

## **Hospice Care - Executive Summary**

### **Overview:**

The vision of Share is to create a transparent, simple, and reliable communication channel between end-of-life patient caregivers and hospice nurses. Currently, caregivers seeking medical attention for their patients must contact a triage (a middleman) who will figure out who to notify. On the other end, doctors don't have a way to view immediate patient status unless they are notified. These doctors and nurses, who only have time to visit a patient 1-2 times per week, do not have the bandwidth to manage an inefficient communications system. Share aims to automate this communications process to alleviate stress and save time for both caregivers and medical personnel.

### **Target Users:**

Share will provide caregivers a reliable method to relay patient status to doctors and hospice nurses and will provide the hospice team with a fast way to view patient status and changes in status

### **Value:**

Share will streamline the fragmented communication process between caregivers and their hospice team. By consolidating this communication system, Share will alleviate stress for the caregiver by giving them the comfort of knowing their doctor is always up-to-date on their patient, while also giving the hospice team a more effective means of monitoring several patients and efficiently distributing resources to the most crucial areas.

### **Functionality:**

This application will present a separate interface for the caregivers and for the hospice team. From the caregivers' perspective, Share will connect each individual to their particular patient or patients. For each of their patients, the caregiver will be shown a report history and be allowed to add a new report. This daily report will present a decision tree of basic questions aimed at identifying high risk changes in their patient's health. From the hospice team's perspective, Share will prioritize patients by analyzing the caregiver reported data and then notify the hospice team of potential complications in these patients before they actually occur.

### **Technical Recommendation:**

We recommend developing a mobile app on iOS, and using the Firebase service for the app's backend. Share was envisioned to provide real-time notification and communication between the hospice team and the caregivers - and we agree with our client that a mobile app is able to solve both of these problems, by taking advantage of the ubiquity and convenience of smartphones. We chose Firebase for its convenience and efficiency. Instead of trying to reinvent the wheel and build a backend API from scratch, we can use Firebase's framework and spend more time developing and refining the features for the Share app. With regards to expenses, Firebase is free below a certain usage, and we do not foresee exceeding that limit as we develop the Share app this semester.