

Team SMS2CCQ

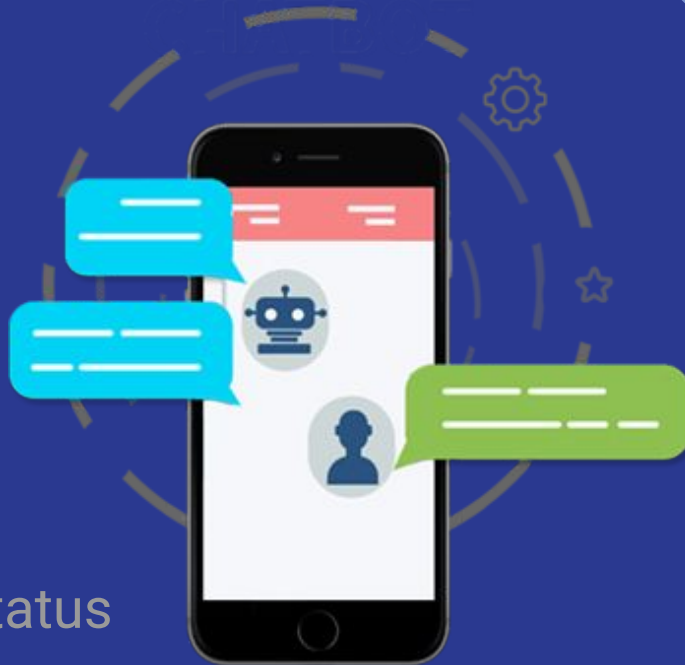
Super Messaging Solution 2 Cloudy Cluster Queue

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Project: CCQBot with Twilio

Goal: Use Twilio to build a chat bot that allows user to submit jobs and check status via text message



Team SMS2CCQ



Christian Garcia



Cindy Yongoueth



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Agenda

- ❏ Overview
- ❏ Approach & Solution
- ❏ Challenges
- ❏ Solution
- ❏ Demo
- ❏ Future Steps



Overview

Goal: Use Twilio to build a chat bot that allows user to submit jobs and check status via text message

Main Components:

- ❑ Cloudy Cluster
- ❑ Twilio
- ❑ Python Script - Integrate & Automate




Approach & Solution

- ❑ Divide and Conquer!
 - ❑ Team Divided into roles based on skill set
- ❑ CCQ Integration - Christian
 - ❑ Links phone number to Twilio Account to CCQ
 - ❑ Communication between Twilio and CCQ
- ❑ Twilio - Avery + Cindy
 - ❑ Python Script that receives, and sends text message back to user
 - ❑ Submit, Delete, Status on Jobs in CCQ
 - ❑ Automated status updates
 - ❑ Helpme command



Challenges

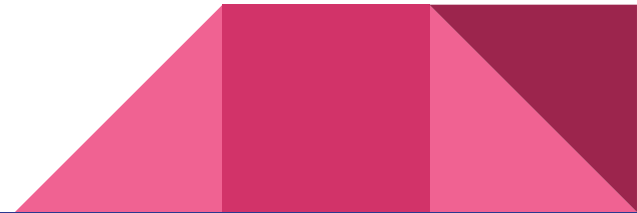
- ❑ Learning Python from scratch
 - ❑ Communication between Twilio & CCQ
 - ❑ Job ID retrieval from CCQ and implementation into Twilio
 - ❑ SSH Keychain not accessed by Python on Mac
 - ❑ User Experience
 - ❑ Automated Status Updates vs. Manual Status SMS
 - ❑ Networking Issues
 - ❑ Twilio doesn't allow URL setting
 - ❑ Docker doesn't allow easy network changes
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Cloudy Cluster Integration

Interacted with CCQ Client to submit,
delete, get status of messages



DEMO TIME



Future Steps

- ❑ Result Output
 - ❑ Location
 - ❑ GPU Information
 - ❑ Visual Output
- ❑ Improve UX
 - ❑ User chooses updates, frequency of notifications, output
 - ❑ Text Message Formatting
 - ❑ Emojis
- ❑ Network Linking
 - ❑ Linking User to different servers



Questions?

<https://github.com/NotChristianGarcia/sms2ccq.git>





Thank you!