



# Ready2Meet Android Application

## Semester Project Spring 2018

Berkay KÖKSAL

# Idea

- Facilitate creating events and inviting people
- Provide tool for organizing the people joining the event
- Interact with users based on location
- Receive notifications on possible activities nearby

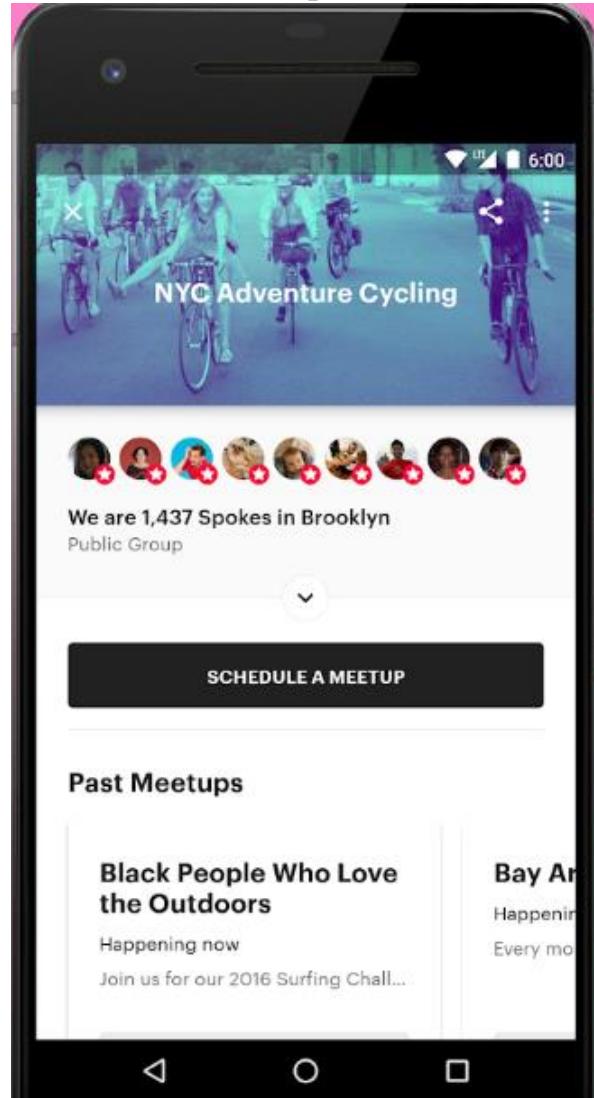
# Business Model

- Target users: Everyone
- Development platform: only for Android (SDK 17+)
- Marketing strategy:
  - Offer free events
  - Discounts for events
  - Gain as many users as possible

# Monetization

- Completely free to use
- Possible joint event ticket sales with organisers
- Advertisement inside the application (not the best option)
- In-App sales:
  - Remove Ads
  - Premium Subscription (extra features)

# Competitors

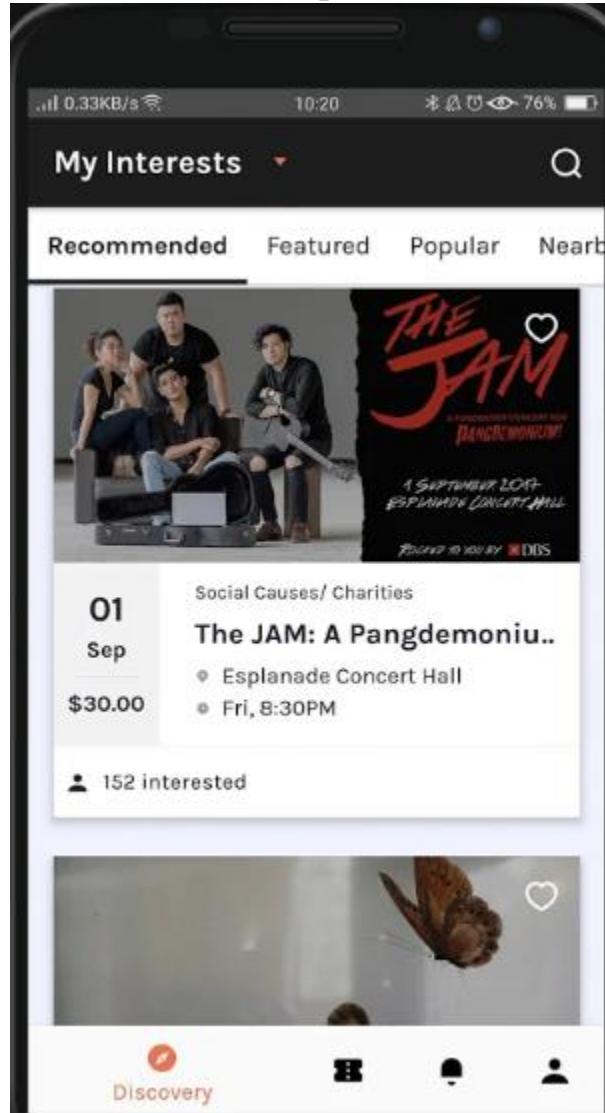


- MeetUp

Great suggestion system  
Notification system is very good

But, it is group based not event based.  
Individual users can't create meetups  
No direct interaction between users

# Competitors

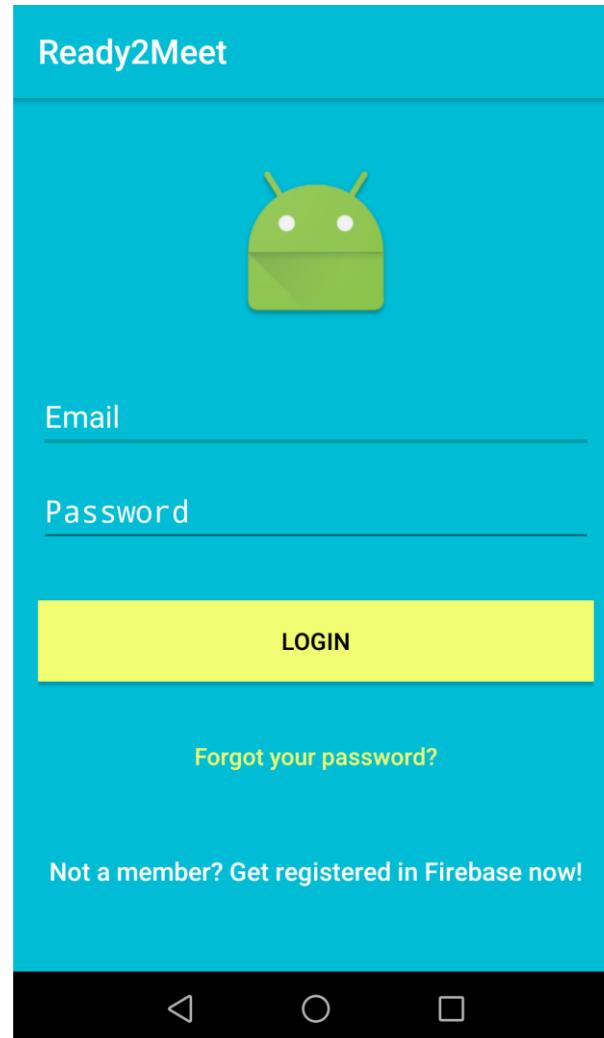


- BeScene

Great in app ticket sale system  
Interconnected comments with Facebook

But, UI is not easy to use and again normal users can't create events.

# UI Design and Click Stream



Login Screen



Start Screen

# UI Design and Click Stream

Ready2Meet

UPCOMING



See you there

02:05 PM - 04:05 PM  
Jun 03, 2018 Jun 03, 2018

Weather forecast: 22.7 °C  
Powered by OpenWeatherMap

5 Boulevard Charles Guillaumont, 06160 Antibes, France



Grasse Mougins Cannes Antibes Cagnes-sur-Mer

4 / 10



SHOW CHAT

Message...

