



MobServ Challenge Project 2017

Ready2Meet: Event Organizer for Android

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1 Application Description

The event organizer (name Ready2Meet) is an Android app to facilitate creating events and inviting people. The core of the application, namely organizing an event, can be used in two different modes:

1. Planned event
2. Spontaneous event

For both modes, the user creates an event (including a start and end time, location, type of event and eventually a name). In the planned event mode, the user can invite specific people (friends) while for the spontaneous event, it is also possible to send an invitation to people which are close to the user's current location. Like this, he is able to spontaneously gather people based on their location.

Apart from this, all people joining an event should be able to share pictures of the event in the app and influence the event's outcome e.g. by voting for music on a party. Also, a chatroom should be available to communicate with the people before or after the event.

For all kinds of events, the organizing person can add a list of required material (e.g. drinks or food) so that the guests can register to bring some of the material and thus easing the organization.

Finally, every user invited to an event is provided additional information like the weather forecast for outdoor events and whether he is available on the date when the event is scheduled.

2 Features

The features of our event organization app include

- Create an event (e.g. party, sports, hiking, lunch, ...)
 - Invite friends
 - Invite people in a close area. I.e., the user can specify a radius to invite people and the people are notified if they are interested in this kind of events
- Chatroom for event
- Enable music organization/voting during the event
- Share pictures of the event
- Who brings what?
- Get some additional information for the event
 - Weather forecast for outdoor events
 - Check if timeslot is free in your calendar
- Share the event in other networks e.g. on facebook

We therefore plan to use Google API (maps), firebase database to provide a real time database, and OpenWeatherMap API to retrieve the weather forecast.

3 Developer Team

The team consists of three people:

- Saad Lamdouar: UI developer
- Berkay Köksal: Core developer
- Alexander KÜchler: Core developer

4 Business Model

Different business models are possible to push the app on the market. In this section, we discuss potential models and pricing strategies and finally chose the most promising model. Furthermore, we discuss a marketing strategy for our application.

4.1 Monetization

A completely free (e.g. open source) app is the first possibility. While this potentially targets the highest number of users as the app is free to use and accessible also in alternative stores like F-Droid, the application would not lead to any profit.

A second option is to use advertisements in the app in order to gain from the application. While this leads to a higher income, it contradicts the open-source strategy and thus would probably lead to a smaller target group. However, as the vast majority of Android users install apps from the Google Play Store, the decrease of users is acceptable.

Together with the app using advertisement, it is possible to offer an for a small price and without ads. An app which has only a priced version does not appear to be promising to us as most users will not be willing to pay for the service.

Also, In-App sales would be possible e.g. to enhance the possibilities of a user when creating events. In especial, this makes sense for business customers that could use the application to advertise their business. A possible scenario is creating events in the application which reflects the companies product portfolio (e.g. guided tours, sports, parties in a bar, ...). Like this, the company can acquire new customers which are nearby e.g. during their holidays and thus our app presents a new marketing strategy. In the scenario of commercial users, it would be possible to earn a reward for every user which joins the respective event due to our platform. The reward could be negotiated as a percentage of the tickets for the event or as a fixed amount. However, both cases would require to include a ticket-selling system for the billing. This would be a possible extension of the app.

In our case, the most promising strategy is to offer a free app with advertisements as well as a paid version without ads. In-App sales which target commercial customers

of the app can make the app more powerful. E.g. an event could be permanent or the radius to invite people could be extended. Also, the creators of an event could have additional possibilities.

4.2 Marketing Strategy

As our app aims at making events available to the highest possible number of potential participants, organizing events is the main possibility to advertise the app.

First, it is possible to offer free events to users which are organized by us. Second, we could offer discounts to our users for paid events which are organized by a third party. This is beneficial for both, the organizing party as they get additional participants and us, as we can make our app attractive for many users and thus gain a high number of users.

Both techniques aim at attracting as many users as possible. Even if we have some expenses for the events and eventually for offering the discounts, this can decline once we have sufficient customers.

4.3 Competitors

In this section, we shortly present a couple of competitors. Please note that the list is not complete and only presents a rough overview of the market.

Fever generates an event list taking into account the user's interests. However, it is only available in a few big cities and does not offer many events. Also, the focus is on commercial events while we aim at providing a platform to offer any kind of events, in especial, "private" and free ones.

WeTorch is a free app that provides a selection of events which are close to the user's location. It only exists in spanish and the focus lies on cultural events as well as arts.

Event Manager and Event Manager by Billeto give overviews of the event for event managers and help event organizers to grow their event reach and manage it.

While offering a platform is not the main focus, Facebook provides the functionality to invite friends to events or make them publicly available. In especial due to the large user community, it is an important competitor on the market.

5 Implementation

In this section, we discuss technical details of our implementation.

5.1 Database

To store our data (events, messages, users) and make them available to all users, we heavily make use of the features of Firebase¹ database. Firebase provides a real-time database and is therefore ideally suitable to make changes on data available to multiple

¹<https://firebase.google.com/>

users in real time. Apart from that, it can easily be integrated into Android apps (as well as iOS and web applications).

