Digital Air Condition screen

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| **Testing type** | **ID** | **Req**  **No.** | **Test Scenario** | **Expected Result** | **Actual Result** | **Status** |
| **Unit testing** | **T\_0** |  | 1- Connect the push button to one pin of microcontroller .  2- Use the API of the button  3- Use DIO API to out 5v if the button is pressed.  4- Connect Led to test if the button working well or not. | LED is ON | Successfully ON | passed |
| **Unit testing** | T\_1 |  | 1- Connect the LCD to the microcontroller.  2- Use the API of the LCD.  3- Display word on the LCD. | Word is displayed | Successfully displayed | passed |
| **Unit testing** | T\_2 |  | 1-Write to EEPROM in a specific address  2-Turn off the MCU  3- Read from the same address in the EEPROM | The written data is the same as the read data | Successfully  Read and write | Passed |
| **Component Testing** | T\_3 |  | 1- Connect the LCD to its pins in microcontroller.  2- Connect the button to its pin in microcontroller.  3- Check if the LCD displays temperature is increased | Display temperature is increased | Successfully displayed | passed |
| **Component Testing** | T\_4 |  | 1- Connect the LCD to its pins in microcontroller.  2- Connect the button to its pin in microcontroller.  3- Check if the LCD displays temperature is decreased | Display temperature is decreased | Successfully displayed | Passed |
| **Component Testing** | T\_5 |  | 1- Connect the LCD to its pins in microcontroller.  2- Connect the button to its pin in microcontroller.  3- Check if the LCD displays fan speed is increased | Display fan speed is increased | Successfully displayed | Passed |
| **Component Testing** | T\_6 |  | 1- Connect the LCD to its pins in microcontroller.  2- Connect the button to its pin in microcontroller.  3- Check if the LCD displays fan speed is decreased. | Display fan speed is decreased | Successfully displayed | passed |
| **Component Testing** | T\_7 |  | 1- Connect the LCD to its pins in microcontroller.  2- Connect the button to its pin in microcontroller.  3- Check if the LCD displays the air condition is turned on. | displays the air condition is turned on | Successfully displayed | passed |
| **Component Testing** | T\_8 |  | 1- Connect the LCD to its pins in microcontroller.  2- Connect the button to its pin in microcontroller.  3- Check if the LCD displays the air condition is turned off. | displays the air condition is turned off | Successfully displayed | passed |
| **Integration**  **testing** | T\_9 |  | 1- Connect the LCD to its pins in microcontroller.  2- Connect the buttons to its pins in microcontroller.  3- Check if the LCD displays the correct functionality when we press specific button |  |  | Not Tested yet |