Event Details 1

Ready2Meet

See you there

02:05 PM - 04:05 PM  
Jun 03, 2018 Jun 03, 2018

Weather forecast: 22.7 °C  
Powered by OpenWeatherMap

5 Boulevard Charles Guillaumont, 06160 Antibes, France



Grasse Mougins Cannes Antibes Cagnes-sur-Mer

4 / 10



SHOW CHAT

Event Details 2

Beach Volleyball

So which bus are we taking to go there?  
2018-06-02 14:13

There is one line 1 at 13.05 from the GRA.  
2018-06-02 14:17

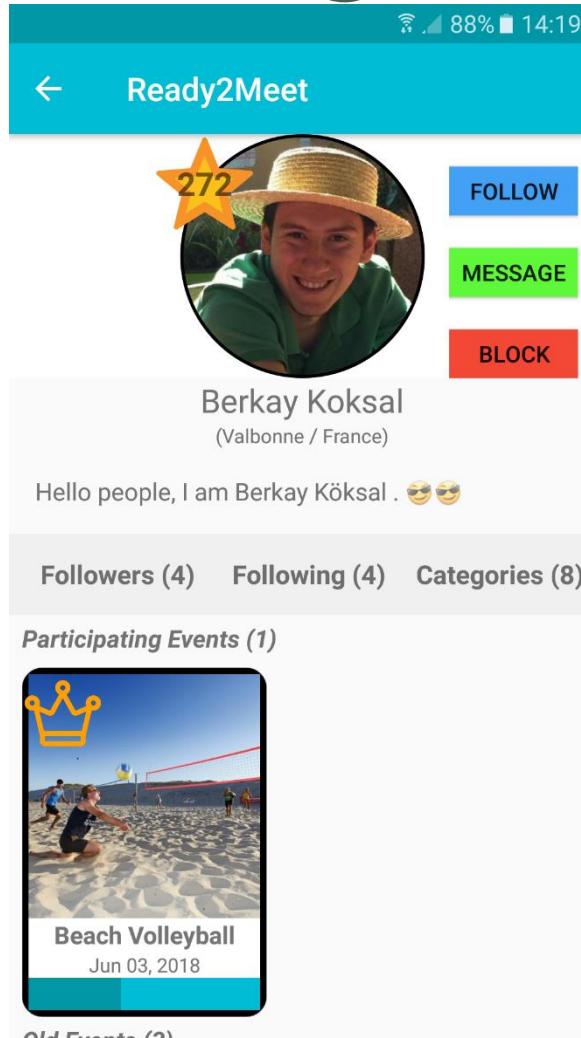
The pictures look amazing 😊😊  
2018-06-02 14:22

Message...

