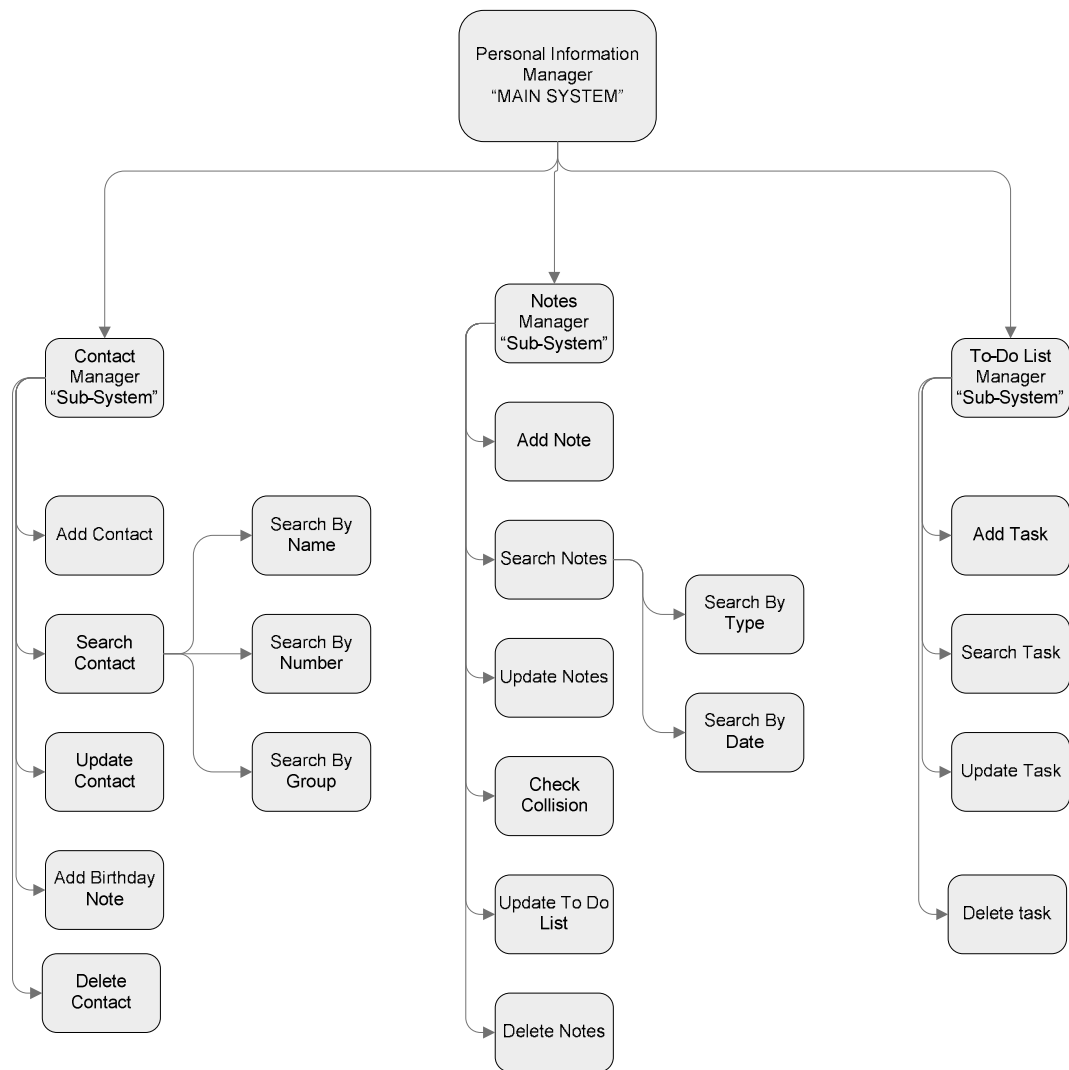


APPENDIX B

Design Document

FUNCTIONAL PARTITIONING:



