Group G Project

Analysis Document

Anthony McBride, Amber Maynard, William Suter

CMSC 495

1. **Requirement:** The program must be able to enter, edit, and delete dates and events/wish lists into an application program. The program must also be capable of displaying the information entered into the program to the user.
2. **Analysis:**  This section outlines the outside systems that the application program interacts with such the input data, the output data, and the data processing function that converts input data into output data.
   1. **Outside systems:** The user, a database (maintained by the program), input devices (mouse and keyboard), and a monitor.
   2. **Input data:** Text and numbers in the form of dates, special events, wish lists, and names. User requests for information.
   3. **Output Data:** Confirmation message “Information submitted.” A display of requested information.
   4. **Data Processing:** The program will accept data input by the user and store the data into a database. The user will also be able to retrieve specific data from the database. The following list describes some of the data processing aspects of the program:
      * 1. Text or numbers input by the user are used to search the database for specific data related to the users input (I.E. events that occur on a specific date, or the wish list of a specific loved one).
        2. The default date will be set as the current date. When the program is executed the current date is calculated.
        3. The ability to edit an existing event will be available.
        4. An add event function will be available that will allow the user to add the date, name, and person associated with the event.
        5. An add wish list function will be available that will allow the user to add a wish list for a specific person.
        6. An add person function will be available that will allow the user to add a profile for a specific person.

The following context diagram represents the relationship between the user and the program:

**Figure 1.**



The Special Dates/Wish List program consists of three key functions: Adding a new person to the database, adding special dates and wish lists for each person that exists in the database, and retrieving and displaying the special dates associated with a selected person. Each function (as well as the database and the GUI) is represented as a sub-system in the following sub-system diagram.

**Figure 2.**

****

1. GUI/Input Interface: This sub-system takes information from the user (entered with a keyboard). The information that can be entered is the name of a person, special dates associated with a specific person, and wish lists associated with a specific person.
2. Add Person: This sub-system takes the name of a person (entered by the user via keyboard) and creates a directory in the database that will be used for the storage and update of information.
3. Add Special Dates/Wish Lists: This sub-system will allow the user to add additional data regarding a person’s special dates and wish lists to the database. The information is entered into the GUI via a keyboard, and the person to whom the data is associated with is selected by the user.
4. Database: The database will store data provided by the user. The data may be used at a later date to display information regarding a person at the request of the user.