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| Group G Project Analysis Document  Due: 9/8/13  By: Anthony McBride, Amber Maynard, and William Suter  CMSC 495, Current Trends and Projects in Computer Science |

# Requirements:

1. The program must be able to enter, edit, and delete dates for events and wishlists/notes into an application program. The program must also be capable of displaying the information entered into the program to the user.

# Analysis:

1. 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 input devices (mouse and keyboard), and a monitor.
   2. **Input data:** Text and numbers in the form of special events with dates, and wish lists stored within a database which is maintained by the program.
   3. **Output Data:** Confirmation message “Information submitted.” A display of requested information in order to confirm the information has been entered. Once the information is saved the modification window should close and it refreshes the main window to show the new information if it meets the criteria.
   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:
2. 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).
3. The default date will be set as the current date. When the program is executed the current date is calculated.
4. The ability to edit an existing event will be available.
5. An add event function will be available that will allow the user to add the date, name, and person associated with the event.
6. An add wish list function will be available that will allow the user to add a wish list for a specific person.

Figure – Context Diagram

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

Event Dates, special dates, wish lists, and data request

Display of loved ones information

Data input by user/data requests

Data requested by user

User

Graphical

User

Interface

Database

Figure – System Diagram

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.

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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.

# Possible Enhancements:

1. Addition of multiple profiles – Add in the ability to have multiple profiles set up for the program to allow for many individuals to have their own set of important dates and events to keep track of.
2. Web based – This will improve the accessibility from multiple locations.
3. Mobile application – given that users often have many mobile devices changing the application so it can be utilized on other mobile devices and function properly it will increase the possible uses for the program.

# Risk and Mitigation:

Though there are several risks when approaching a project of this maginitude there also has to be several

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| **Problem/Risk** | **Risk Level** | **Mitigation Strategy** |
| Time Constraints | Extremely High | Every member to provide information |
| Response | Extremely High | Request information from all members. |
| Client configuration | Extremely High | Set minimums when implementing the program to ensure users will be more likely to be able to run the program. |
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