Design Document

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1. Dashboard:

For dashboard I have used boilerplate code from flask gentelella theme as I'm familiar with it and it makes the coding faster with UI setup

The main files for the dashboard are

a.   app/home/templates/index.html

   Contains the html code for main page

b.   app/base/static/build/js/custom_change.js

   Contains jquery code for edit button in the main page

c.   app/home/routes.py

   Contains code for routing as well as API code for sending message through Twilio API and Microsoft's cognition API for sentiment analysis

d.   app/base/models.py

   Contains all models for storing user when logging as well as data of sent and received messages

2. Database:

Contains three tables for storing data on postgres

a.   User

   Stores username, email and password when user registers, this data is then later used to check for validation

b.   SentM

   Stores data of the phone number, name, text message and the product type selected when sending the initial message

c.   ReceiveM

   Stores phoneNum and text of the response from customer

- A design flaw here is if two messages are sent to same customer regarding two different products then using the above design the context of product type is lost

- Validation of phone number fields is missing as per Twilio standard