Team 7 Project Charter

DocTalk

**Team Members:**

Ben Hardin, Sanjana Koka, Nathan Merz, Jakob Molskness, Arron Smith, Ariana Zhu

**Problem Statement:**

Doctors frequently need a method to communicate with patients outside of the office to increase availability and promote patient follow-through, and patients often have questions for their doctor that can be quickly and conveniently answered through a messaging service rather than through a scheduled, in-person appointment. However, HIPAA adds restrictions to communication that prohibit using traditional messaging services such as email, SMS, or even WhatsApp. DocTalk provides a secure, HIPAA compliant way for doctors and patients to communicate in a timely manner without fearing for a patient’s privacy. Our product offers convenient export options for hospital record keeping, matching patients and doctors, and patient support group options not offered by current competitors.

**Project Objectives:**

1. Provide doctor-patient communication with multiple media formats
2. Allow scheduling in-app or in-person appointments between patients and doctors
3. Engage in HIPAA-compliant data management
4. Provide a web-based administrative interface for developers and health network administrators
5. Provide a method for matching patients with doctors
6. Offer a convenient way for patients to find support groups when dealing with difficult medical conditions

**Stakeholders:**

Users:​ Patients whose healthcare provider or doctor subscribes to the service

Developers:​ Ben Hardin, Sanjana Koka, Nathan Merz, Jakob Molskness, Arron Smith, Ariana Zhu

Project Manager:​ Supun Abeysinghe

Project Owners:​ Ben Hardin, Sanjana Koka, Nathan Merz, Jakob Molskness, Arron Smith, Ariana Zhu

**Deliverables:**

* iOS application using Swift UIKit front end for both doctors and patients
* HIPAA compliant authentication and storage including two factor authentication, end-to-end encryption using RSA, and regular backups using AWS
* Back-end storage storage and request servicing on an AWS-based SQL database
* An interface for matching compatible doctors and patients
* Capability to export to a standardized format such as PDF or CSV for healthcare providers to meet their record-keeping requirements
* Simple web page which allows providers to authenticate and download chat transcripts using HTML/CSS/JS and the Semantics UI framework