Design Document

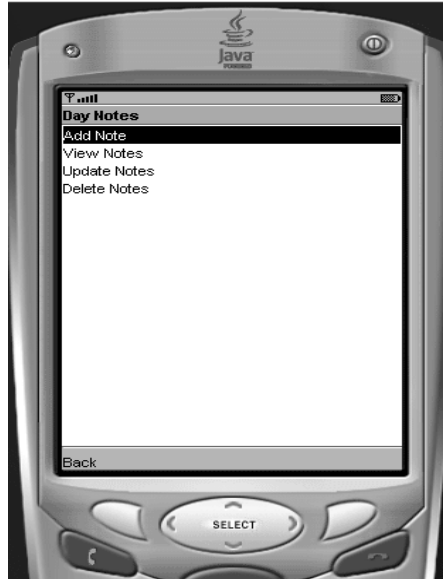
USER INTERFACE DESIGN:

The user interface was designed using the screen design features of the tool NetBeans 5.5.1 Mobility pack for both menu type and the form type interfaces with the required buttons.

The menus were designed by using List Screen type and some of them are as follows:

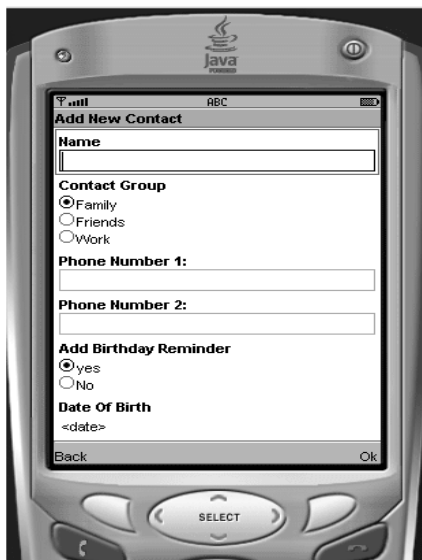


Menu List for Contacts Menu

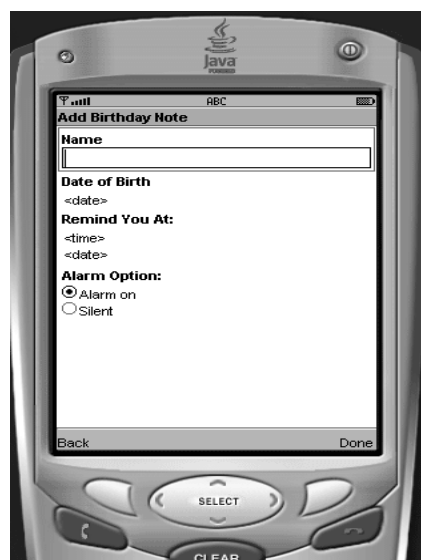


Menu List for Day Notes Menu

The forms for the addition of contacts, notes, tasks along with all the different search forms were designed by using the Form Screen and different form components such as textfield, datefield etc. Some of such form user interfaces are as follows:



