**Milestone 3 & 4**

**Calculator**

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# Calculator Features:

-Our calculator implements the 3 basic operations (+,-,x)

-When the user presses the equal sign the answer is displayed on the line below.

-After displaying the result the \* button is used to clear the current lcd.

-We handled operations that have a negative result.

-We handled that when the user presses a long press on a button it only write once to the lcd.

- After the user presses the equal and the result is displayed the user cannot write anything beside the result.  
-We also handled the memory part, as the user can use the current result and operate on it again by pressing the # button which saves the result to a variable ANS which can be operated on afterwards.

- The user can switch to the contact list by holding the “#” for more than one second.

RTC Features:

We used the two rows of the LCD to display the Date and time , Date is displayed in the first row as ( dd/mm/yyyy) and Time is displayed in the second row as (hh:mm:ss).

-The user can switch to the calculator by pressing “#”.

Contact List Features:

-User can write a name with a maximum number of 14 character.

-User can write a telephone number with a maximum number of 14 digit.

-User can move the cursor right by pressing “A” on the keypad.

- User can move the cursor left by pressing “B” on the keypad.

-User can save the data entered by pressing “C”.

-User can load all the data entered before by pressing “D”.

-User can create a new contact by clicking “\*”.

-We handled that the user must enter data any data to save

-We handled that is the user wants to load data and the memory is empty a message will appear saying that there are no contacts found.

-The user can switch to the RTC by pressing “#”.