ID :20399

Design Document

Goal of the Project: -

The Goal of this app is to notify the user with different kind of messages their upcoming Birthday i.e. Number of days or weeks or months etc. remaining in the current year prior to their upcoming Birthday

Steps: -

->Get Input from the User in the Specified Format.

->Fetch todays date from the System.

->Find the difference in number of days between the Current date and the Birth date.

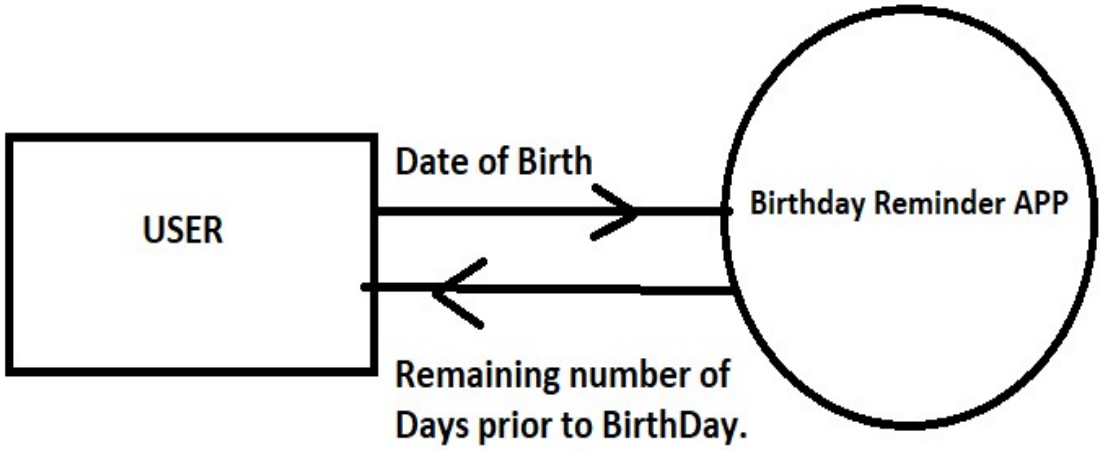
->With reference to the difference in number of days check whether the Birthday is yet to come or has passed.

->Alert the user about their Upcoming Birthday accordingly.

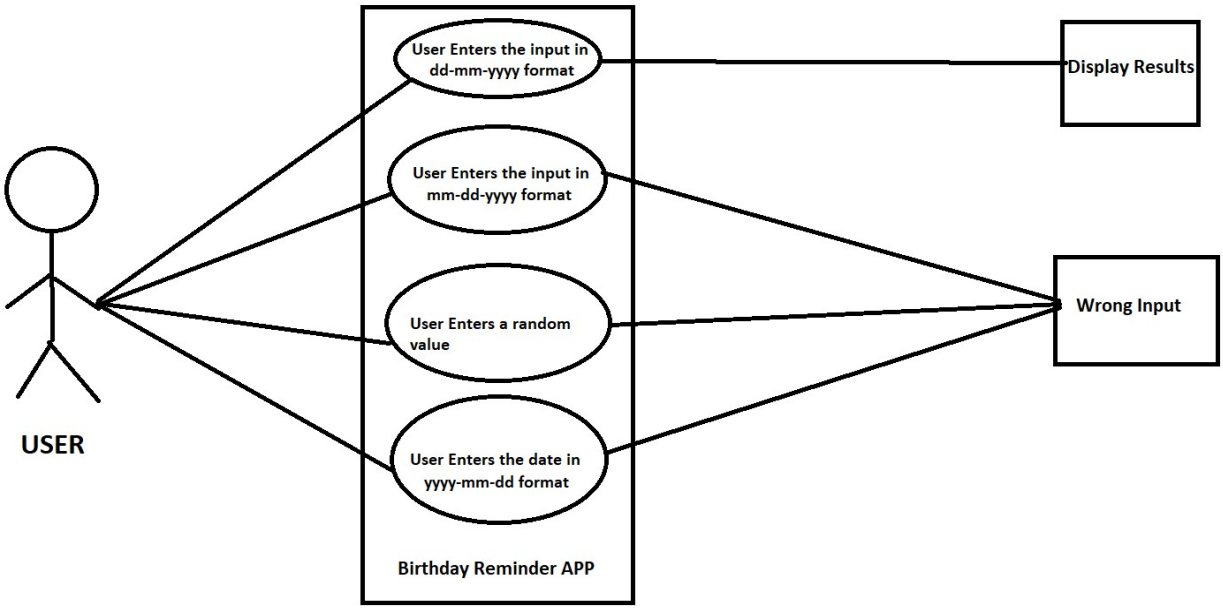
->Prompt different types of message to the user based on the remaining number of days or number of days already passed from the Birth date.

