**SympMeds**

**Requirements Document**

**Ver. 1.0**

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1. Application Overview
   1. Objective
      1. This application aids individuals in finding the right non-prescription medication to treat “common symptoms.” This application is fundamental so an individual may have an easier time finding the non-prescription drug they need.
   2. Business Process
2. The objective of this specific type of application that is being developed differs from those existing ones. This developing app is meant to suggest different off-counter medications based on the searched symptom(s). This application is also meant to inform the individual the symptom(s) the searched medication will treat. Current applications are limited to search symptoms or search for medications. These applications do not offer a complete search in which they inform specific names of off-counter medications but instead inform the general name of the drug that may treat such symptom(s) which is a great limitation.
   1. User Roles and Responsibilities
3. In this case, all the responsibilities that this application will require will be handled by Milena Fernandez and Randall Rosing. Both individuals will cover for all the necessary roles such as but not limited to: collecting the database, implementing the user interface, updating the application, maintenance and technical support for the user.
   1. Interaction with other systems
4. This application does share a relationship with other existing systems since it is a medical related application which contains off- counter information as well as specific symptoms’ information.
   1. Replacement of Legacy Systems
5. WebMD is an accredited health app which provides the following searches: symptom checker, conditions and drugs & treatments. Although this app shares the same basics as SympMeds, it differs from it since it does not suggest specific names of medications after searching by symptom..
   1. Terminology

Medication- A diagnosed treatment.

Symptom- A sign of characteristic to a possible condition.

Common Symptoms- Symptoms that are widely common to some specific disease.

Side effect- The possible result from the consumption of a medication.

1. Functional Requirements
   1. Statement of Functionality
      1. This application will allow a user to search for information on non-prescription drugs searching for the name of a specific drug or by symptoms the drug treats. This application is limited to look up common symptoms that have a name with the starting letters from A through G. Their corresponding matching medications will also be the only ones that the user may search for, otherwise the screen will provide with the following message, “I’m sorry, we can’t find your medication. Please try another one.”
      2. This application will consist of a search box in which you may either enter the symptom(s) or medication.
      3. If the symptom(s) is/are entered, then you will obtain the possible non-prescription medications that may be auto-prescribed (no doctor’s prescription necessary for purchase). The list will be display all the medications that will treat the searched symptom(s). The user will then be able to choose one medication at a time to review its information, that is: symptoms it treats, directions and warnings.
      4. If a medication is entered then you will only be able to view the medication’s information, that is: symptoms it treats, directions and warnings.
      5. It may be possible if time allows, sorting the results list based on most matching to the least matching medicine to the searched symptoms. Also, most importantly if time allows, we will implement more symptoms into the list since as of now we will only be providing common symptoms with the starting letters from A through G.
      6. Security
         1. Anyone is able to access the application. No log will be needed.
      7. Auditing
         1. Users will not be allowed to make any modifications to the symptoms’ relationship with their matched medications. Users shall be allowed to make any suggestions to the authors via private messaging.
         2. Only authors will be allowed to make any modifications to the app.
   2. Scope
      1. Phase 1 – Create data base.
      2. Phase 2 – Build search bar based on medication name and be able to display medication data.
      3. Phase 3 – Continue working on search bar, search by symptoms.
      4. Phase 4 – (Optional) Sort results based on best match.
   3. Performance
2. When pressing the search button to start a search, it should take approximately 3 to 5 seconds for the results list to appear. Opening one of the symptoms or medications information should take up to 3 seconds.
   1. Usability

The implementation of more symptoms into the database.

* 1. Concurrency

There will be no simultaneous occurring activity.

1. Appendices
   1. Author(s) background and expertise
      1. Milena Fernandez
         1. B.S in Computer Engineering, University of Cincinnati, Class of 2015
         2. Skills- Microsoft Visual Studios (C++), Java programming
      2. Randall Rosing
         1. B.S. in Computer Science, University of Cincinnati, Class of 2016
         2. Skills – C++, Java
         3. Expertise – writing and debugging the code