

# Mobile Applications and Services

## Challenge Project: Ready2Meet

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- ▶ Facilitate creating events and inviting people
- ▶ Provide tool for organizing the people joining the event
- ▶ Invite people you do not yet know based on their location
- ▶ Receive notifications on possible activities nearby

# Business Model

- ▶ Target users: Everyone
  - ▶ Development currently only for Android
  - ▶ Marketing strategy:
    - ▶ Offer free events
    - ▶ Discounts for events
- ⇒ Gain many users for the app

# Business Model – Monetization

## Possibilities:

- ▶ Completely free (i.e. open source)
- ▶ Advertisements
- ▶ Selling tickets for commercial events
- ▶ In-App sales:
  - ▶ No ads
  - ▶ Extended features: Target business customers or unlimited events for the user

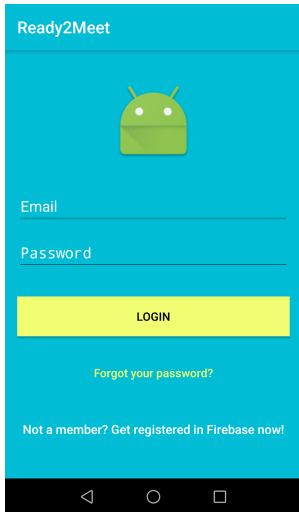
## Selected strategy:

- ▶ Free basis version (ads possible)
- ▶ In-App purchases for extended features

# Competitors

- ▶ Fever:
  - ▶ Generates an event list taking into account your interests
  - ▶ Only few events, only big cities
  - ▶ Focus on commercial events
- ▶ WeTorch
  - ▶ Free app that provides a selection of events near your location
  - ▶ Only in Spanish
  - ▶ Focus on cultural events and arts
- ▶ Event Manager: helps event organizers to grow their event reach and manage it
- ▶ Event Manager by Billeto: gives an overview of the event for event managers
- ▶ Facebook: Invite friends to events

# UI Design and Click Stream

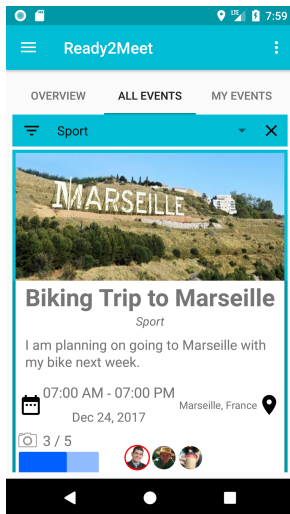


(a) Login Screen

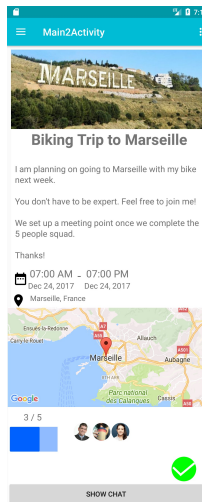


(b) Start Screen

# UI Design and Click Stream

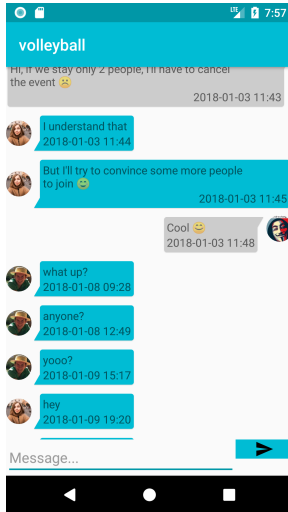


(c) Event List

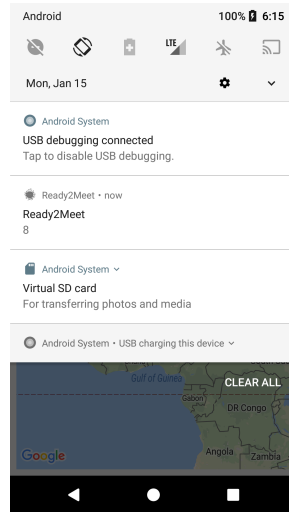


(d) Event Details

# UI Design and Click Stream




(e) Chat



(f) Chat Notification



# UI Design and Click Stream



UI Design and Click Stream

Main2Activity

**Title:** Barbeque in my garden

**Start Time:** WED, DEC 20, 2017 AT 08:15 PM

**End Time:** WED, DEC 20, 2017 AT 09:15 PM


**Place:** 4 AVENUE GEORGES POMPIDOU, 06560 VALBONNE, FRANCE

**Capacity:** 10

**Category:** Outdoor

**Notification** 5 km

(g) Add Event



Main2Activity

Click to add photo

**Use this place?**

EURECOM  
Campus SophiaTech, 450 Route des...

**CHANGE LOCATION** **SELECT**

Notification area: 1 km

(h) Add Event Location

## Use Case – Joining an event

- ▶ User is in a new city (e.g. holidays) and wants to do something
- ▶ User opens the app and sees events of different types nearby
- ▶ User can join the event
- ▶ During event: user can take and share pictures
- ▶ In case of notifications: User is notified about new events or when his location changes

## Use Case – Creating an event

- ▶ User has an idea for an event but doesn't know anyone
- ▶ User opens the app and creates the event (time, place, category, capacity, . . .)
- ▶ User can manage participants
- ▶ Participants can organize themselves in a chatroom which is automatically created

# SW Architecture – Database

**fr.eurecom.Ready2Meet.database::User**

- + DisplayName : String
- + ParticipatingEvents: Map<String, Boolean>
- + ProfilePictureURL : String