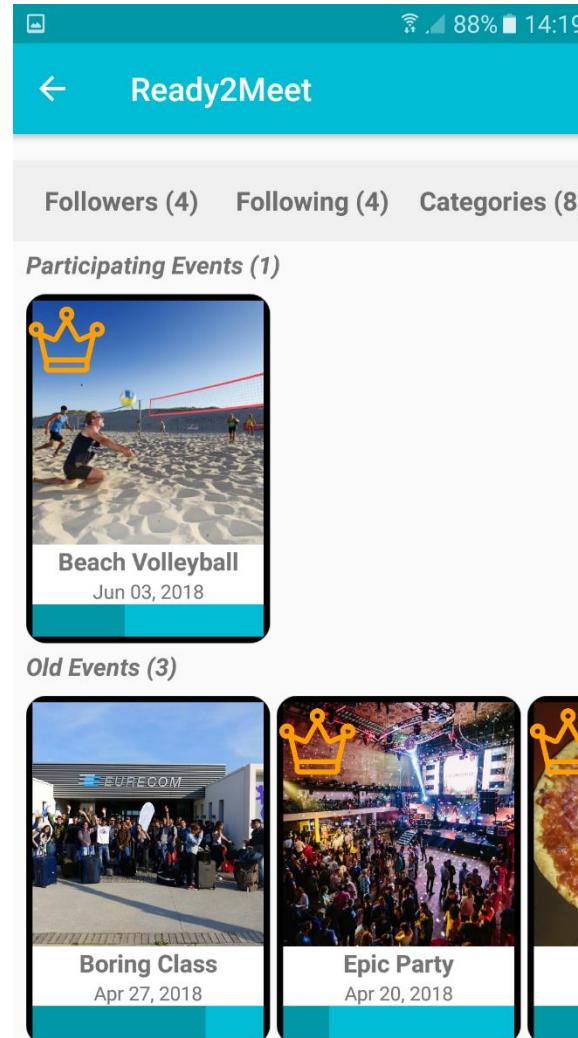


Event Chat Room

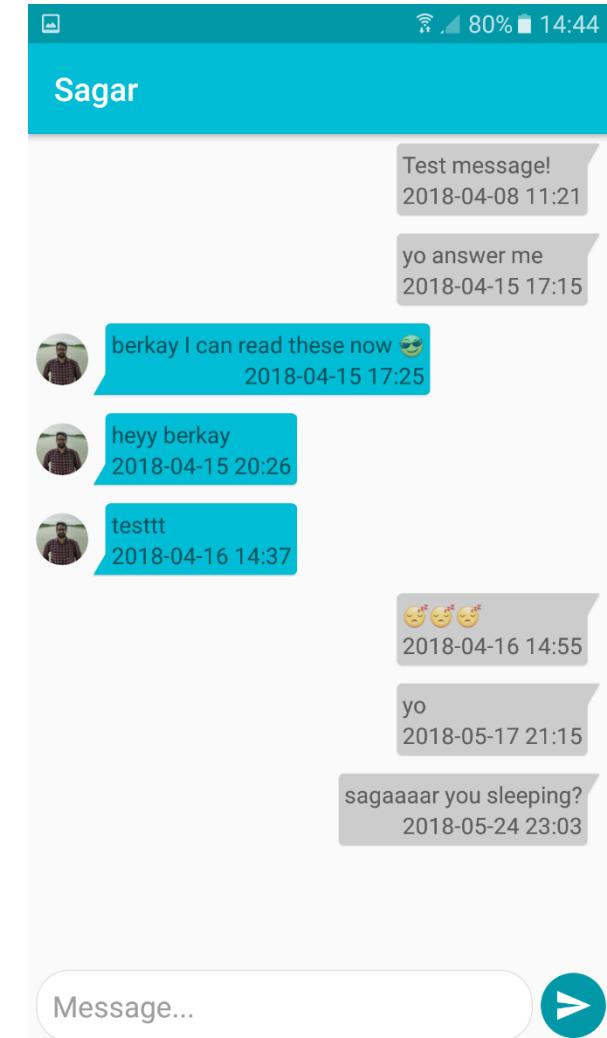
# UI Design and Click Stream



User Profile 1

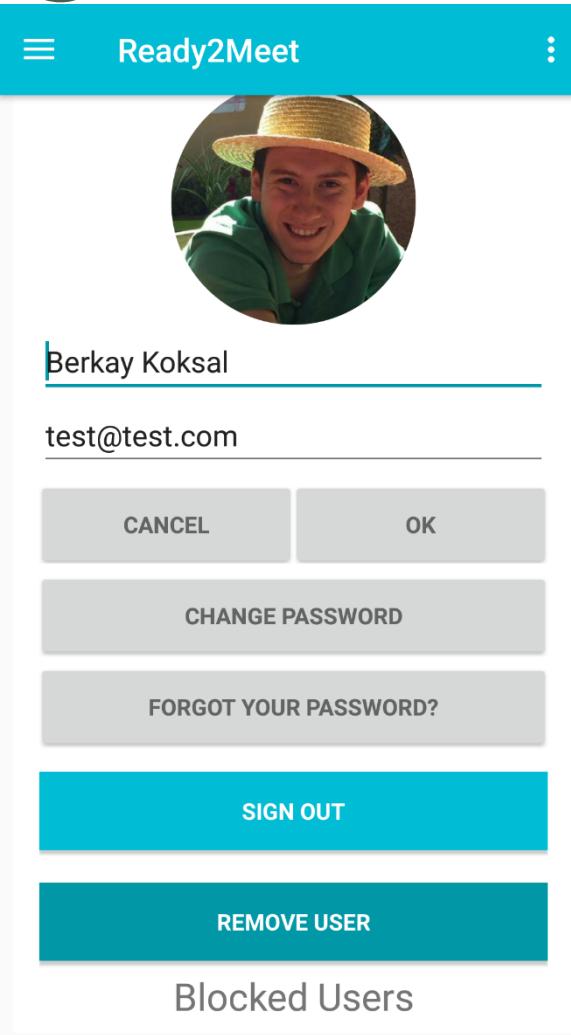


User Profile 2

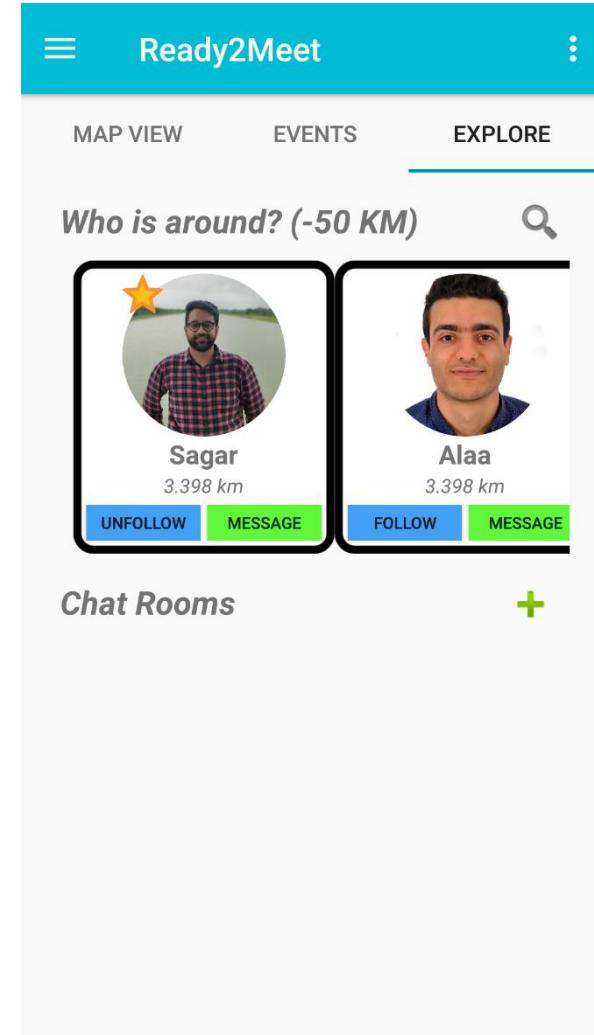


User Chat Screen

# UI Design and Click Stream



Account Options



Explore View

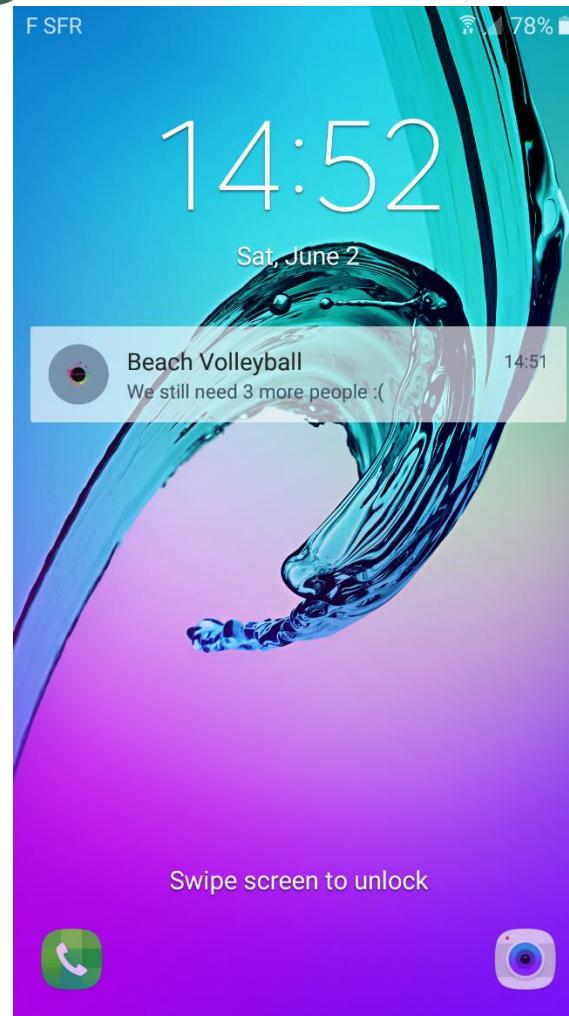
# UI Design and Click Stream

Use this place?

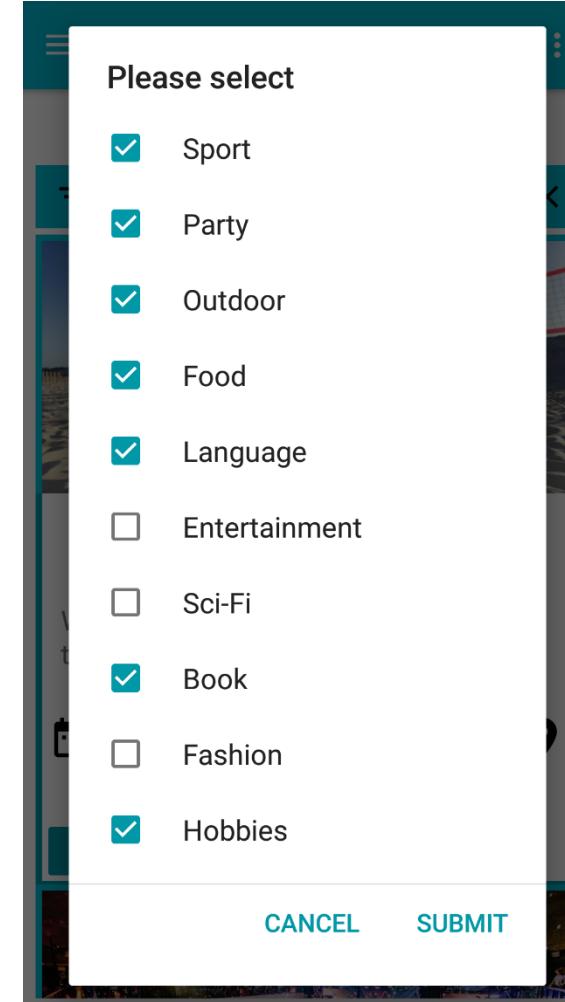
EURECOM  
Campus SophiaTech, 450 Route des...



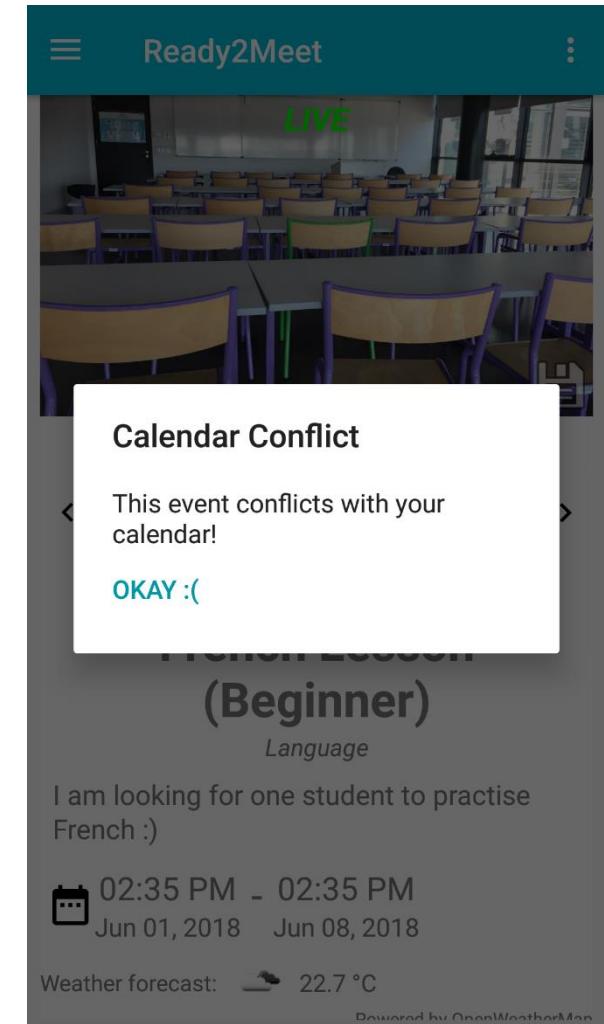
Place Picker



Chat Notifications



Categories

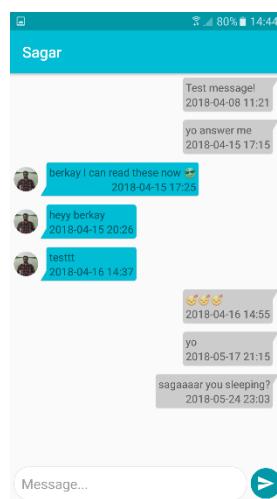
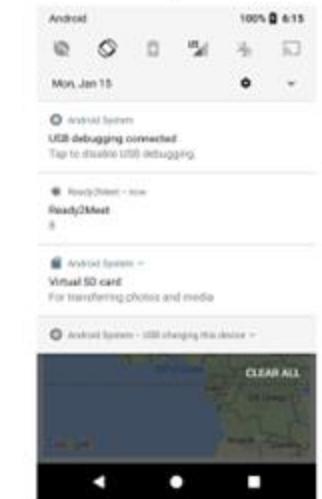
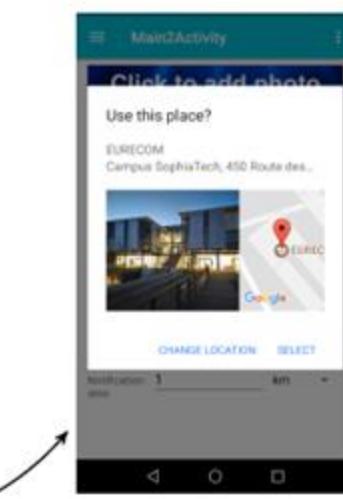
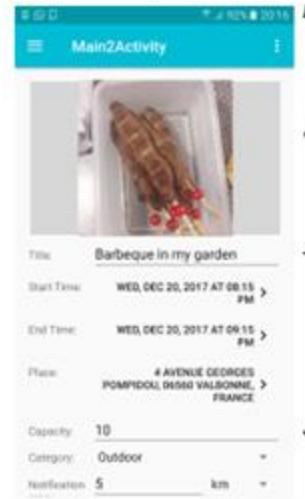
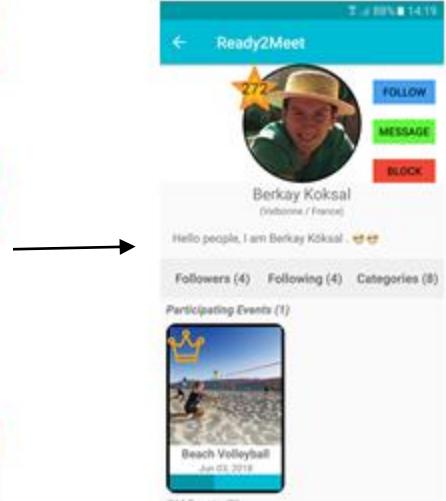
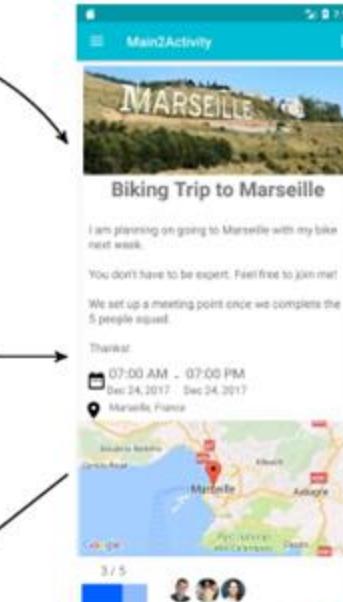


