



Project Proposal:

HealthKeeper Medication Timer and Tracker

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Table of Contents

Introduction	2
Client Operations	3
Executive Summary	3
Cost Summary	3
Terms and Conditions	4-6
Contact	7

Introduction

Quintet Software Company (QSC) proposes to build a HealthKeeper Timer and Tracker (HealthKeeper). This application will allow patients to monitor, track, and receive reminders about their medication use: when to take the next dose of medication and how many days remain given the number of pills left. Users (patients) will log into their profiles on the HealthKeeper website to view and track their medication use schedule. Once logged in, users will be able to see notifications reminding them of their next dose.

Purposes of HealthKeeper:

1. To help patients take their medication in a timely and consistent manner, without gaps or overdoses.
2. To help patients monitor their medication supply so they can reorder medications before they run out of them to have uninterrupted treatment.

This application can be used within hospital environments with in-patients, with clinic outpatients, and anyone willing to obtain a reliable tool to monitor their medication intake and supply.

Client Operations

HealthKeeper will perform the following operations:

- allow users to input their personal information (name, date of birth, address)
- store users' personal information
- allow users to input information about their medications that they are taking
- the database will match the user's input to identify the specific medication and present the recommended dosage and schedule. Users must confirm that recommendations match prescription information since dosage may vary based on doctor's discretion.
- store medication prescription information including dosage, frequency, and duration.
- show medication reminders about when patients must take their next dose
- inform patients how many pills they have left in their possession
- inform patients how many days remain on their current pill supply
- inform patients how many days remain on their treatment plan

- inform patients how many pills are required to purchase beyond current pill supply in patient's possession

Executive Summary

The software program will be built using Java programming language for back end processing and will have a web-based user interface built using HTML, CSS and JavaScript. The database will contain information about medications, dosage, duration of treatment, and other relevant info. End users will be able to interact with the software through a responsive website using a desktop computer, tablet, or mobile phone.

Cost Summary

To accurately gauge the cost of the project, it is important to gain an idea for how long the program will take to produce. Therefore, a plan needs to be outlined that will indicate the time frame for the implementation of all the features. Considering that the HealthKeeper will be the first exploit of Quintet Software Company into a project of this scope, it makes sense to be overindulgent in the amount of time required for each milestone. With that said, this is the 8-week time table for the HealthKeeper:

Week 1 - Proposal & Statement of Work

Week 2 - Creation of variables and classes, creation of the user interface

Week 3 - Data Structure creation, storage of class objects, layout of user interface

Weeks 4, 5 & 6 - Creation of events and methods, GUI event handling and implementation

Week 7 - Research and addition of specific medicines and default options/settings

Week 8 - Final testing and debugging

Now with an idea of the time required for the project, a cost estimate can be established. Considering for the moment that all software required is accessible for free, the only pricing that concerns the project is the salary of the workers. Our company is comprised of a group of students who are working for free, and thus the final price to create the project should be \$0. However, in the real world, a project such as this would be made by a group of workers that would require financial compensation. In such a case, it is appropriate to consider the cost. Say for example this group of 5 individuals were to work part time on this project at \$15/hour. If each were to put forth 10 hours of work a week, the pricing would work out to this:

5 workers * \$15/hour * 10 hours/week * 8 weeks = \$6000

Therefore, a fair total cost estimate for the HealthKeeper produced by 5 amateur programmers working part time for 8 weeks would be around \$6000.

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