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GitHub Username: DanielSinMas

KeepOn

Description

A simple instant messaging application based on Firebase Cloud Messaging and backed by Google App Engine and Google Cloud Computing.

Intended User

The application can be used by everyone, it has a simple design easily usable by any user.
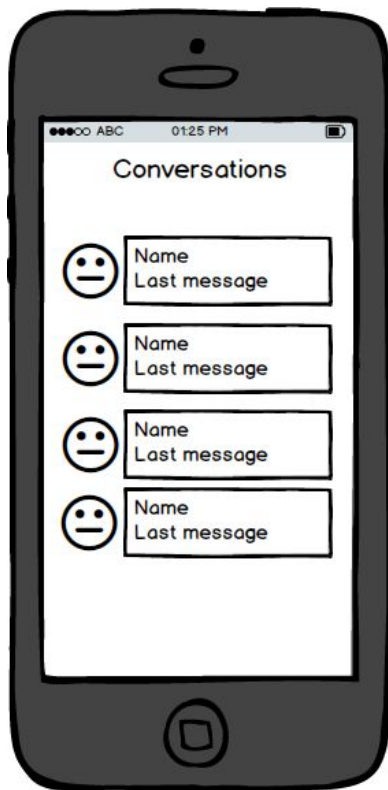
User Interface Mocks

These images were created with Balsamiq and are indicative, the outcome may vary
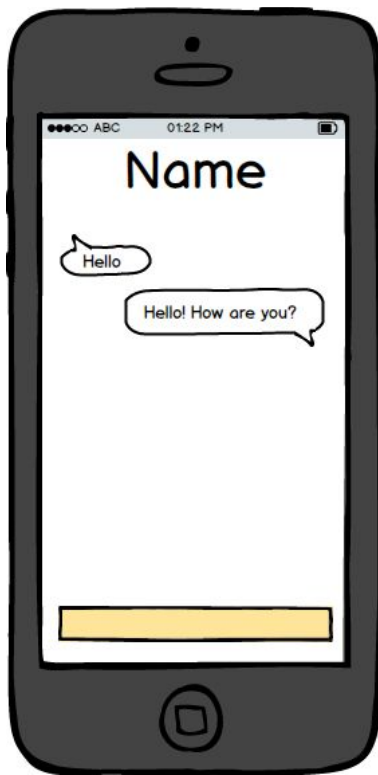
Screen 1

A list of users from my list of contacts who have installed the application and which can start a conversation.

Screen 2

The local list of conversations.

Screen 3

Conversation with a user.

Key Considerations

How will your app handle data persistence?

The data is stored in two ways:
- The phone number of each user and their associated FCM code are stored in Google Cloud Computing.
- Conversations between users are stored locally on each device locally by content providers.

Describe any libraries you'll be using and share your reasoning for including them.

Schematic (https://github.com/SimonVT/schematic) It will be used for a simpler handling of the content provider.
Picasso, It will be used for a simpler handling of the images.

Required Tasks

Task 1: Project Setup

- Configure Google App Engine project (done)
- Configure Google Cloud Computing project (done)
- Configure Android Studio project (done)

Task 2: Implement UI for Each Activity and Fragment

- Build UI for select user and open conversation Activity
- Build UI for conversation list Activity
- Build UI for conversation Activity
- Build UI for login

Task 3: Build select user activity

- Create an ApiMethod in Google App Engine to return the list of users from my list of contacts who have installed the application and which can start a conversation.
- Used it in the select user activity and integrate with UI.

Task 4: Build conversation list activity

- Retrieve the local list of conversations and integrate with UI

Task 5: Build conversation activity

- Create an ApiMethod in Google App Engine to send messages through Firebase Cloud Messaging (done) and use it in the conversation activity.
- Integrate with UI

Task 5: Build login activity

- Create a initial login activity with a very simple login system based on phone number.

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