Calendar Access

Only once



swipe



# SW Architecture – Database

User
+ DisplayName: String
+ ProfilePictureURL: String
+ InterestedCategories: Map<String, Boolean>
+ Description: String
+ LastKnownLatitude: Double
+ LastKnownLongitude: Double
+ Followers: Map<String, Boolean>
+ Following: Map<String, Boolean>
+ BlockedUsers: Map<String, Boolean>
+ ParticipatingEvents: Map<String, Boolean>
+ InvitedEvents: Map<String, Boolean>
+ OldEvents: Map<String, Boolean>
+ PremiumTill: String

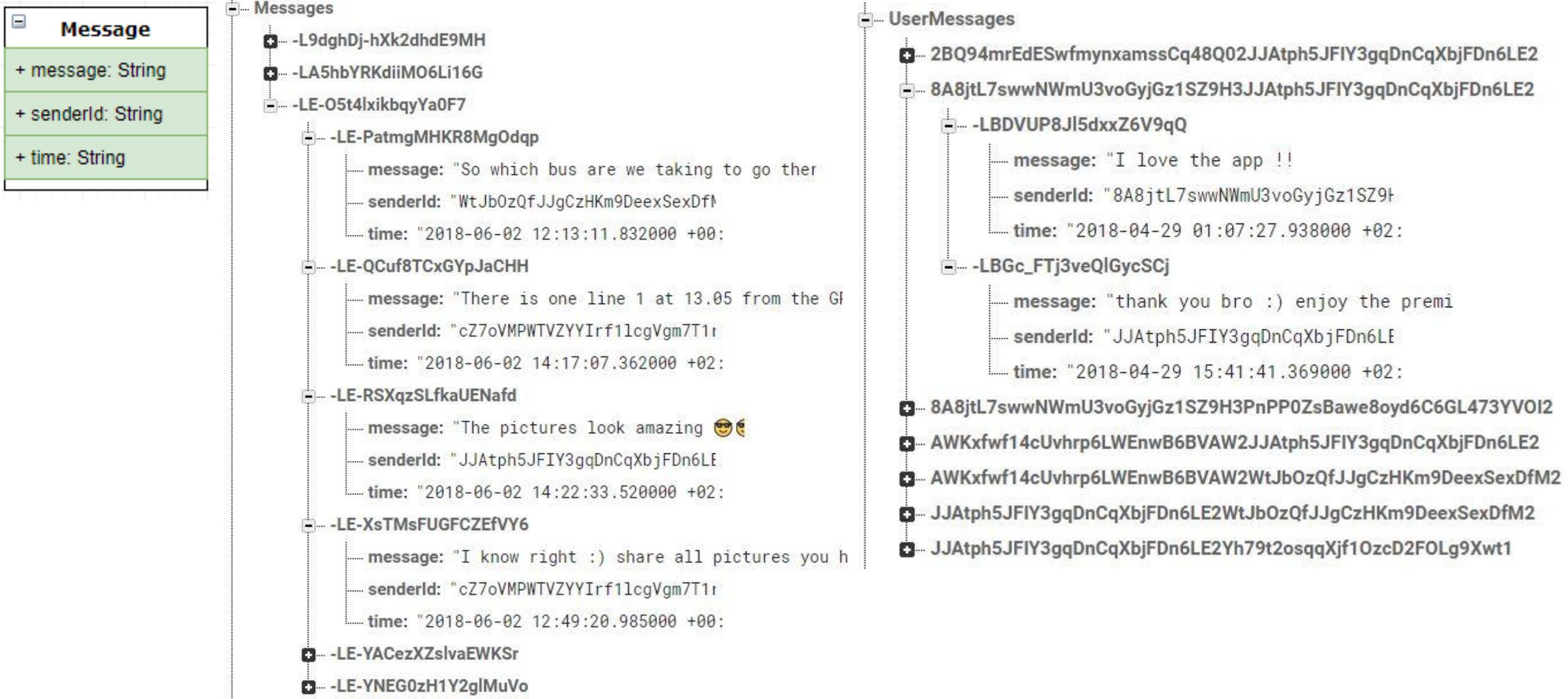


# SW Architecture – Database

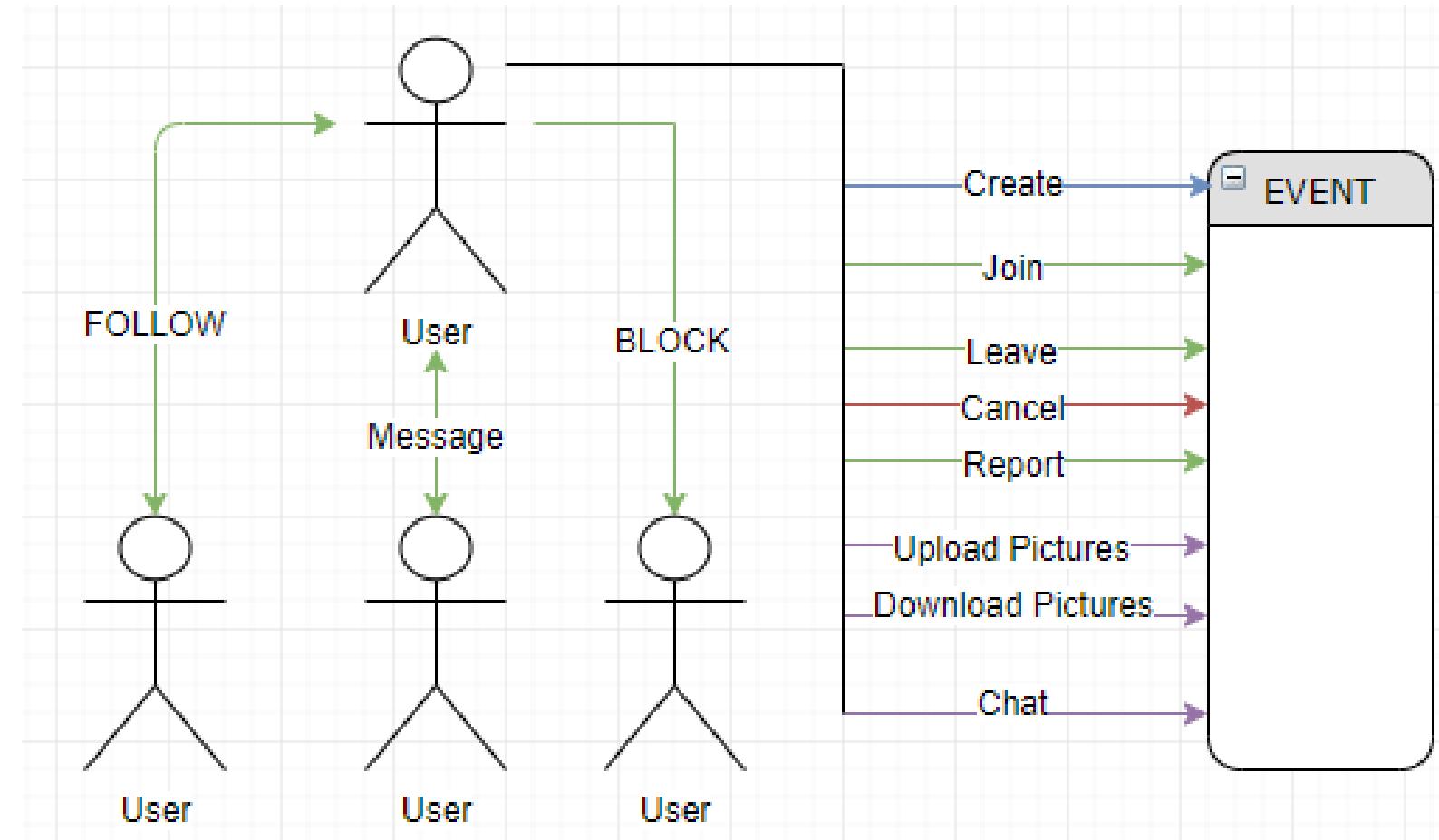
Event	
+ ID:	String
+ Title:	String
+ Description:	String
+ Owner:	String
+ Categories:	Map<String, Boolean>
+ Picture:	String
+ Place:	String
+ Longitude:	Double
+ Latitude:	Double
+ startTime:	String
+ endTime:	String
+ notificationArea:	Long
+ eventCapacity:	Long
+ eventCurrent:	Long
+ images:	Map<String, Boolean>
+ Participants:	Map<String, Boolean>
+ WhoReported:	Map<String, Boolean>

