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Submission Instructions
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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

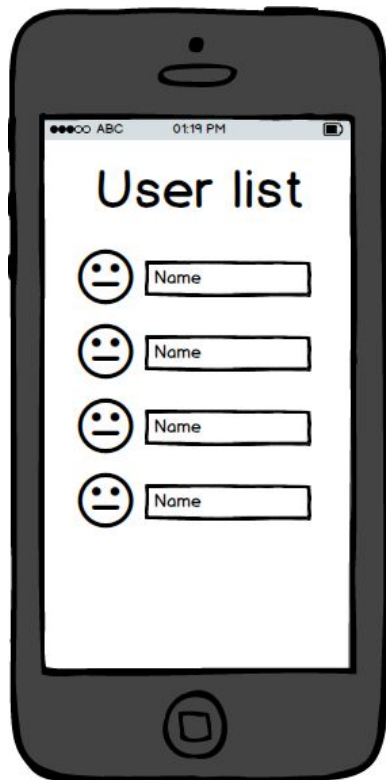The application is intended for anyone who wants to use an instant messaging app

Features

- Instant messaging service
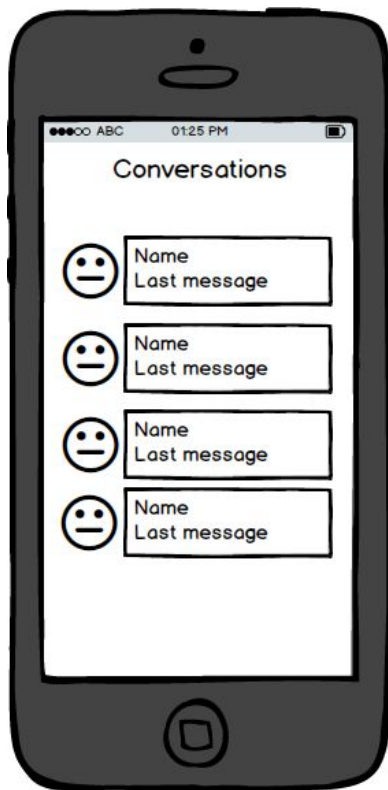- Locally saved conversations

User Interface Mocks

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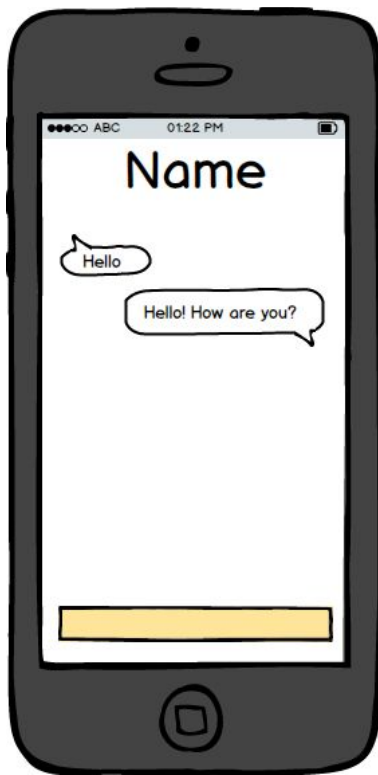
Screen 1

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

Screen 2
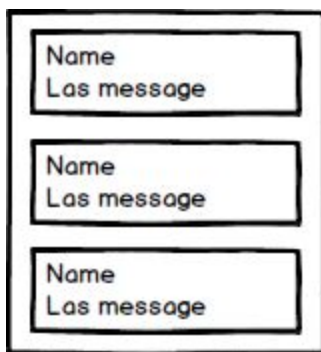

The local list of conversations.

Screen 3

Conversation with a user.

Screen 3

Widget with a list of the latest conversations.

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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