->Prompt messages to the User if their Birthday is already passed.

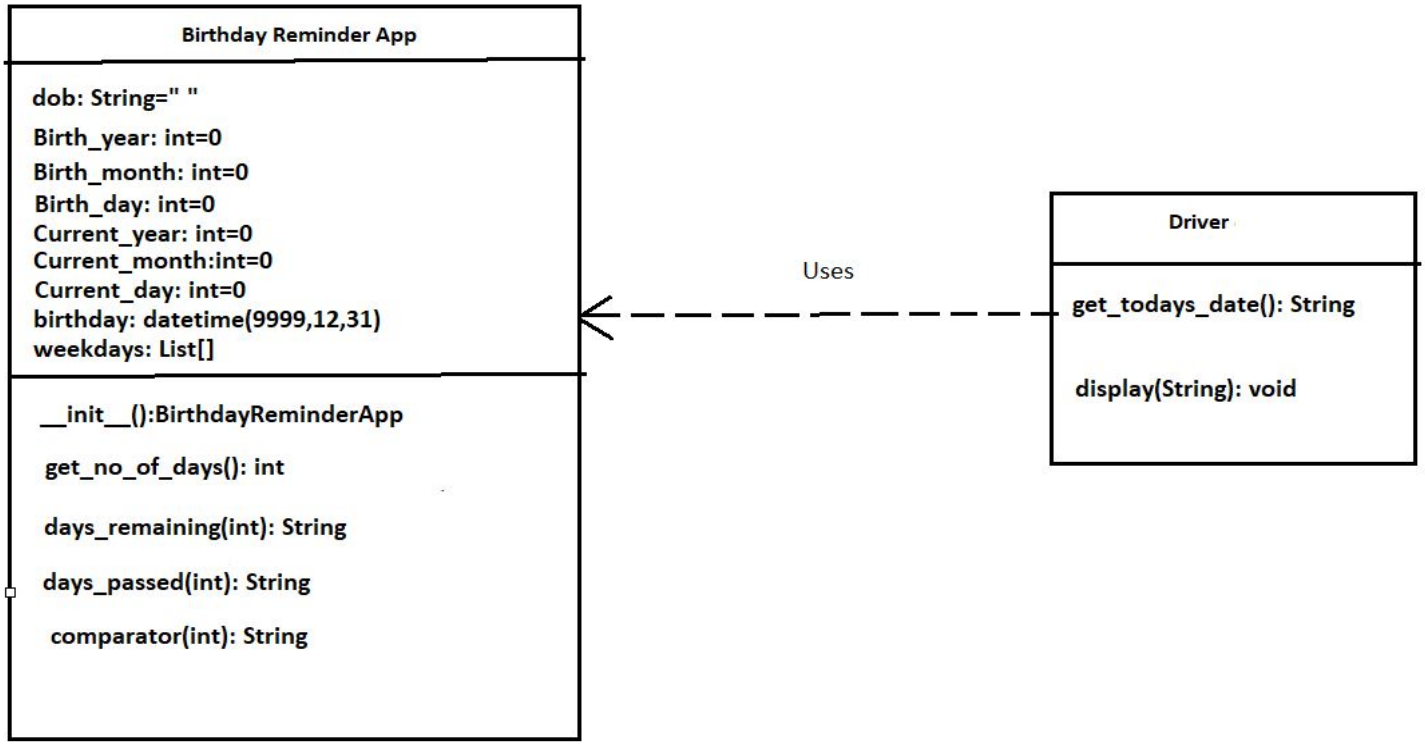
High Level Design: -



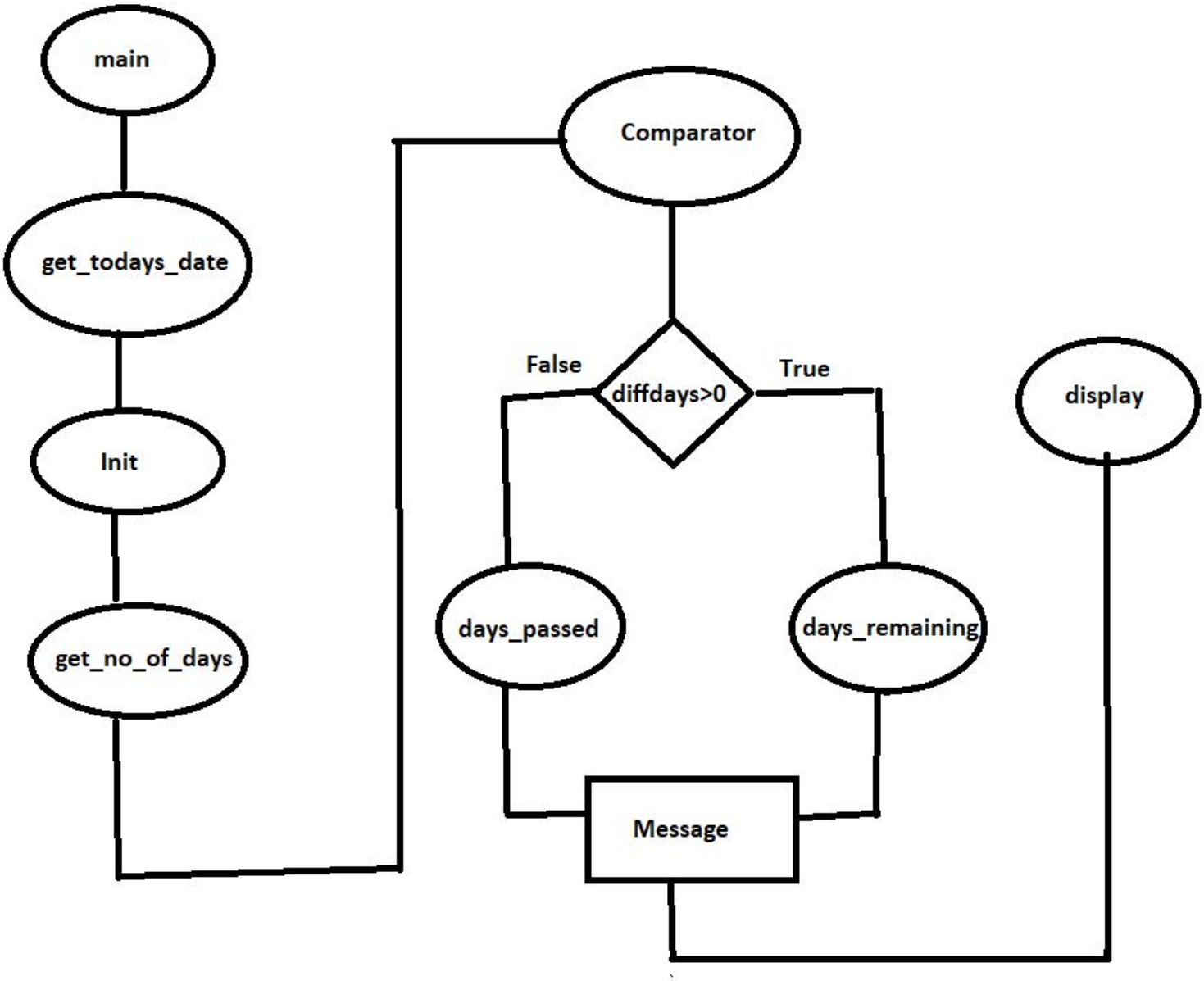
Use Case Diagram: -



Class Diagram: -



Flowchart


main
get_todays_date
Init
get_no_of_days
Comparator
False
diffdays>0
True
days_passed
days_remaining
Message
display

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Software Requirements Specification: -

1.Functional Requirements: -

->__init__():- Initializer method or Constructor in the BirthdayReminderApp class used to initialize the values of the instance variables during object creation.

->get_no_of_days():-Method in the BirthdayReminderApp that returns the number of days remaining between the Current date and the Birth Date.

->get_todays_date():-Method in the driver class that gets the Current date from the system

->days_remaining(Difference_in_days):- Method in the BirthdayReminderApp that sends a message if the User's Birthday is yet to come int the current year.

->days_passed(Differnce_in_days):- Method in the BirthdayReminderApp that sends a message if the User's Birthday has already passed in the current year.

->Comparator (Days): -A Method in the BirthdayReminderApp that compares whether the birthday is in the upcoming dates or has already passed and returns a reminder message accordingly.

->Display (): - A Simple display method in driver class that is supposed to display the Reminder message to the user.

->main (): -It is the driver function that is responsible for calling the BirthdayReminderApp class object and performing all the operations.

2.Non-Functional Requirements: -

->Performance: - The System has to be designed in such a manner that it Accomplishes the objectives efficiently and delivers the Results to the user in time.

->Availability: - The System is available to all the users in a standalone environment.

->Capacity: - The System supports one user at a time

-> Environmental Requirement: - The system works on all machines installed with Python 3.7 or above.