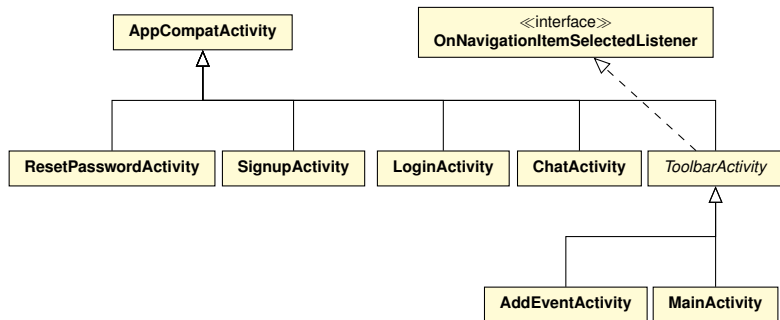
**fr.eurecom.Ready2Meet.database::Message**

- + message : String
- + senderId : String
- + time : String

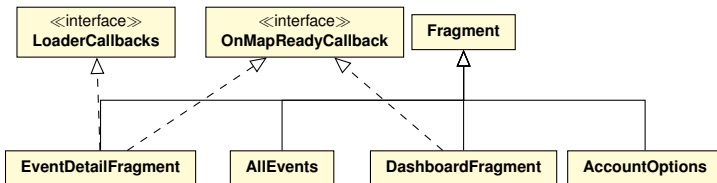
**fr.eurecom.Ready2Meet.database::Event**

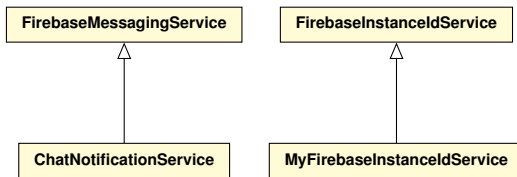
- + id : String
- + title : String
- + description : String
- + owner : String
- + current : Long
- + categories : Map<String, Boolean>
- + capacity : Long
- + picture : String
- + place : String
- + startTime : String
- + endTime : String
- + Participants : Map<String, Boolean>
- + notificationArea : Long
- + latitude : Double
- + longitude : Double

# SW Architecture – Activities

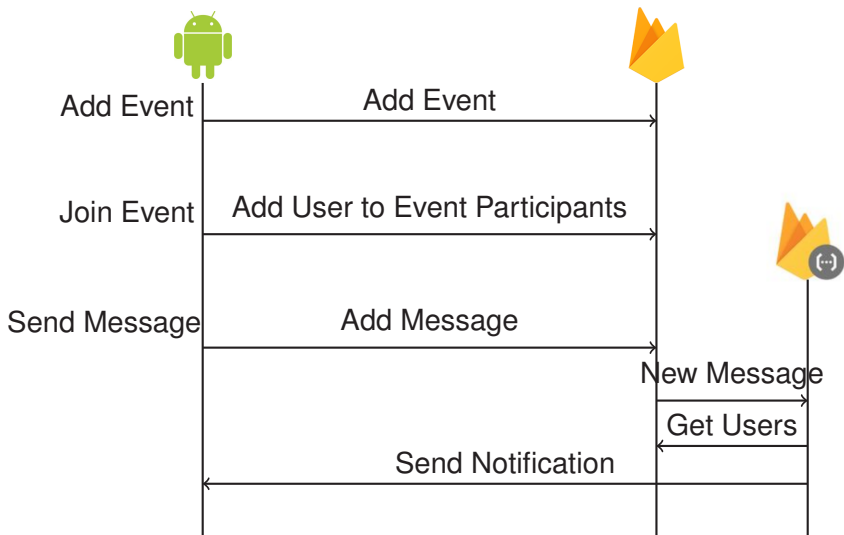


# SW Architecture – Fragments





# Interaction with Backend





## Technical Details

### Permissions:

- ▶ Internet
- ▶ Location
- ▶ Read and write calendar

### Frameworks used:

- ▶ Firebase: Realtime database
- ▶ Firebase Cloud Functions
- ▶ Picasso/Glide: Image rendering
- ▶ Google Play Services: Maps/Places
- ▶ UI: RoundCornerProgressBar, circleimageview, customcheckbox

- ▶ Git (repo: <https://github.com/KuechA/mobEvent>)
- ▶ Android Studio
- ▶ Agile development using 2 techniques:
  - ▶ Rapid application development: Prototyping, Adjustment of requirements
  - ▶ Chaos model: Resolve most important issue first
- ▶ Continuous discussion about own task attributions, issues etc. via WhatsApp

## Status and Planning – Project status

- ▶ Creating and joining events
- ▶ Real-time information for the user
- ▶ User-preferences taken into account
- ▶ Interaction with calendar
- ▶ Photo gallery for each event
- ▶ Weather forecast for event time (OpenWeatherMap)
- ▶ Chat for each event (incl. notifications)

### Facts:

- ▶ > 180 commits
- ▶ 26 Java classes, > 3500 LoC
- ▶ 32 xml layout files, > 2500 LoC
- ▶ Node JS for backend, < 100 LoC

## Status and Planning – Task attribution

- ▶ Berkay:
  - ▶ User management
  - ▶ Event list
  - ▶ UI enhancements
  - ▶ Support with event details
- ▶ Alex:
  - ▶ Adding events
  - ▶ Chat (incl. notifications)
  - ▶ Landing page
  - ▶ Event details (incl. calendar query, weather)
  - ▶ Backend (Firebase functions)
  - ▶ UI improvements
- ▶ Saad: UI

# DEMO

# Questions?