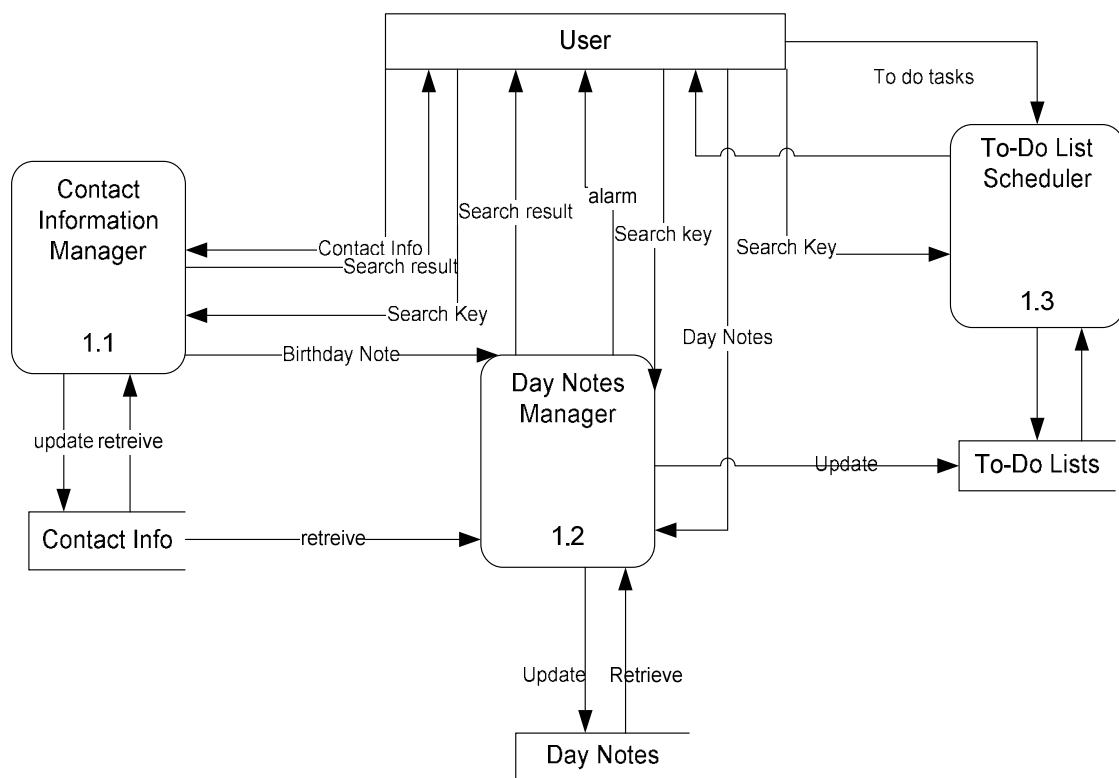
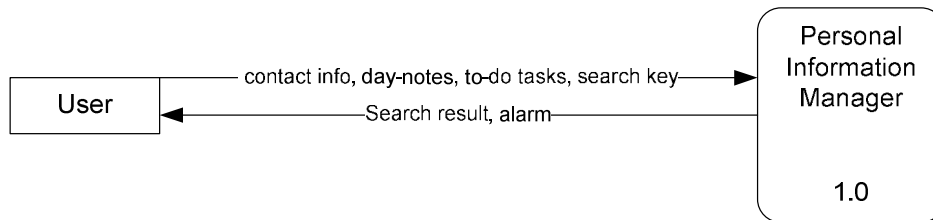
Form Interface to add contact information



