VOICE MESSAGING SOLUTION
FOR COMMUNICATION

OUR CORE VALUES: PASTA - P = Passion, A = Appreciation, S = Simplicity, T = Trust, A = Accountability

CUSTOMER OVERVIEW

This is a SaaS based application that allows an organization's users of same network to communicate with each other through voice messages.

PROJECT FEATURES

- Users can see the list of other users and channels(group) of same network and can send voice message to other user or send voice message on channel(group).
- User can see the online and offline users. If someone goes online or offline, the logged in user of same network will get the notification of that.
- Users can see their voice chat history with direct contact or channels and play the voice messages any time.
- User can enable or disable auto play feature, if it is enabled then received messages are played automatically.
- User can view the location of the voice message sender , i.e., from where the user has sent the message. Preview of location is on map.
- User can also send direct voice message from map to that particular user.

PROBLEM STATEMENT

Any organization has several types of employees and workers with different job roles. To manage a kind of organization where employees move around and provide support to various kind of jobs, an application needs to be built which can track employee's current location on a map and also where manager or employee can talk to each other via voice communication just like a Push to Talk functionality. There needs to be group communication in which multiple employees can participate and send/receive voice messages in real-time.

CIS SOLUTION

The project was implemented using Voicelayer.io which provides real-time voice and text message communication. It is implemented using javascript framework - AngularJS as a web application. This web application was then deployed on a secured HTTPS protocol in order to provide support in both Chrome and Firefox browsers.

An external javascript code was used to provide support for chrome browsers running in background. Any employee who is logged into this application can see past locations of other employees in their contact list.

POSITIVE OUTCOME

Since the application was developed using Javascript framework, it is open source and can be deployed on any kind of web server. The use of AngularJS framework provides feasibility to show data in real-time as it changes. The website need not to be refreshed to see the updated data. It plays and receives messages in real-time events and notifies users.
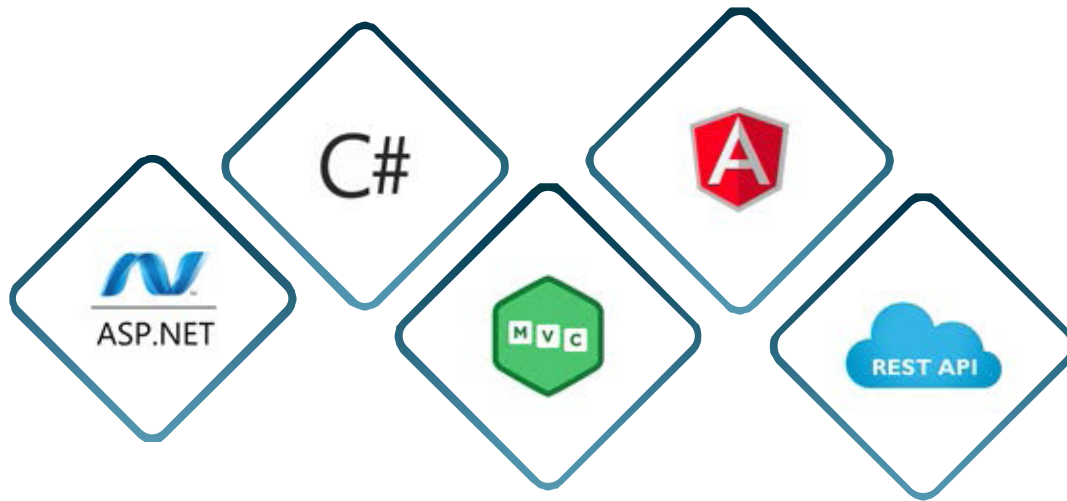
CHALLENGES WHILE IMPLEMENTATION

The main challenge was to integrate real time voice communication which should work on both mobile device browsers and desktop browsers.

TECHNOLOGIES USED

C#

ASP.NET

MVC

A

REST API

CIS
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