MSc Computer Science Thesis: Leonard Goldschmidt

*Smart Assistant for Data Collection in Epidemiology*

1. Main Body

# Aims and Objectives

Meeting the aims and objectives listed below should result in successful completion of this project. For clarity purposes, the aims are split into high level and low level. High level aims focus on the overall outcome of the study, whereas low level aims focus more on application development. The minimum work required is laid out in the key deliverables section.

* + 1. High Level Aims

The study is centered around epidemiology as well as utilizing modern technology for the relevant research. Therefore, the aims are:

1. To determine if it is possible and how to implement and application that is able to run on an Amazon Alexa and/or Google Home device, as well as understanding the back-end differences for both platforms.
2. To build an application, runnable on a smart assistant, that allows a user to food and/or drink data by saying phrases like *“For lunch I had an apple and a diet coke.”*
3. To determine if an application, running on a smart assistant, can provide an alternative food logging technique for epidemiological research.

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* -  To determine if and how to implement an application

that is able to run on *Amazon Alexa* and/or *Google Home*, as well as understanding the back-end differences of both platforms.

* -  To build an application, running on a smart assistant that allows a participant to log a meal by saying a phrase like *“For lunch I had an apple and a diet coke.”*
* -  To determine if an application running on a smart assistant can provide an alternative food logging system for epidemiolocal research.