

Digital Alarm Clock

Module-Wise-Submission



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Group- 22

FIRST SUBMISSION

**Functional Requirements and our Solution**

1. Set Current time.
   1. I :-- { Resetting Time: Option for Reset Time.   
       Choosing Time: Option for Increasing and decreasing Numbers }
   2. D :-- {Reset: Remove the Current time   
       Set Time: Set Time to User INPUT and display. }
2. List the existing Alarms.
   1. I :-- {Request AT : Sending a request to copy the alarm details in memory to D  
       Request D : Request to get data from AT and display. }
   2. AT :-- { Store Alarm : Allocate space to store alarm list.

Fetch Data to D: Fetch Alarm List to D according to request. }

* 1. D :-- { Able to show the Output from AC accordance with request from I.}

1. Modify or Set New Alarm.
   1. I :-- { Mode Change : Output a value to change the mode according to button   
       Change Around Options : output a value to change around options

Selection : Output a value to allow selection.

* + 1. Able to select from existing Alarms in AC
    2. Selecting around {Change: [Time, Tone, reset, save] , Delete}
  1. AC
     1. Save or Delete alarm according to request from Input… Confirm Message to display
     2. Give Instruction to AS and D to display and sound alarm at particular time.
  2. D
     1. Display Inputs during modification and confirmation messages.
     2. Include Functionalities for Options

1. Factory reset
   1. I 🡪 Button
   2. AC 🡪 Delete stored alarms
   3. D 🡪 Reset time to 12:00
2. Set one alarm. And blink LED at the time of alarm.
3. Set current time and display It.
4. Buttons to select Alarm Sound.
5. Stop Alarm.
6. Snooze.
7. Defining Formats to time…

(fetch time and )

1. 0 -> 9 Numbers
2. Reset
3. Alarm
4. Time Selection
   1. Repeat Selection
   2. Tone Selection
   3. Reset
5. Time Reset

**+ Selection.**

**+UP/DOWN**

**+ Changing Option.**