

Aarti Thapar, Josh Terry  
Team name: Watchdog  
CS 4591 - A  
25 June 2018

### Final Project Deliverable #3

#### **1 - Overview of the project idea**

A primarily audio-driven device to keep pets safe while their owners aren't around. This device allows the owner to keep track of what their pet is doing whilst they are away; furthermore, this device allows the owner to monitor the pet's health as this device also sends notifications/alerts to the owner regarding any changes in the pet's health/ mood.

#### **2 - Describe the specific deliverable**

Our specific deliverable will focus on the design aspect of a dog collar that tracks conditions of the dogs, and also of a wristband or similar implement that the owner would wear which gives them alerts about the pet. We want our wearable devices to be marketable and designed with comfort and usability in mind. Thus, regarding the wearable device for the owner, we could possibly have a bonephone, in-ear monitor or even a mobile application as an alternative to the wristband that will alert the user about their pet. In addition, further design ideas can also focus on dealing with calming the dog, if their health is suddenly deteriorating or they are feeling tensed. This can be done through some sort of SSRI spray or a specific audio sounds that can soothe the dog. Specific research needs to be done in order to determine this.

#### **3 - Describe the tools, platforms, techniques**

Since we are taking a design approach to this project, we will not be creating an actual physical implement to perform this with. Instead, we will create a simple processing platform through which we will sonify data to users and collect feedback. This will consist of presenting different events that a dog might go through in its daily life to users and collecting subjects' thoughts on those noises: what did you think it meant? Was it annoying? Was it salient enough to you? Would you use this? And so on. We will then further refine the product accordingly and stage another test featuring a real dog. During this test, we will follow the dog's actions and sonify these to the user, and have the user convey what they think of the sounds conveyed, similar to the first test, but in a more organic method of delivery.

#### **4 - Provide a detailed timeline**

- Deliverable 3 is due 6/25. We've compiled some notes and have finalized a google document to be submitted at this date.
- We have updated the deliverable 3 to be resubmitted on 6/28, as outlined during our meeting.
- We would like to finalize our digital platform for research by 7/5. This will include a google form and a processing program through which we will sonify data to users.
- Preliminary research will take place on the weekend of 7/6. We would like to interview at least 10 participants, and as many dog owners as possible, for this study.
- Progress report (Deliverable 4) is due 7/12. We'll plan on having our initial research completed by now, as well as an updated sonification platform based on that feedback. We will also have rudimentary designs/mockups ready to go, as well as personas, user stories, and use scenarios.
- We will aim to perform our next round of research the weekend of 7/14.
- Throughout the next week, we will further refine our platform and compile our findings to be presented to the class.
- Final project (Deliverable 5) - 7/24 Finalized mockups, user stories, flow charts, etc. Final plan off attack as far as functionality, marketing, and design viability goes.
- Final presentation (Deliverable 6) - 7/26 We'll finalize our slide deck and have some flow diagrams, designs, user stories, use scenarios, personas, etc. ready to go.