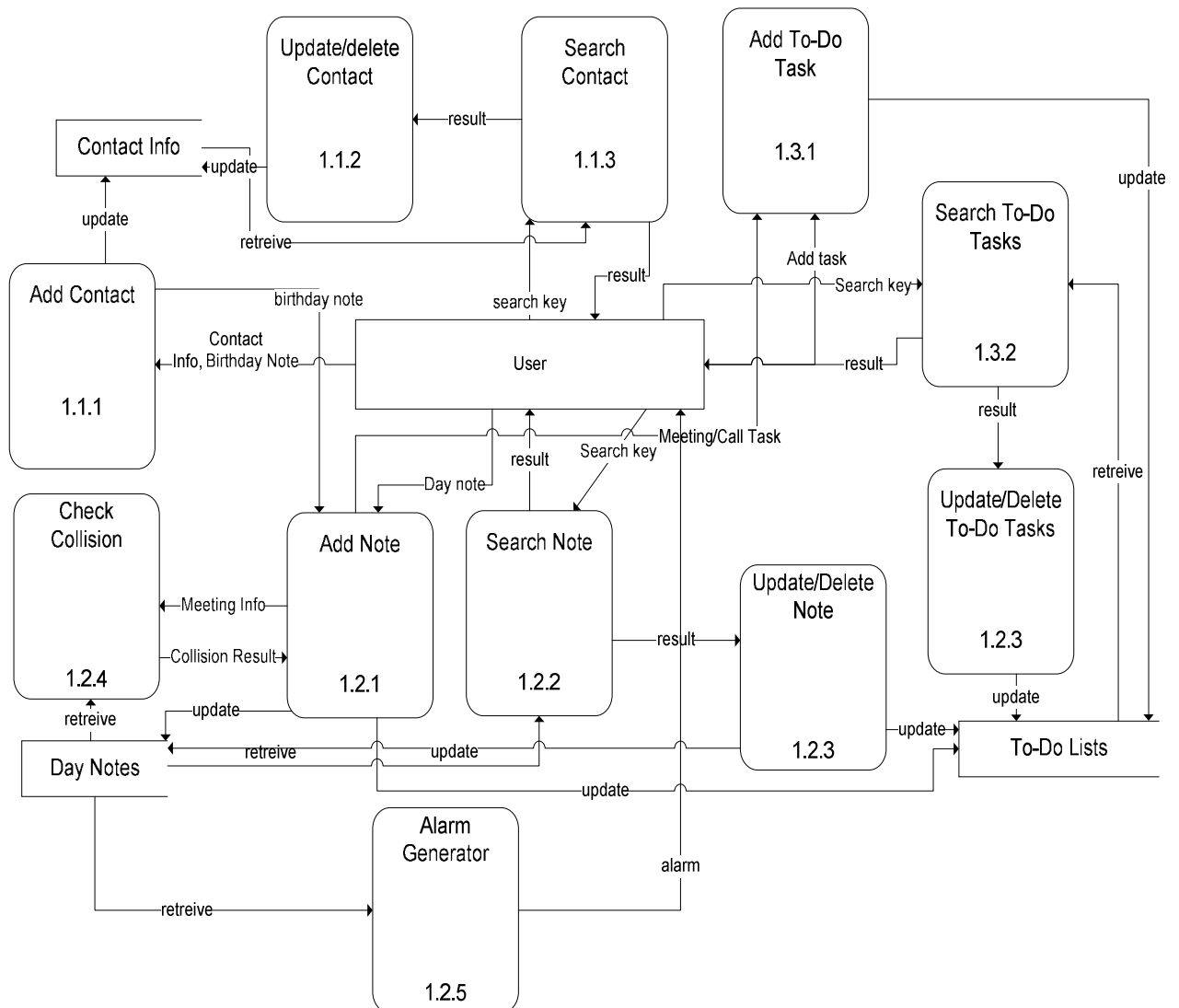
Form Interface to add Birthday Note

Design Document

DATA FLOW DIAGRAMS

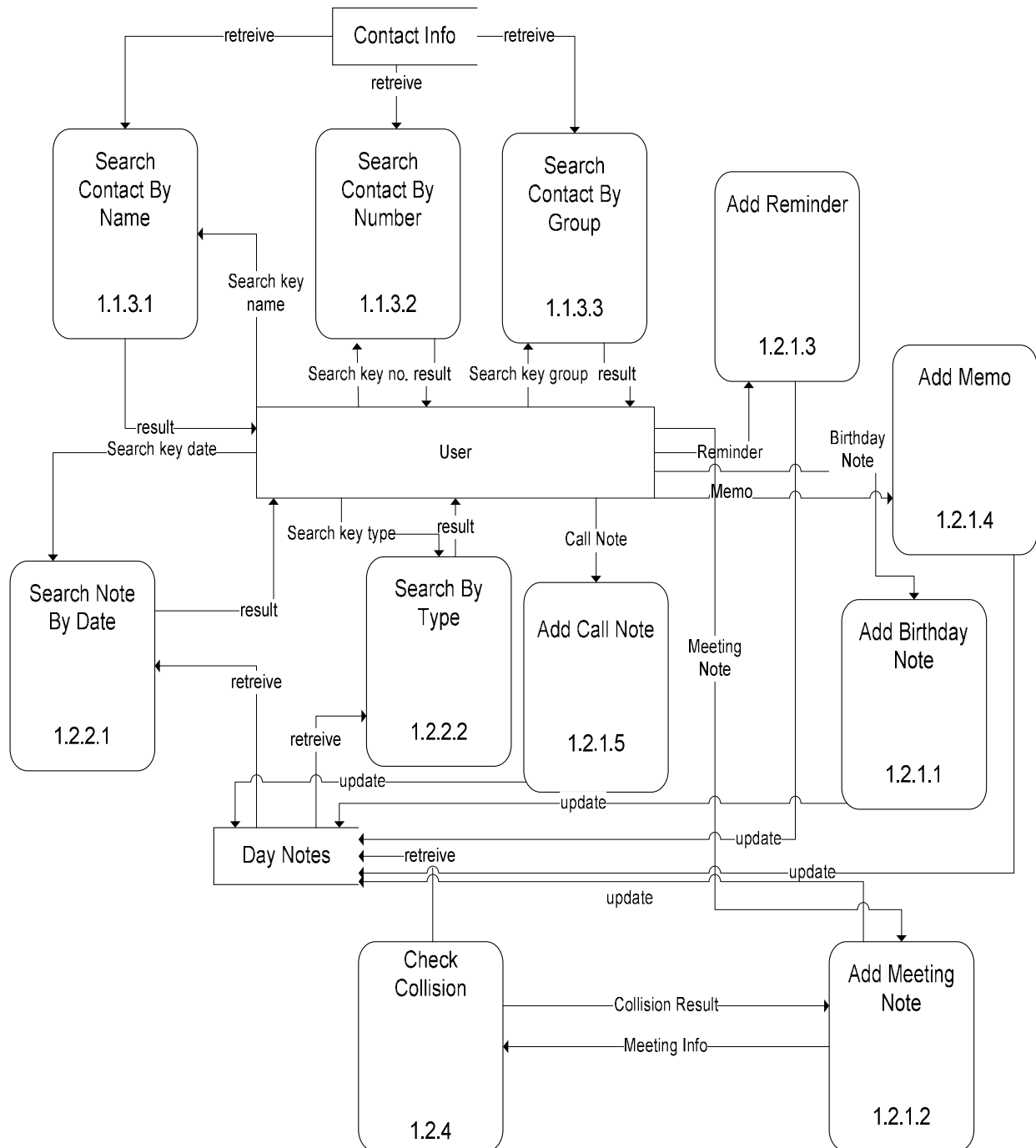


Design Document



2-Level DFD

Design Document



3-Level DFD

Design Document

Process Specification:

PSPEC 1.0

Input:	Contact Info, Day Notes, To-Do Tasks, Search Key
Output:	Search Result
Working:	Inserts Contact Info, Day Notes, To-do tasks to database Allows to search the information and update or delete the information

PSPEC 1.1

Input:	Contact Info, Birth Day Note, Contact Search Key
Output:	Search Result
Working:	Inserts contact info, and birthday note to database Allows to search and update or delete contact information

PSPEC 1.2

Input:	Day Notes, Day note search key
Output:	Search result
Working:	Inserts day notes to the database and avoids collision in meeting notes Allows to search and update or delete the day notes Inserts the meeting and call tasks to to-do list table

PSPEC 1.3

Input:	To-do tasks, Task Search key date
Output:	Search result
Working:	Inserts the tasks to the database and allows to search, update and delete the tasks

PSPEC 1.1.1

Input:	Contact Info, birthday Note
Output:	Record Added/ failed
Working:	Inserts the contact info to contacts table and birthday note to the notes table if user opts to add reminder for birthday

PSPEC 1.1.2

Input:	Updated contact information
Output:	Record updated/ failed
Working:	Calls search contact function and performs the update or delete operations over the search result

PSPEC 1.1.3

Input:	Search key for contact
Output:	Search result
Working:	Search the contact information as per search key and display

PSPEC 1.2.1

Input:	Day notes
Output:	Record Added/ failed
Working:	Inserts day notes to the database

PSPEC 1.2.2

Input:	Search key for notes
Output:	Search results
Working:	Searches the notes information from table as per search key and displays the search result

