**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 medication 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 over-the-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 over-the-counter medications but instead informs 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, testing, 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 which 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 provide the user with a drop down list of symptoms. The user will choose a symptom and will then be able to view that symptom’s information along with a drop down list of medication(s) that can possibly treat that symptom. After choosing a medication, the user will be able to view that medication’s information.
      2. This application will consist of a drop box in which you may either enter the symptom(s) or medication.
      3. After choosing a symptom, the user 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 user decides to choose a medication from the drop-down list, they will only be able to view the medication’s information, that is: symptoms it treats, directions and warnings.
      5. A dummy button will be added with the purpose of searching for the nearest pharmacy. If time allows, this will be potentially put to work.
      6. 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.
      7. Security
         1. Anyone is able to access the application. No log will be needed.
      8. 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 choosing a symptom/medication from the drop-down list, , it should take approximately 3 seconds for the new page to come up.
   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