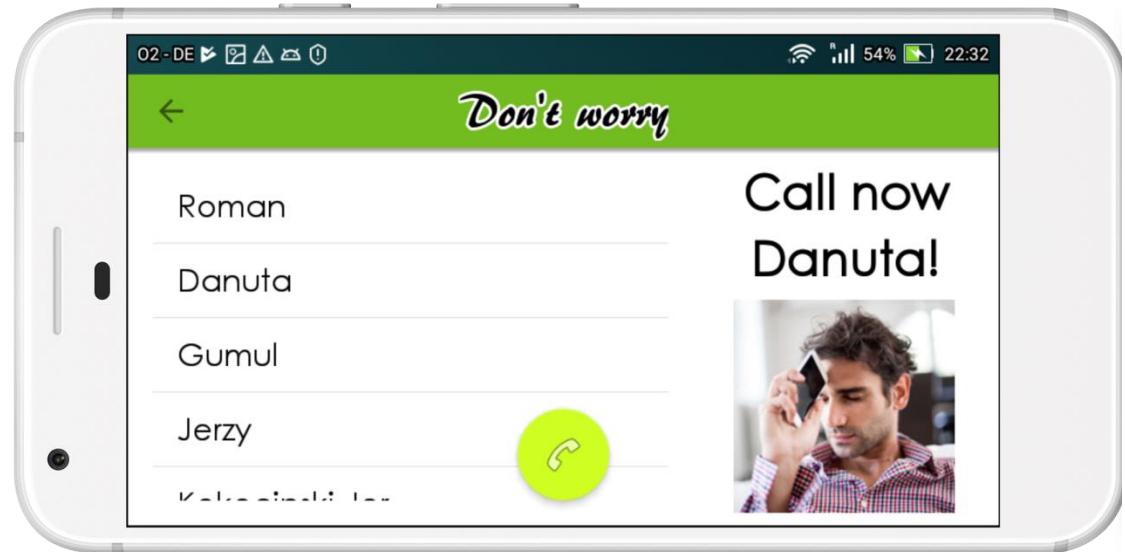
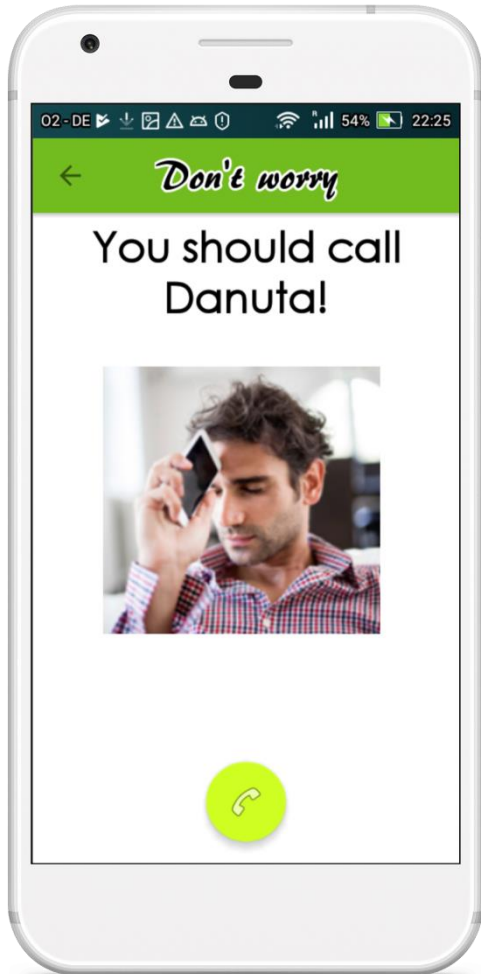
Permission Internet



Google Maps API
Geocoder

<https://www.kulturkalender-dresden.de>

Permission Internet



Permission Read Call Log, Read Contacts, Call Phone

Offline/Connectivity challenges

- Challenges
 - Minimization of data exchange
 - Providing hints despite of having no Internet Connection at the moment
- Context
 - Network

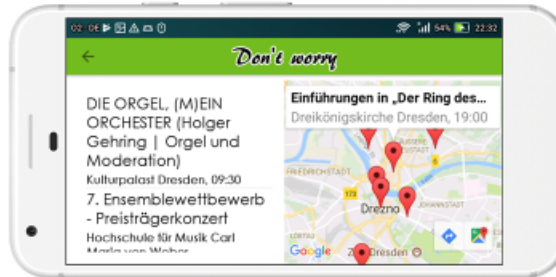
■ Adaptation (android.net.ConnectivityManager)

	WIFI	No WIFI, mobile Internet	No connection
YouTube videos	✓	✗	✗
Weather	✓	✓	(last saved weather state if it is not older than 3 hours)
Google Maps	✓	✗	✗
Events	✓ (downloading of events for today, tomorrow, day after tomorrow if they are not in DB)	✓ (downloading events for today if they are not in DB)	✓ (today's events, provided they are already in DB) ✗ (no events, in case of empty DB)

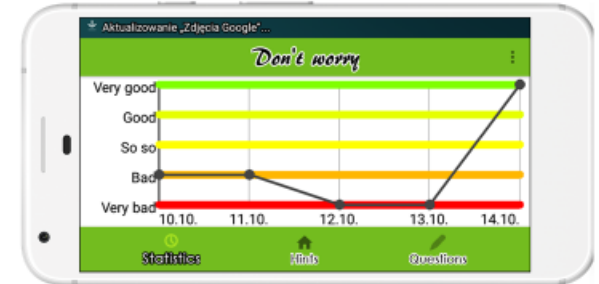
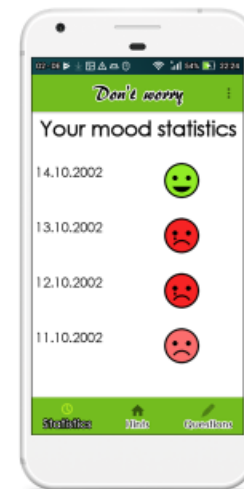
Usability challenges

- Challenges
 - Intuitiveness
 - Providing user specific data
 - Easy menu navigation
- Context
 - Handling

- Adaptation
 - Bottom navigation (Statistics/Hint/Questions)
 - Easy structure :
 - ✓ Main menu
 - ✓ Hints
 - ✓ Settings
 - Swiping like in Tinder for answering
 - Different layout for the landscape and portrait mode – giving extra information about place of events or bigger overview of statistics



Google Maps API
Geocoder
<https://www.kulturkalender-dresden.de>
Permission Internet



Graph View Library





Do you have any question?

Thank you for your attention
and
Don't worry, be happy!



Quellen

- <https://greatist.com/live/signs-of-depression-am-i-depressed-or-sad>
- www.android.pk
- <https://de.wikipedia.org/wiki/SQLite>
- <https://mockuphone.com/preview/18e7a63f8974e268ae64896bee0dc189>
- <https://www.facebook.com/youtube>
- <https://sentry.io/for/java/>