Events	
-L9dghDj-hXk2dhdE9MH	
Participants	
2BQ94mrEdESwfmynxamssCq48Q02: true	
JJAtph5JFIY3gqDnCqXbjFDn6LE2: true	
WtJbOzQfJJgCzHKm9DeexSexDfM2: true	
capacity: 5	
categories	
Food: true	
current: 3	
description: "Bring your plates	
endTime: "2017-04-19 at 11:18 P	
images	
-L9dkUzhhxoyu3pmneSm: "https://firbasestorage.goog	
startPhoto: "https://firbasestorage.googleapis.com/v0/b/re	
latitude: 43.6240474999999	
longitude: 7.05076953125002	
notificationArea: 100€	
owner: "JJAtph5JFIY3gqDnCqXbjFDn6LE	
picture: "https://firbasestorage.googleapis.com/v0/b/re	
place: "1 Avenue Georges Pompidou, 06560 Valbonne, Fra	
startTime: "2017-04-19 at 11:18 A	
title: "Pizza Party	
-LA5hbYRKdiiMO6Li16G	
-LE-05t4lxikbqyYa0F7	

# SW Architecture – Database

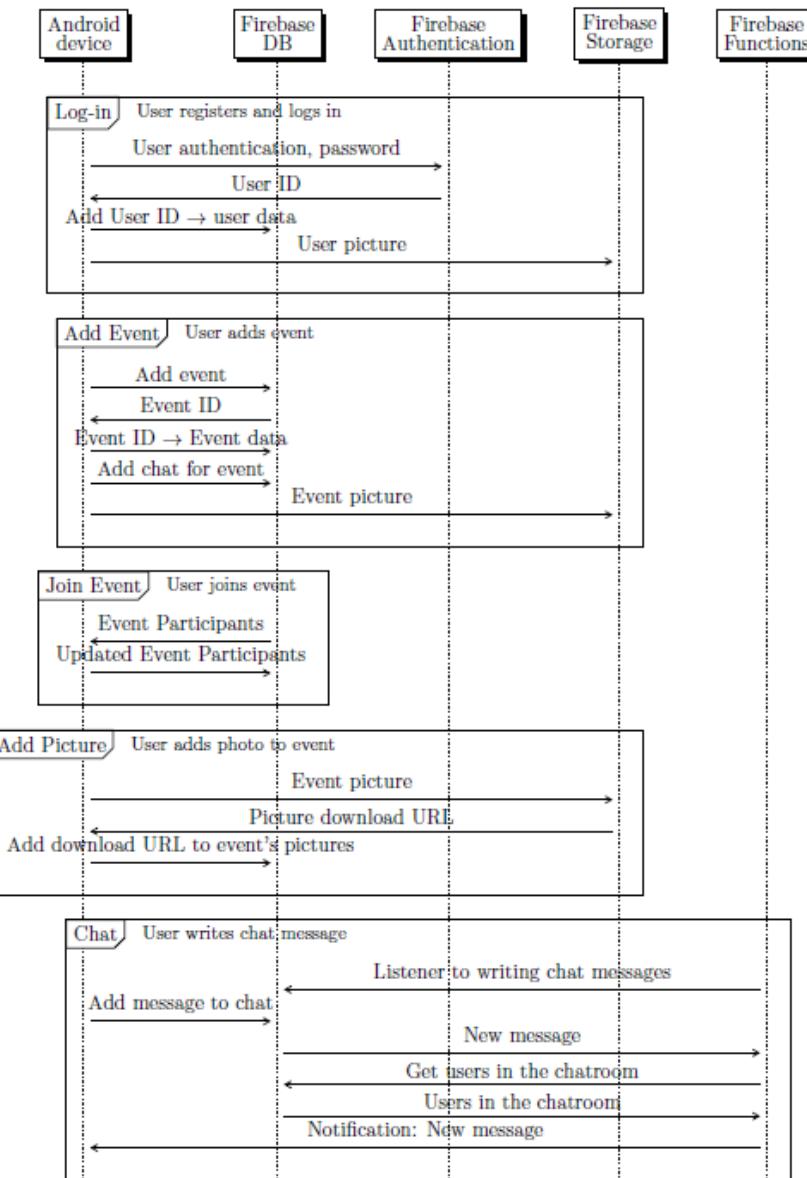


# SW Architecture – Database



# Firebase Services

- Firebase Authentication
- Firebase RealTime Database
- Firebase Storage
- Firebase Cloud Functions
- Firebase Crashlytics



# Firebase Authentication

Sign-in providers	
Provider	Status
Email/Password	Enabled
Phone	Disabled
Google	Disabled
Play Games	Disabled
Facebook	Enabled
Twitter	Disabled
Github	Disabled
Anonymous	Disabled

Identifier	Providers	Created	Signed In	User UID ↑
emu@emu.com	✉	Apr 28, 2018	Apr 28, 2018	2BQ94mrEdESwfmynxamssCq48...
test3@test3.com	✉	Apr 29, 2018	Apr 29, 2018	8A8jtL7swvNWmU3voGyjGz1SZ9...
rekalde@gmail.com	✉	Apr 14, 2018	Apr 14, 2018	AWKxwf14cUvhrp6LWEnwB6BVA...
test@test.com	✉	Apr 9, 2018	Jun 3, 2018	JJAtpb5JF1Y3gqDnCqXbjFDn6LE2
block@block.com	✉	Apr 29, 2018	Apr 29, 2018	PnPP0ZsBawe8oyd6C6GL473YV0...
test2@test2.com	✉	Apr 9, 2018	Jun 2, 2018	WtJbOzQfJJgCzHKm9DeexSexDf...
ala@ala.com	✉	Apr 15, 2018	May 28, 2018	Yh79t2osqqXjf1OzcD2FOLg9Xwt1
clara@clara.com	✉	Jun 2, 2018	Jun 2, 2018	cZ7oVMPWTVZYlrf1lcgVgm7T1r1

# Firebase Authentication

Email ②

Email address verification

**Password reset**

When a user forgets their password, a password reset email is sent to help them set up a new one.  
[Learn more](#)

Sender name  
not provided

From  
noreply@ready2meet-e0286.firebaseio.com

Reply to  
not provided

Subject  
Reset your password for project-385430695443

Message

Hello,

Follow this link to reset your project-385430695443 password for your %EMAIL% account.

[https://ready2meet-e0286.firebaseio.com/\\_auth/action?mode=<action>&oobCode=<code>](https://ready2meet-e0286.firebaseio.com/_auth/action?mode=<action>&oobCode=<code>)

If you didn't ask to reset your password, you can ignore this email.

