



Chatbot Diary

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Meet Marc



Hi, im Marc





The Idea

Hi Marc, how are you?
How was your day?

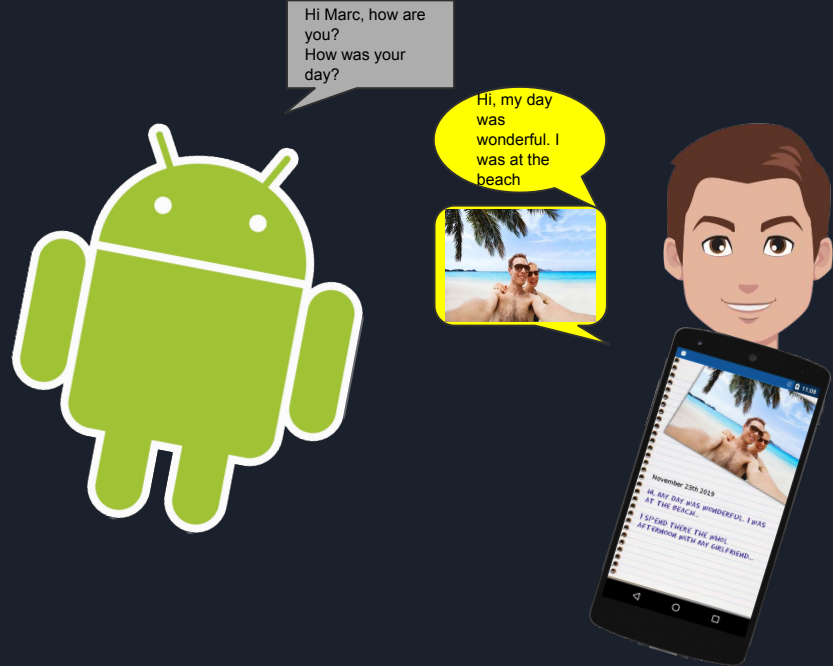
Hi, my day was
wonderful. I was
at the beach





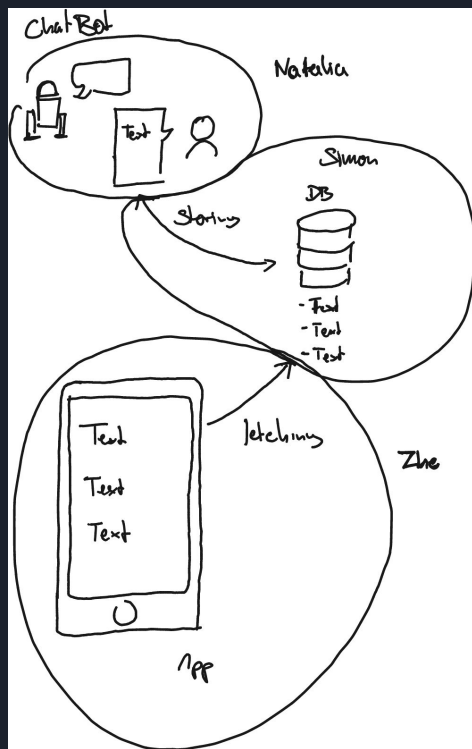
The Application

Our Application realizes an interactive Diary. A chatbot, using Telegram, animates the user to write about his daily experiences.



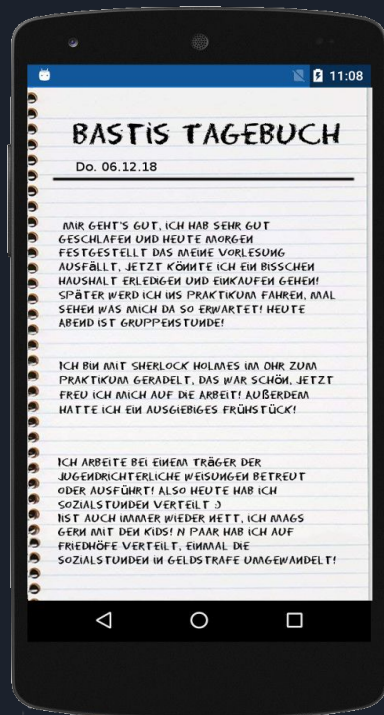
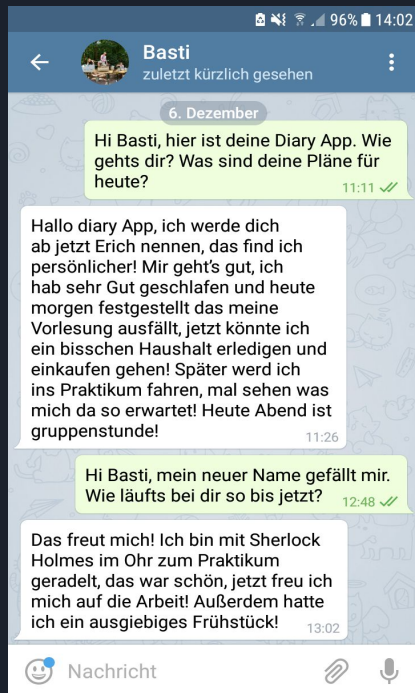


The first Mockup





Initial User Study





Feedback

- Basti would not use the app but he liked the way to communicate.
The way of entering input was very comfortable.
- The presentation of the input was nicely done and well structured.
- He liked the Idea of making content out of chat messages.

He asked very early to set the name of the Chatbot to “Erich”.

