MICHIGAN STATE UNIVERSITY Alpha Presentation New Customer Channel The Capstone Experience

Team Consumers Energy

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Department of Computer Science and Engineering Michigan State University Spring 2019

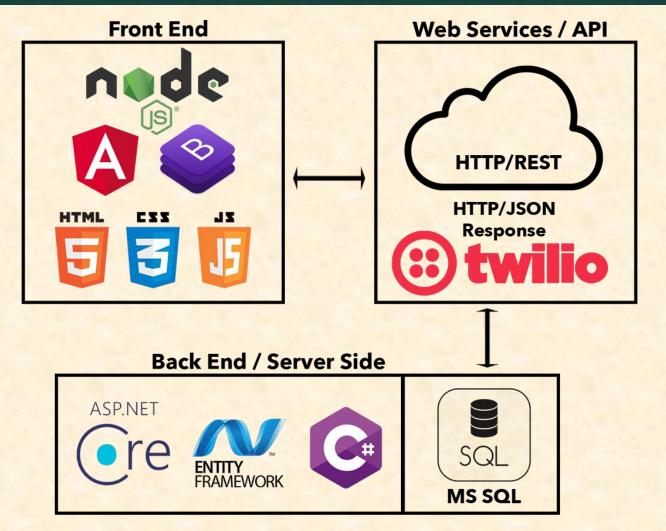


From Students... ...to Professionals

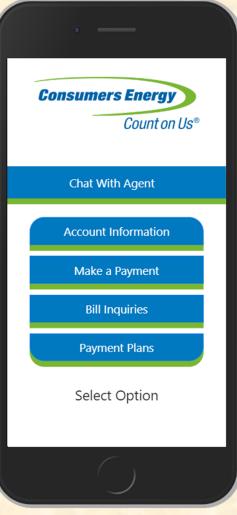
Project Overview

- Create a web application that utilizes technologies to sync with an ongoing phone call that allows the user to navigate a call tree and save valuable time.
- The web application would allow the user to make payments, inquiries, and setup other services that do not require a phone representative's help.
- If the specific inquiry requires a phone representative's assistance, the user can select to resume their position in the call queue and be routed to the next available representative for further assistance.

System Architecture



Main Menu UI



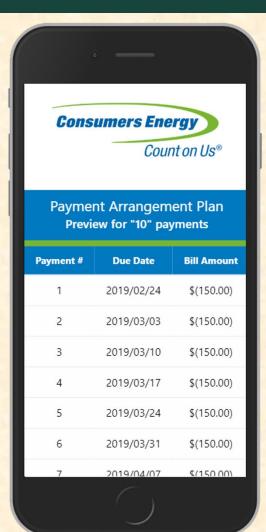
Account Information

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Consumers Energy Count on Us®		
Account Info		
Account Number	43532534	
Account Holder: 320 Willow, Detroit, MI 48994	Weinstock, Ben	
Amount Due:	\$123.5	
New Bill On:		
Make A Payment	View History	
Chat With Agent		
\square		

Make A Payment

Concurrence Enormy		
Consumers Energy Count on Us®		
Make A Payment		
Account Number	43532534	
Amount Due: Pay By:	\$123.5	
Last Payment:	\$70	
Paid On:	2018-12-29	
New Bill On:	2019-01-28	
Payment Op	tions:	
	▼ <u>PAY</u>	
<u>Account I</u>	nfo	
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Payment Arrangements Plan



What's left to do?

- Implement call queue system to support a large volume of users
 - Pending further input from Consumers Energy team on whether the queue system should be handled on Twilio's end or integrated into their already existing queue system.
- Fully integrate web application with the IVR system
- Properly authenticate users using a token-based authentication system
- Allow users to create a budget plan based off account status and payment history

Questions?