Thanks,

Your project-385430695443 team

Template language  
English

- Email Address verification
- SMS verification
- Two Factor Authentication
- Password reset by mail
- Email address change

# Firebase Cloud Functions

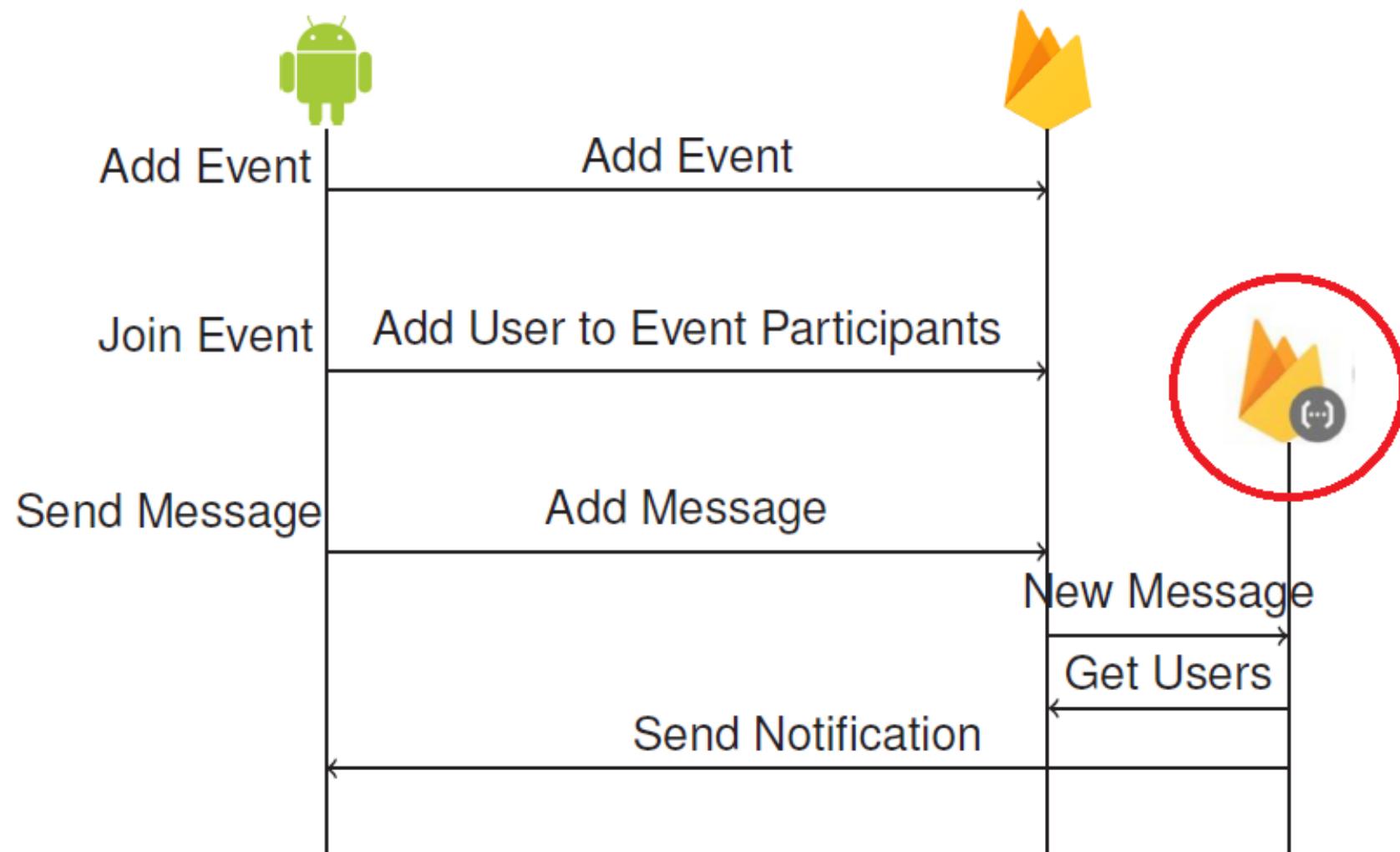
The screenshot shows the Google Cloud Platform Cloud Functions interface. At the top, it says "Google Cloud Platform" and "Ready2Meet". Below that, it shows "Cloud Functions" and "Function details" for "sendMessageNotification". It indicates "Memory allocated: 256 MB". Under "Trigger", there is a dropdown menu. In "Source code", the "Inline editor" is selected. Below it, there are options for ".DS\_Store", ".runtimeconfig.json", "index.js" (which is selected), and "package-lock.json". There is also a "package.json" file. The "index.js" code is displayed:

```
1 'use strict';
2
3 const functions = require('firebase-functions');
4 const admin = require('firebase-admin');
5 admin.initializeApp(functions.config().firebase);
6
7 /**
8 * Triggers when a new message is sent to an event chat and send
9 * a notification
10 * Messages add a flag to `/Messages/{eventId}`.
11 * Users save their device notification tokens to `/Messages/{event
12 */
13 exports.sendMessageNotification = functions.database.ref('/Messa
14   const eventId = event.params.eventId;
15   const messageId = event.params.messageId;
16   var message;
17   admin.database().ref('/Messages/${eventId}/${messageId}/messag
18   function(snapshot) {
19     message = snapshot.val();
20     console.log(`We have a new message for event: ${eventId}, ${mess
21   }, function(errorObject) {
22     console.log(`Reading the message failed: ${errorObject.message}`);
23   });
24   var eventTitle;
25   admin.database().ref('/Events/${eventId}/title').on("value",
```

At the bottom, there is a "Function to execute" dropdown set to "sendMessageNotification". A "More" link is at the very bottom.

- Cloud functions are used to set database triggers that listen changes on database, and take action to some certain changes.
- These actions can be fired by the server and captured by devices to perform operations.

# Firebase Cloud Functions



# Firebase Storage

Profile Pictures are kept under **Storage/ProfilePictures/USERID.jpeg**

<input type="checkbox"/>	Name	Size	Type	Last modified
<input type="checkbox"/>	 2BQ94mrEdESwfmxnamssC...	15.9...	image/jpeg	Apr 28, 20...
<input type="checkbox"/>	 8A8jtL7swwNWmU3voGyjGz1...	31.4...	image/jpeg	Apr 29, 20...
<input type="checkbox"/>	 AWKxfwf14cUvhrrp6LWEnwB6...	47.3...	image/jpeg	Apr 14, 20...
<input type="checkbox"/>	 cZ7oVMPWTVZYlrf1lcgVgm...	59.2...	image/jpeg	Jun 2, 2018
<input type="checkbox"/>	 JJAtph5JF1Y3gqDnCqXbjFDn6...	28.5...	image/jpeg	Apr 15, 20...
<input type="checkbox"/>	 PnPPOzsBawe8oyd6C6GL473...	20.9...	image/jpeg	Apr 29, 20...
<input type="checkbox"/>	 WtJbOzQfJJgCzHKm9DeexSe...	97.3...	image/jpeg	Apr 15, 20...
<input type="checkbox"/>	 Yh79t2osqqXjf1OzcD2FOLg9X...	164...	image/jpeg	Apr 15, 20...

**JJAtph5JF1Y3gqDnCqXbjFDn6LE2**



Name  
JJAtph5JF1Y3gqDnCqXbjFDn6LE2

Size  
29,229 bytes

Type  
image/jpeg

Created  
Apr 15, 2018, 8:42:10 PM

Updated  
Apr 15, 2018, 8:42:10 PM

# Firebase Storage

Event Pictures are kept under **Storage/EventPhotos/EventID/\*.jpeg**

<input type="checkbox"/>	Name	Size	Type	Last modified
<input type="checkbox"/>	-L9dghDj-hXk2dhdE9MH/	—	Folder	—
<input type="checkbox"/>	-LA4Qbo5lNiEnJNWDbnx/	—		
<input type="checkbox"/>	-LA5hbYRKdiiMO6Li16G/	—		
<input type="checkbox"/>	-LD_xEaxx40C-UR96ZTV/	—		
<input type="checkbox"/>	-LDa6Z7YNDwclctCao92/	—		
<input type="checkbox"/>	-LDa7del50N7DKpZL11K/	—		
<input type="checkbox"/>	-LDa7WnSi37fNdfYJLOG/	—		
<input type="checkbox"/>	-LDa8N3mNPNSiZvHrV38/	—		
<input type="checkbox"/>	-LE-05t4lxikbqyYa0F7/	—		
<input type="checkbox"/>	-LE-UigoHtEnN4B5xMec/	—		
<input type="checkbox"/>	Default.jpg	33.39 KB		

**UPLOAD FILE** + ⋮

A large black arrow points from the URL of the -LE-05t4lxikbqyYa0F7/ folder in the main list to the URL of the same folder in the detailed view.

gs://ready2meet-e0286.appspot.com > EventPhotos

**UPLOAD FILE** + ⋮

<input type="checkbox"/>	Name	Size	Type	Last modified
<input type="checkbox"/>	20070	32.6...	image/jpeg	Jun 2, 2018
<input type="checkbox"/>	20071	267....	image/png	Jun 2, 2018
<input type="checkbox"/>	20073	35.1...	image/jpeg	Jun 2, 2018
<input type="checkbox"/>	startPhoto	284....	image/jpeg	Jun 2, 2018

