

Digital Alarm Clock

Module-Wise-Submission



April 7, 2021

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. Buttons to select Alarm Sound.
3. Stop Alarm.
4. Snooze.
5. 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