

## Reflection #1 – Pre-Project

### Activity Summary

During the week of November 7th, our team had the opportunity to ask several people with diverse backgrounds a series of questions aimed at helping our system cover a multitude of problems it could face. The information was gathered and was analyzed by all team members. The team interviewed two nurses at dementia & Alzheimer's care centers, and a faculty member Md Rakib Ur Rahman. The interviews covered these points, was there a product in place for something like wandering, pricing, typical things we should know about the patients to improve our project, and placement of the product to remain concealed.

### Limitations

During the interviews, the team did not have a functioning prototype. Some of the team members had some different ideas about future's feature. But we all agreed on the general design of the product. We also did not know how the basic operation of a dementia care facility and what kind of support the caregivers need.

### Goals

The goal for these interviews was to understand the problems and provide a better solution. At first, the main vision for the project's market was for resident homes. But we also wanted to know how the team would implement the project into large care facilities. In order to do that, we needed to know how these facilities are dealing with wandering, what

is their alarm system and what are the expectations and prices about our project and its feature.

## Perspective-Taking

One of the nurse from Comfort Care, a dementia care facility, loves the idea. She has already used a similar product for some of her high priority patient. But she likes that our project has many more features at a reasonable price. She expresses that our team can integrate the product with their existing employee management system, it would greatly help the workers there, especially their night shift workers. The electrical engineer TA think our project can work fine but some improvement can help with the system's accuracy.

## Teamwork

Our team consist of 5 electrical engineer majors. We are like-minded when working on the project which have some pros and cons. We can come up with the hardware for the project fast but have some trouble with the coding. But I think our group is very effective with this project. Everyone has a designated role that that helps the project running smoothly. We also have a task list that we talk about and update every week. About the interview, I was responsible for writing the questionnaire and explain to the interviewees about our project.

## Measures of Success

I think the interviews were very successful. We learn a lot about the environment of the dementia patient and their life inside dementia care facility. We were able to collect some of the data to improve our product. As of right now, most of the dementia care center

have a lot of staff to look after their patients. Some of the patients need special care and must be checked every 15 minutes. We also learned that healthcare is very expensive, and we believe our product will reduce some of the cost and make a difference for these healthcare workers.