**Nosophobic**

An application to inform the public about chronic disease indicators   
in the United States

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**Abstract**

The problem being addressed in this report is chronic mental and physical health in the United States. While these problems are not solvable by a single initiative, we are concerned with reducing the prevalence of these issues.

Knowsophobic is an application designed to provide information about chronic disease indicators (CDIs) in The United States. Using public data collected from the Centers for Disease control and prevention, CDI risk factors will be calculated and used to rank regions.

**Scope**

Knowsophobic aims to address mental a physical health through minimizing users contact with chronic disease indicators. This is to be accomplished by educating users about the health risk behaviors that lead to chronic disease. (CDC)  
  
Based on the selection of one or more inputs (Year, State, Disease type) appropriate information regarding the selection will be generated and outputted.

Knowsophobic addresses mental health by give users a sense of control over the factors involving physical health. Research has demonstrated a link between perceived sense of control and physical and mental health. (Bloom) (Keeton)

**Input / Output**

The public data set used in this application is taken from The United States data.gov.

Published by the Centers for Disease Control and Prevention, U.S. Chronic Disease Indicators (CDI) is a public data set consisting of 124 indicators collected for states, territories, and large metropolitan areas.  
The data used has been collected between 2011 and 2014, across the entire United States.

Knowsophobic will allow the user to select a disease type, year, and/or a state.

The application will then output a GUI based map of America colorized by region (state, territory, or metropolitan area) based on the risk factors for the user selected disease with appropriate information regarding the user’s selection(s).

**Project Management**  
Owen Mitchell – Project Leader, Programmer, Tester

Bartosz Kosakowisk – Log Admin, Programmer, Tester

Anthony Mella – Programmer, Tester

Hamid Yuksel – Programmer (Front end), Tester

During this project, we will be implementing SCRUM design model.

**Objectives**

1. **Develop project requirements**
2. **Develop design specifications**
3. **Build basic functionality modules**
4. **Build prototype front end**
5. **Build testing suite (concurrently with obj. 3-4)**
6. **Expand functionality modules**
7. **Polish front end**
8. **Complete testing suite**

**Project timetable**

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| **Milestone** | **Date** | **Description** |
| Project Requirements | March 12th, 2017 | Submit completed requirements document. (Version 1.0) |
| Prototype | March 14th, 2017 | Complete basic back end prototype. (Significantly reduced functionality) |
| Design specification | March 18th, 2017 | Complete design specification document. (Version 1.0) |
| Front-End Prototype | March 18th,  2017 | Complete basic front end prototype. (Significantly reduced functionality) |
| Testing suite | March 22nd, 2017 | Complete testing suite for front/back end prototypes. |
| Final Submission | April 12th,  2017 | The remaining before the final submission is for polishing the visible product and completion of testing. |

**References**

Bloom, Howard K. *The Lucifer Principle: A Scientific Expedition into the Forces of History*. New York: Atlantic Monthly, 1995. Print.

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