We need to store 3 different types of data structures namely user accounts, chat messages and events. For each of the structures, one java class defines the data fields which are stored. Class diagrams of the classes are shown in Figure 1.

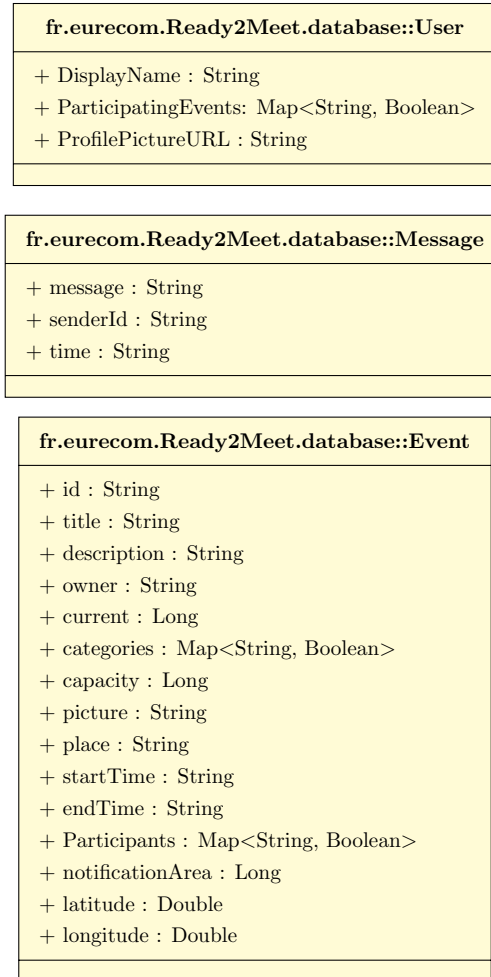


Figure 1: UML class diagrams of the database classes

5.2 Application Components

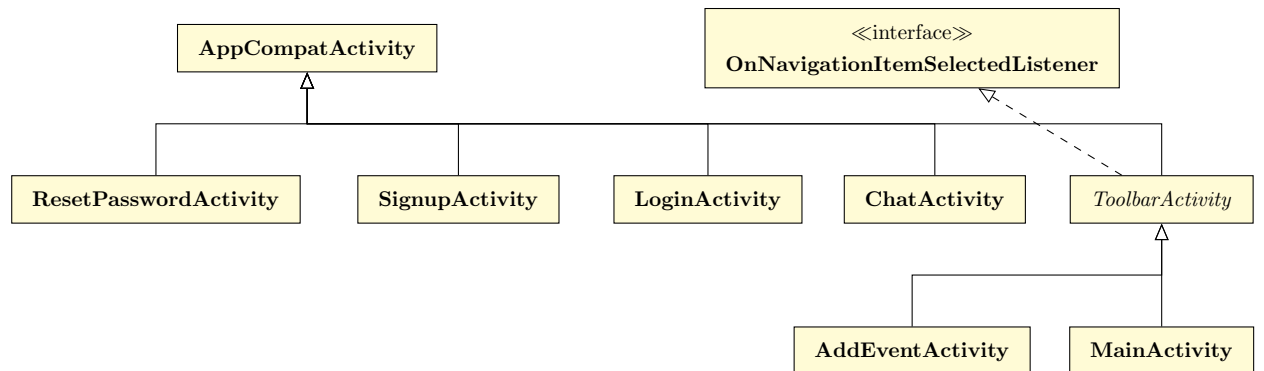


Figure 2: UML class hierarchy Activities

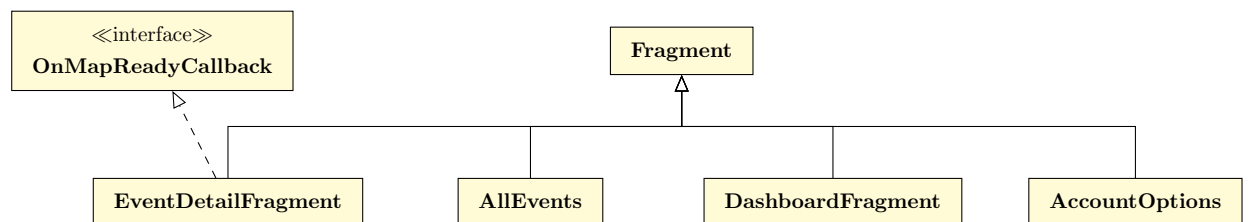


Figure 3: UML class hierarchy Fragments

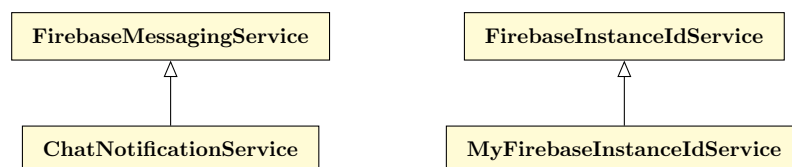


Figure 4: UML class hierarchy Services