**UPLOAD FILE** + ⋮

**20070** X



Name  
20070

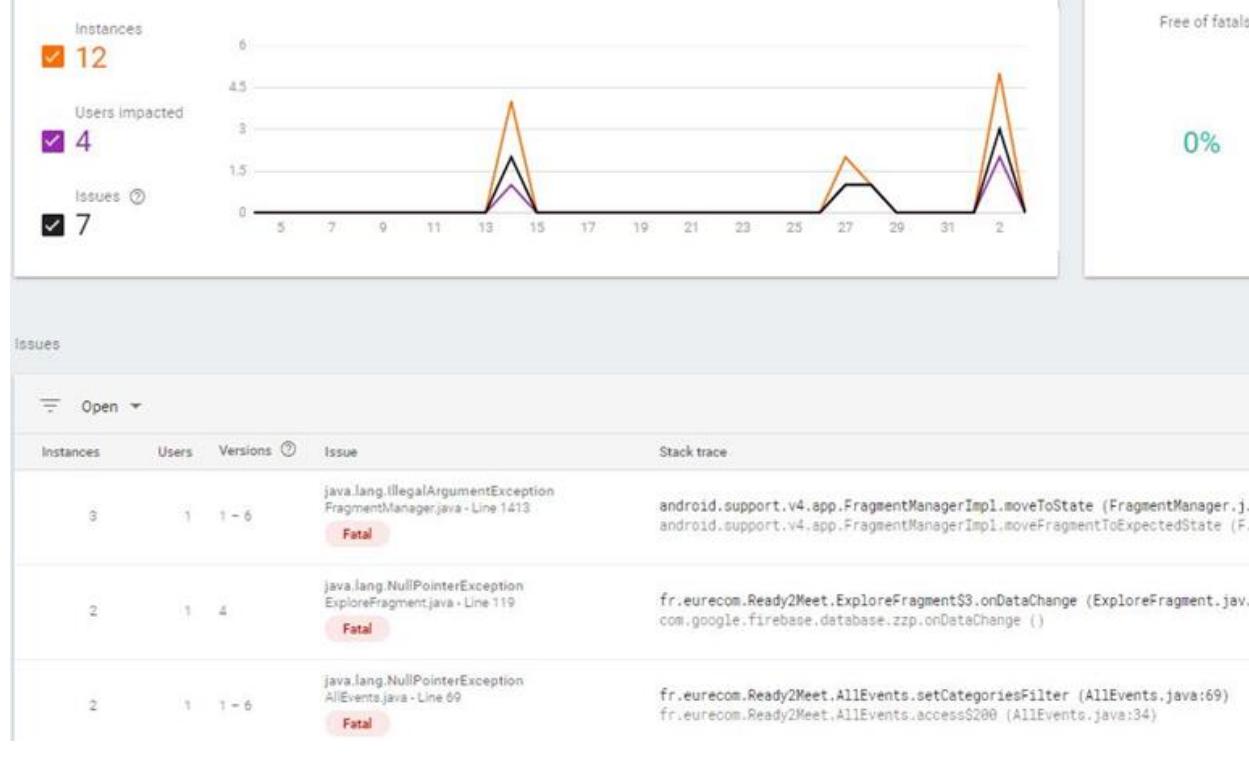
Size  
33,418 bytes

Type  
image/jpeg

Created  
Jun 2, 2018, 2:19:30 PM

Updated  
Jun 2, 2018, 2:19:30 PM

# Firebase Crashlytics

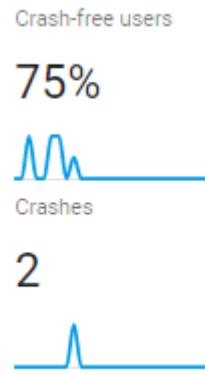


## Data

User
Country Code: 310
Carrier Code: 260
Carrier: Android
Locale: en-US

Performance
VM free: 1.01MB
VM total: 32.11MB
VM max: 384MB
Battery level: 100%
Charging state: Charging AC
Connection State: Wifi

Device
Manufacturer: Google
Model: Android SDK built for x86
Board: Unknown
Android API: 25
Android OS: 7.1.1
Brand: Google
RAM: 1.48GB
Orientation: Portrait
Proximity to user: -



- Complete crash report
  - Complete console log
  - Line of code from apk
  - App version
- Device Info
  - Model
  - SDK
  - Capacity
- Device performance
  - Ram
  - VRAM
  - Battery
  - Connection type

# GooglePlay vs Firebase Crashlytics

The image displays three separate screenshots from the Google Play store interface, each showing a different review and its associated device and app information.

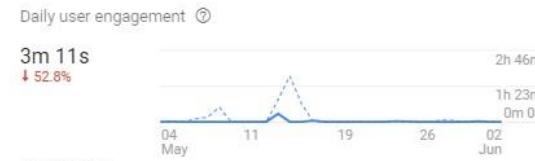
- Screenshot 1:** A review by "Arya" dated Jan 16, 2017, at 7:18 PM. The review text is "I love it".
  - Device: Venus V3 5020 (Arya)
  - App version: 2 (1.1)
  - OS: Android 5.1
  - MORE
- Screenshot 2:** A review by "integram HD" dated Jan 12, 2017, at 5:37 PM. The review text is "Winter is coming".
  - Device: Galaxy A5(2016) (a5xelte)
  - App version: 1 (1.0)
  - OS: Android 6.0
  - MORE
- Screenshot 3:** A review by "Burak Hayirci" dated Jan 12, 2017, at 3:17 PM. The review text is "Nice Communication on the beautiful".
  - Device: LG G4 (p1)
  - App version: 1 (1.0)
  - OS: Android 6.0
  - MORE

APPLICATION	
Version code: 1	Version name: 1.0
DEVICE	
Device: LG G4 (p1)	CPU make: Qualcomm
Manufacturer: LGE	CPU model: MSM8992
Device type: Phone	Native platform: armeabi-v7a, armeabi, OpenGL ES version: 3.1
Device language: English	arm64-v8a
	OS: Android 6.0
	RAM (MB): 3072

- User Review
- App version
- Device Info
  - Model
  - SDK
  - Capacity

**THAT IS ALL?**

# Firebase Statistics



Top screens

Screen class	% total	Avg. time
Main2Activity	66.94% <span style="color: green;">↑ 5.7%</span>	0m 47s <span style="color: green;">↑ 111.7%</span>
profilepageActivity	9.59% -	0m 18s -
ChatActivity	7.21% -	0m 56s -
LoginActivity	5.77% <span style="color: green;">↑ 4.3%</span>	0m 19s <span style="color: green;">↑ 89.7%</span>
AddEventActivity	4.24% <span style="color: red;">↓ 84.4%</span>	0m 17s <span style="color: red;">↓ 27.5%</span>
MessagesActivity	2.9% -	0m 43s -
SignupActivity	2.51% <span style="color: red;">↓ 35.9%</span>	0m 10s <span style="color: red;">↓ 26.6%</span>
ChatActivity2	0.6% -	0m 9s -

## Event demographics ⑦

### Gender

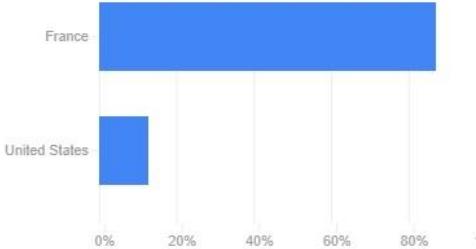


Detailed monitoring over users.

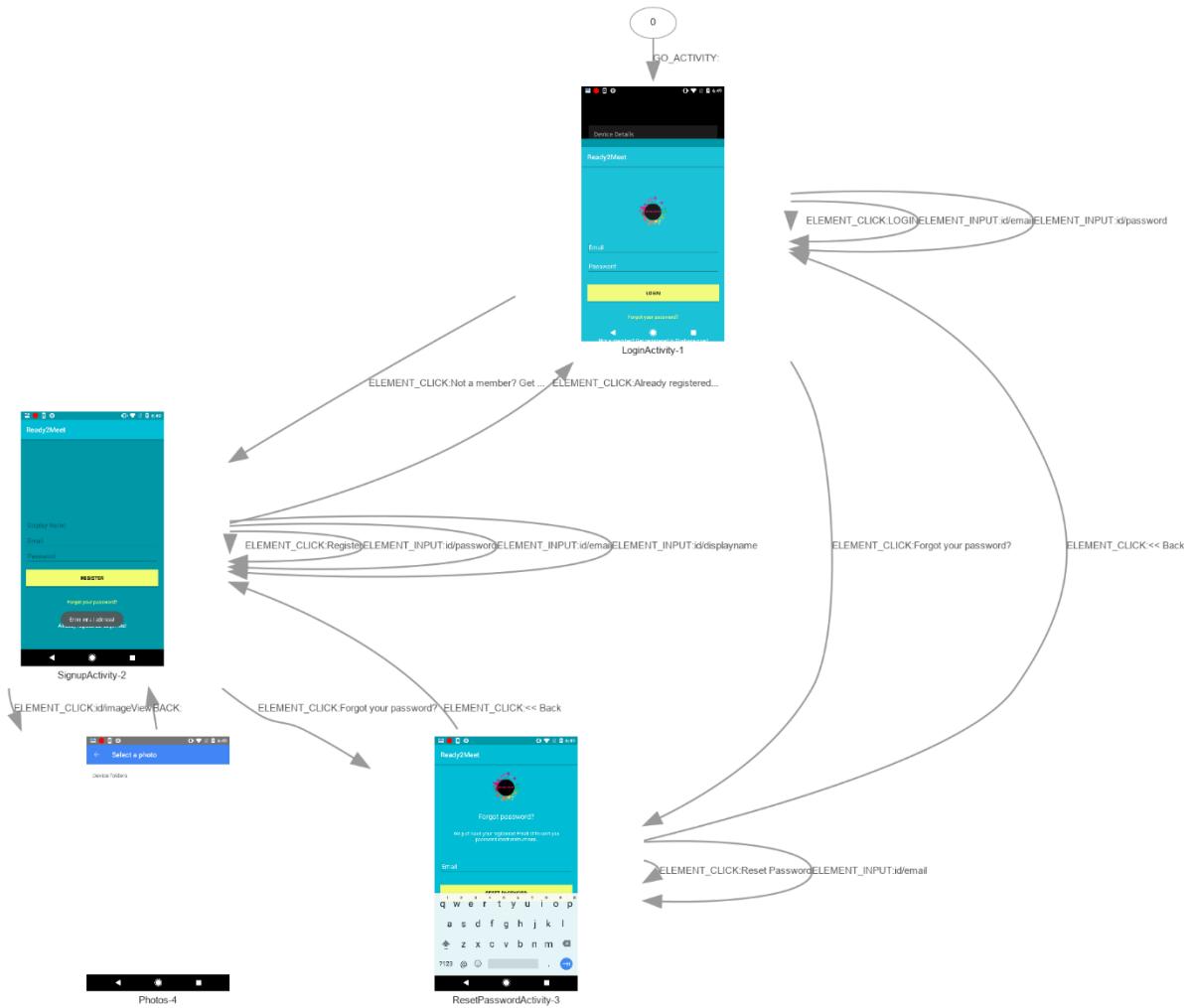
- Activity over time
- Activity in the application
- Clicks per session
- Location analysis
- Gender analysis
- Interest analysis



