simulate and Demonstrate

In our clock have power regulated unit for regulate the input voltage to 5v, 16x2 lcd display for display the time and operation which user make in operating mode. it can be change contrast of the display through this potentiometer. Led light up clearly shows device in setting mode. We include applying circuit and speaker to produce alarm tone sound in the alarm time.it can be control the volume of the speaker through this potentiometer. We used six push up buttons for the operations snooze, select, return, up, down and reset accordingly and we include one switch for ON/OFF the clock. It can reset all setting to default from the reset button.

In the operation just after ON the device it displays the start-up message and then it displays the current time and date in the normal mode. User can go to the setting mode with the pressing of the select button. In the main menu contain three sub settings (date/ time, alarm setting and clock mode). It can change and set the current date and time through Date/Time selection separately. User can create alarm, Edit/delete the alarms which are already created existing alarm and delete all alarm through the selection of alarm setting. User can set only five alarms in active. Each alarm has five attributes (Name, Alarm Time, Tone selection, Repeat mode). We used five pre-defined names for alarm name. it can be assigning any names for any alarm through switching in alarm creation or editing phase. Like that, we used three pre-defined tones for tone selection. Through the clock mode selection User can change displaying time format in-between 24 and 12.

If the clock has defined active alarm. when an alarm time come it will go to alarm mode automatically and ring the correct alarm. If user pressed snooze button while ringing alarm automatically reset that alarm after snoozed time duration. Until stop it will continue. The alarm would stop if we pressed select button while ringing or end the alarm tone ringing without snooze press. After the alarm stop, alarm will reset or deactivate according to the repeat mode of that alarm.