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PSPEC 1.2.3

Input:	Updated Note information
Output:	-
Working:	Calls search note function and performs update and delete tasks upon the search results

PSPEC 1.2.4

Input:	Meeting Schedule
Output:	Collision Result
Working:	Compares input meeting schedule with those in database and gives collision result as 1 for collision and 0 for no collision

PSPEC 1.2.5

Input:	-
Output:	Alarm
Working:	Retrieve the Notes information from Notes Table and compare with the current date and time and if same as reminder date and time in note information then ring alarm or give silent alert

PSPEC 1.3.1

Input:	Task Info
Output:	Record Added/ failed
Working:	Inserts Task Information to Database

PSPEC 1.3.2

Input:	Search key for tasks date
Output:	Search result
Working:	Search task as per search key from database and displays the search results

PSPEC 1.3.3

Input:	Updated task
Output:	Record updated/not
Working:	Search task first and perform update/delete operation on the search result

PSPEC 1.1.3.1

Input:	Search key name
Output:	Search result
Working:	Searches the contact information as per name

PSPEC 1.1.3.2

Input:	Search key number
Output:	Search result
Working:	Searches the contact information as per number

PSPEC 1.1.3.3

Input:	Search key group
Output:	Search result
Working:	Searches the contact information as per group

Design Document

PSPEC 1.2.2.1

Input:	Search key date
Output:	Search result
Working:	Searches day notes as per date of reminder

PSPEC 1.2.2.2

Input:	Search key type
Output:	Search result
Working:	Searches day notes as per type of note

PSPEC 1.2.1.1

Input:	Birthday note
Output:	Record Added/ failed
Working:	Inserts Birthday note

PSPEC 1.2.1.2

Input:	Meeting note
Output:	Record Added/ failed
Working:	Calls collision check and inserts valid meeting note

PSPEC 1.2.1.3

Input:	Reminder
Output:	Record Added/ failed
Working:	Inserts Reminder note

PSPEC 1.2.1.4

Input:	Memo
Output:	Record Added/ failed
Working:	Inserts Memo Note

PSPEC 1.2.1.5

Input:	Call note
Output:	Record Added/ failed
Working:	Inserts Call Note

Design Document

DATA DICTIONARY:

Contact Info:

- Name: Name of the contact personal (compulsory)
- Number1: Phone Number of contact persona (compulsory)
- Number 2: Other Phone Number of contact person (optional)
- Group: Contact group of the person (By default family)
- Birthday: Birth date of the contact person (optional)

Day Note Info:

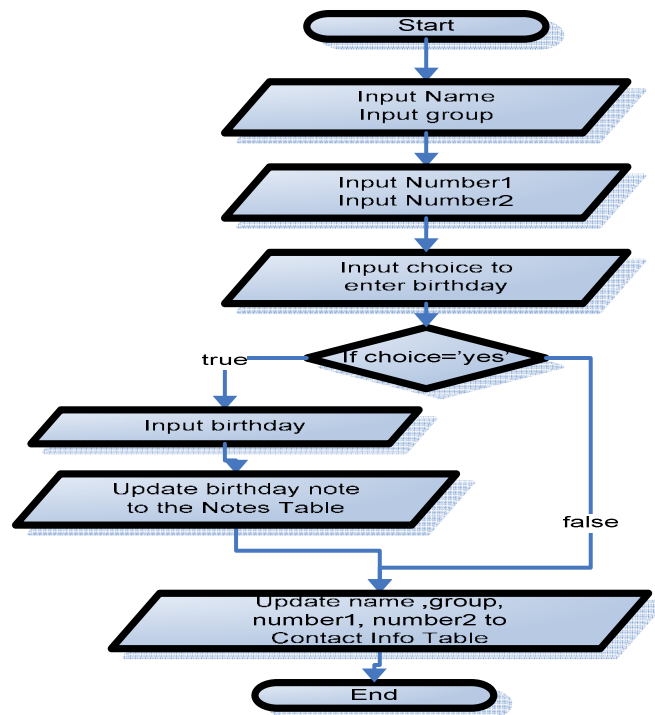
- Birthday Note
 - Name: Name of the person for whose birthday, note is added
 - Date of Birth: Date of birth of that person
 - Reminder_time: Time to remind user of the note
 - Alarm Select: Option to select whether to be reminded with tone or silently
- Meeting
 - Subject: Subject of meeting
 - Location: Location of meeting
 - Start_time: Meeting start time
 - End_time: Meeting end time
 - Date_of_Meeting: Date of meeting
 - Reminder_Date: Date of reminder
 - Reminder_Time: Time of reminder
 - Alarm Select: Option to select whether to be reminded with tone or silently
- Reminder
 - Reminder_subject: Subject to be reminded
 - Reminder_Date: Date of reminder
 - Reminder_Time: Time of reminder
 - Alarm Select: Option to select whether to be reminded with tone or silently
- Memo
 - Memo Subject: Subject to be reminded
 - Reminder_Date: Date of reminder
 - Reminder_Time: Time of reminder
 - Alarm Select: Option to select whether to be reminded with tone or silently
- Call
 - Call_number: Number to call
 - Call_name: Person name to call
 - Reminder_Date: Date of reminder
 - Reminder_Time: Time of reminder
 - Alarm Select: Option to select whether to be reminded with tone or silently