### Country/Region



# Firebase Test Lab



03 Jun 2018 13:50:21 UTC

Matrix #862094

APP NAME

Ready2Meet

1 passed

# In-App Purchases

Name & ID	Price	Last updated
<b>1 Month Premium (1monthpremium)</b>	EUR 1.00 - 1 Month Premium	Apr 28, 2018

## Local prices

Country	Price ⓘ	Tax
Algeria	DZD 150.00	
Australia	AUD 1.79	10% (AUD 0.16)
Austria	EUR 1.19	20% (EUR 0.20)
Bahrain	USD 0.99	
Bangladesh	BDT 100.00	
Belgium	EUR 1.19	21% (EUR 0.21)
Bolivia	BOB 8.49	



**1 Month Premium** €1.19 ▾

Please tap "Continue" to add a payment method or redeem a code to complete your purchase.

[Google Play | G Pay](#) CONTINUE

Denmark: 25%

France: 20%

Taiwan: 5%

United States: 0%

# In-App Purchases

**Order summary**

App name  Ready2Meet	Order date Apr 29 2018 01:01:54 UTC+2	Location 0810, AU	
Total (AUD) ⓘ <b>A\$0.00</b>	Estimated net revenue ⓘ <b>A\$0.00</b>	Order type <b>In App Product</b>	Order status <b>Refunded</b>

**REFUND**

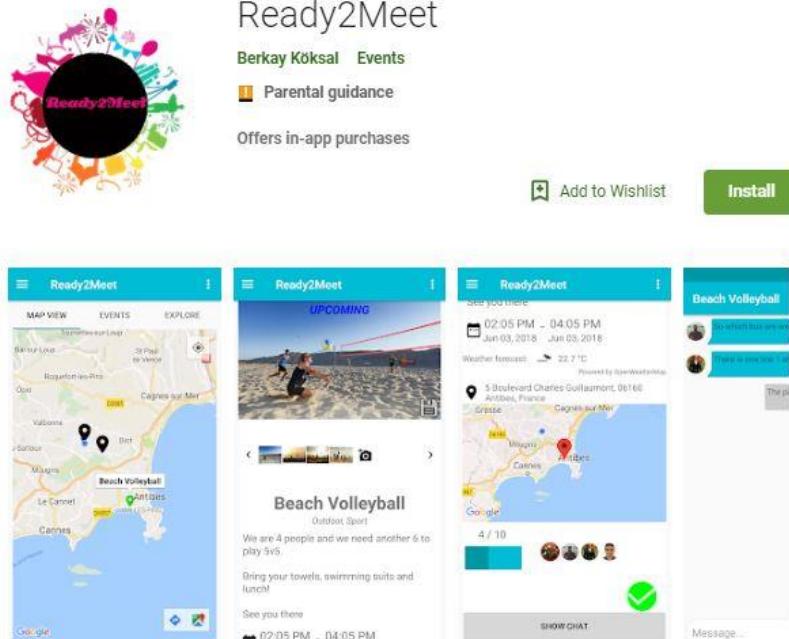
**Order items**

Name	SKU	Description	Listed price ⓘ
1 Month Premium (Ready2Meet)	1monthpremium	Adds awesome 30 days to your premium days.	A\$1.79 Including tax of A\$0.16

**Order history**

Date	Status	Description
Apr 29 2018 01:01:54 UTC+2	 Payment pending	You received a new order.
Apr 29 2018 01:01:55 UTC+2	 Chargeable	The customer's form of payment was authorized for A\$1.79 and passed all risk checks. (Expires Saturday, May 5, 2018 4:01:55 PM PDT).
Apr 29 2018 01:04:26 UTC+2	 Refunding	A refund of A\$1.79 was initiated on this order. Reason: User requested.
Apr 29 2018 01:09:27 UTC+2	 Charged	The customer's form of payment was successfully charged for A\$1.79.
Apr 29 2018 01:09:27 UTC+2	 Refunded	Google processed your request and applied a refund of A\$1.79 to this order.

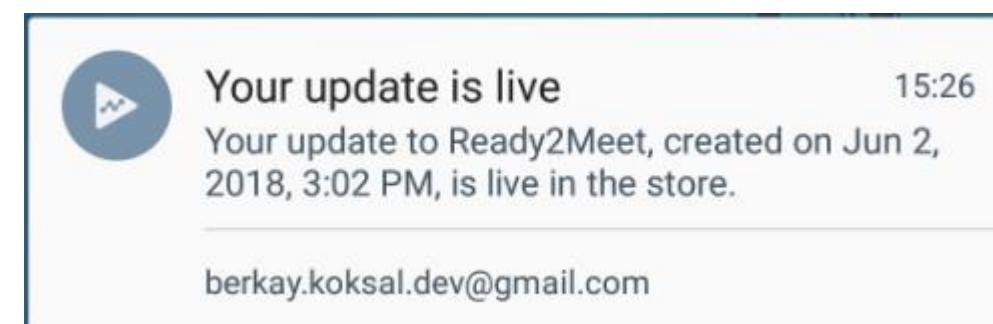
# Google Play Store Presence



Disclaimer: The application is still in the development phase. More features and bug fixing will be done in the future to make it better. Please give us feedback and ask for features you would like to see in the application.

Ready2Meet offers a free platform for people to socialise with others! Important features are designed for you to create your own event and interact with people around you to participate together.

- Create or join an event in one of the categories (Sport, Party, Career, Study, etc.)
- Talk with people who are participating
- Share photos from the event to have a shared gallery for everyone
- See what events are around you
- See people and events around you
- Follow people and see their interests



# Version Management

Production track

Production

Add Android App Bundles or APKs to production to make your app available to all users

Open track

Beta

Add Android App Bundles or APKs to beta to make your app available for open testing.

Closed track

Alpha

Release: 1.7 Yesterday, 3:02 PM: Full rollout. 1 APK, version code: 7

Internal test track

Internal test

Release: 1.1 Apr 29, 8:24 PM: Full rollout. 1 APK, version code: 6

Country Availability

Production countries	Beta countries	Alpha countries
--	--	<b>238</b> + rest of world <small>support with translation</small>
No Production release	No Beta release	

- Production Release
- Beta Release
- Alpha Release
- Internal Test

 Ready2Meet  
Berkay Köksal

Hello,

Berkay Köksal has invited you to a testing program for an unreleased version of the Ready2Meet app. As a tester, you'll receive an update that includes a testing version of the Ready2Meet app, which may also include unreleased versions of its instant app.

Note that testing versions may be unstable.

[BECOME A TESTER](#)

# Technical Details

- Permissions:
  - Internet
  - Location
  - Camera
  - Read and write calendar
  - GooglePay Billing
- Frameworks:
  - Google Firebase
  - Google App Engine
  - Google Map API
  - OpenWeather API
  - UI Tools
    - Glide
    - Picasso
    - CircleImageView
    - RoundCornerProgressBar
    - CustomCheckBox
    - MultiSnapRecyclerView
- Tools:
  - Android Studio v3
  - Github (Private Repo)
  - Genymotion (Emulator)
  - Gradle 3.0.1
- Facts:
  - > 50 commits
  - 32 Java classes, > 5500 LoC
  - 56 xml layout files, > 4500 LoC
  - Node JS for backend, < 100 LoC

# QUESTIONS?



# THANK YOU!

Berkay KÖKSAL