=> Personalization is very important



Implemetation





The Components





Telegram Bot

- Setting up new Bot
- Setting Image
- Setting Name
- Getting Token to access HTTP API
- Getting ChatID





Dialogflow

- Intents

- Start
- Name
- Greeting
- Good Mood
- Bad Mood
- Goodbye

- Fulfillments

Webhook to send the Telegram Data to the Firebase Database

Inline Editor (Powered by Cloud Functions for Firebase)

ENABLED



Build and manage fulfillment directly in Dialogflow via Cloud Functions for Firebase. [Docs](#)

index.js

package.json



```
154 //Methode to store the content to the Database
155 function saveContent(agent){
156   var unDate = request.body.timestamp;
157   var today = unDate.slice(0, 19);
158   var date = today.slice(0, 10);
159   var time = today.slice(11, 19);
160
161   var ref = db.ref("Data/users/" + request.body.originalRequest.data.message.chat.id + "/" + date);
162
163   var contentSave = ref.child("Message_" + request.body.originalRequest.data.message.message_id);
164   contentSave.set({
165     date: time,
166     content: request.body.result.resolvedQuery
167   });
168
```





Firebase

- Authentication
 - With Email and Password
 - Email Verification
 - User Name and Image
- Database
 - Storing of Telegram Messages
- Storage

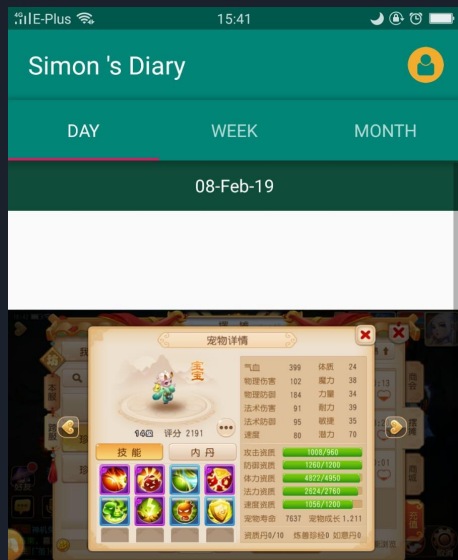


contentdatabase-ff384

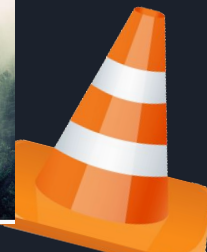
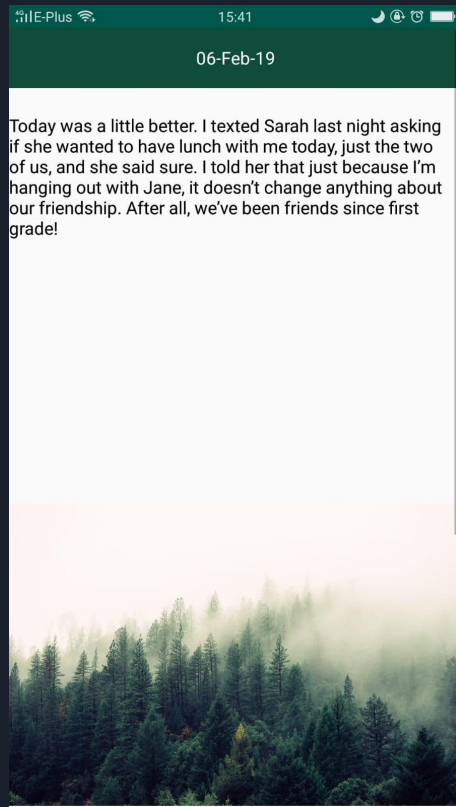
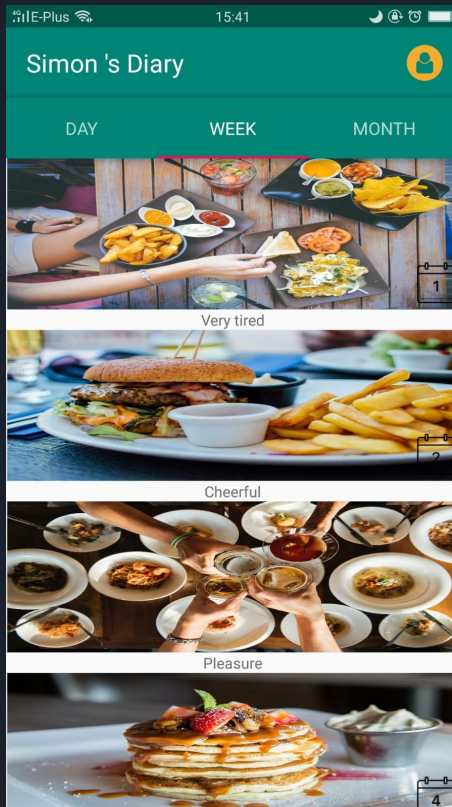




Application Layout



Today was a little better. I texted Sarah last night asking if she wanted to have lunch with me today, just the two of us, and she said sure. I told her that just because I'm hanging out with Jane, it doesn't change anything about our friendship. After all, we've been friends since first grade! Today was a little better. I texted Sarah last night asking if she wanted to have lunch with me today, just the





Application Features

- Login
- Set User Information
- Accessing Telegram Messages
- Storing Pictures
- Setting Notification Messages
- Chat Bot





Live Demo (advanced prototype)





Planned Additional Features

- Pictures over Telegram
- Personalization of the Bot Name
- Editing of own texts
- Collection of Day Highlight
- NLP for mood detection
- Intelligent notifications
- Own Web Service
- Security
- ...





Bobby, over and out...