Automa Text

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Architecture Of The App

Phone app sends xhr request to flask server

Flask server records xhr request into postgres db

Python cronjob reads from postgres db every ~minute . If it's time to send the text, it will use twilio API to send the text to desired phone number.
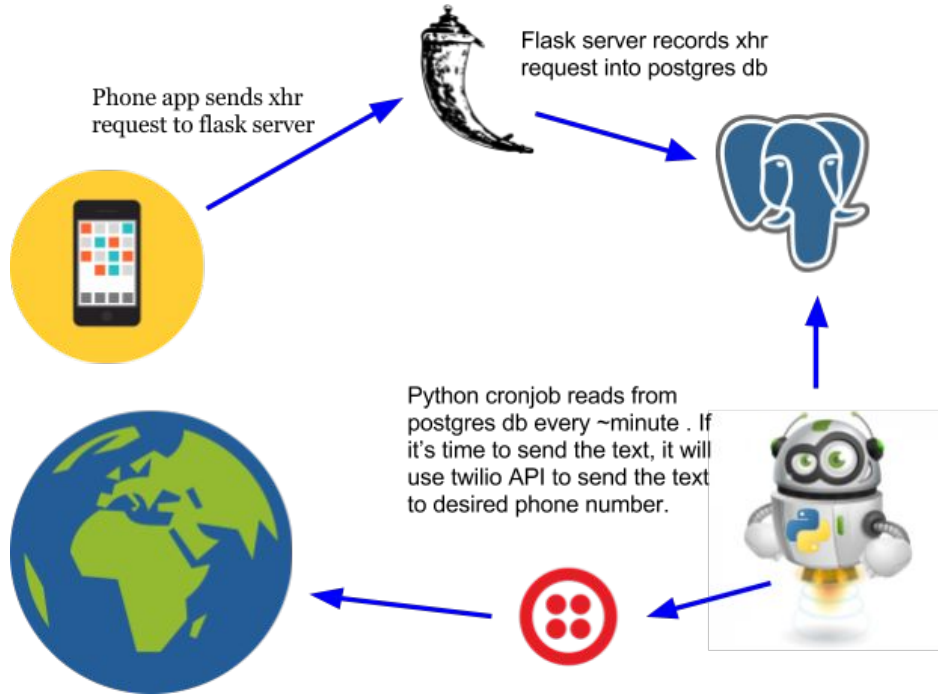
Phone app uses local database to store previous messages and messages that have yet to be sent.

Local database stays in sync with the external cloud database through api calls.

Android Components

- **Main Activity:**
  - Creates the options menu, edit menu, and the list view of previous texts.
  - Calls the editor activity when the add text button is clicked, or when a text in the list is clicked.
- **Editor Activity:**
  - Creates the menu that allows a user to create a text and pick a time for it it be sent. Most API calls to the cloud are made here.
  - Splash Activity (Shows the splash screen at startup)
- **Task:**
  - Class for our task data structure.
- **TaskCursorAdapter:**
  - Creates and updates the view for the list of texts from the local database.

Android Components Cont. (Local DB)

- **AutomaTextContract:**
  - Connects the phone to the local database.
- **AutomaTextDBHelper:**
  - Handles the local database CRUD
- **AutomaTextProvider:**
  - Acts as the controller between the data model and the ui

Layout/View Components

- 2 different layouts for views
    - Editor Layout / Main Activity Layout
- 1 layout for the list
    - Task List Layout
- Splash screen
- Date picker, Time Picker fragments

Video Demo

https://www.youtube.com/watch?v=W2-izkN1d98