To-Do Info:

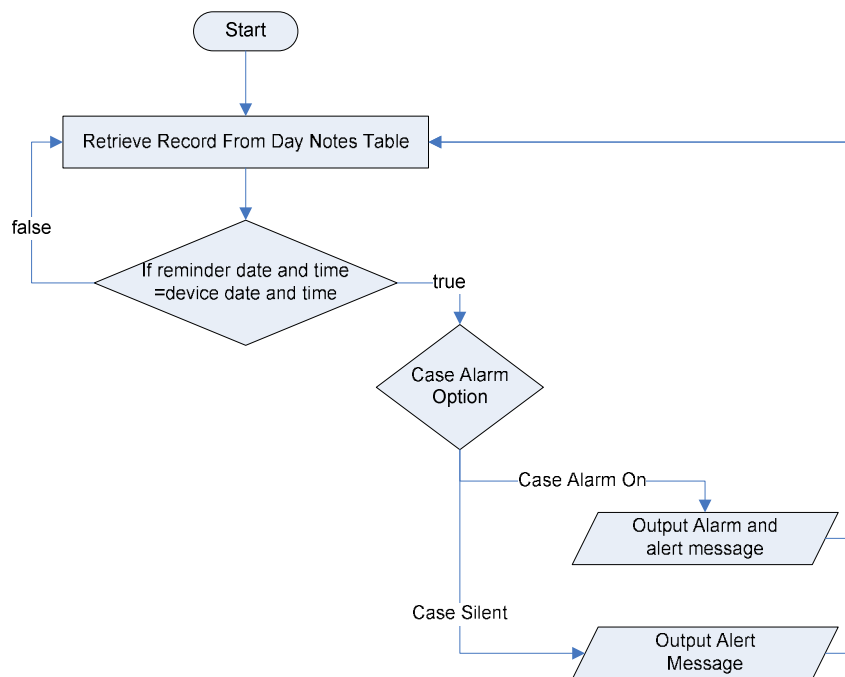
- Task Name: Task name to add
- Date: Date of the task to be done
- Priority: Priority of the task

Design Document

FLOWCHARTS FOR THE FEW MAJOR FUNCTIONS:

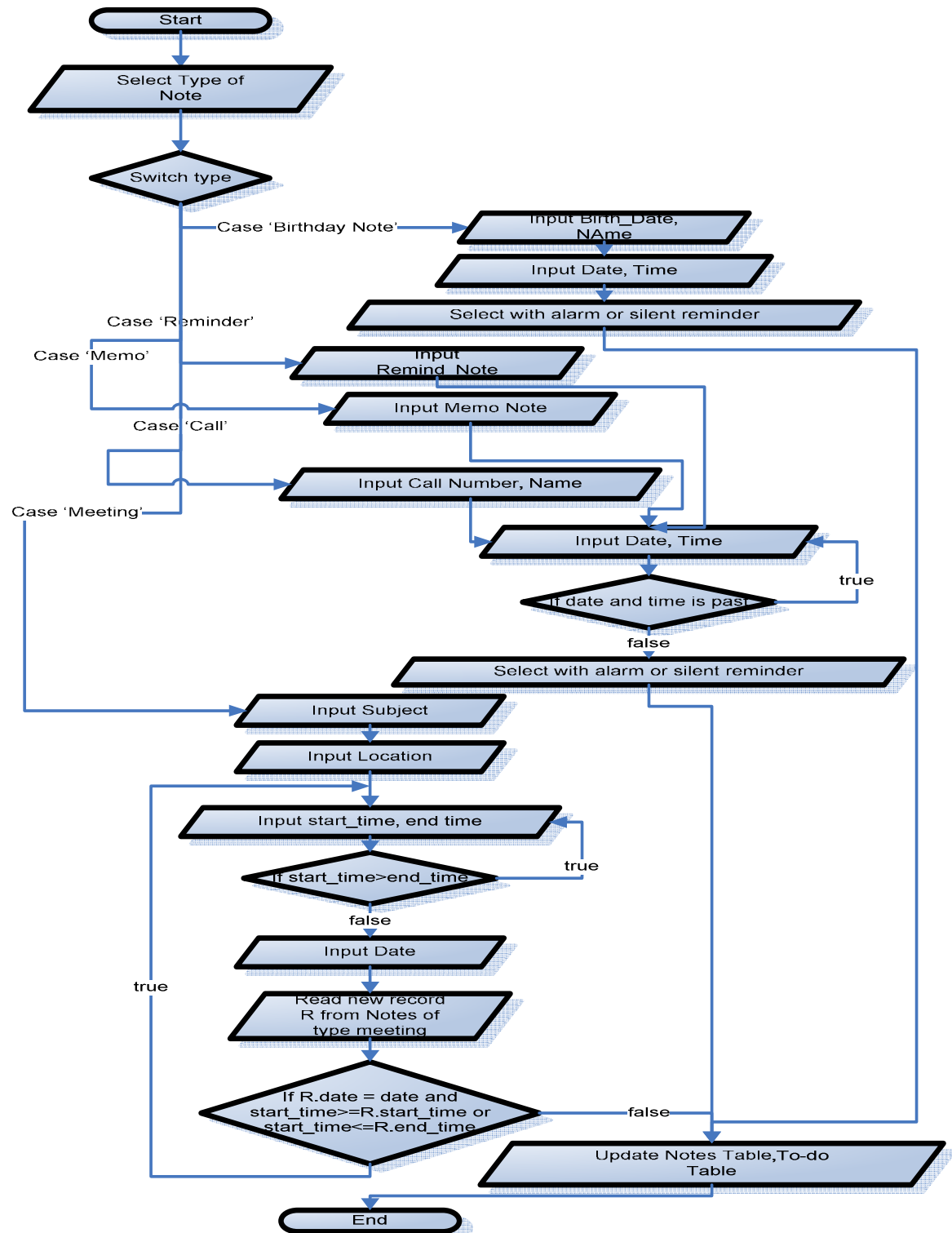


Add_Contact_Info



Alarm Generator

Design Document



Add_Day_Notes

Design Document

DESIGN REFERENCES:

Requirement	Functions
Enter birthday notes from contact information	Add_Contact, Add_birthday_note
Avoid meeting schedule collision	Check_Collision
Integrate day-notes and to-do lists	Update_to_do_list
Make contact information available for day notes and to-do lists	Search_contact
Provide multiple search options for contact information and day notes	Search_contact_by_name, search_contact_by_number, Search_contact_by_group, Search_note_by_type, Search_note_by_date