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| **Requirement ID** | **Questionnaire** | **Technical** | **SIQ ID** |
| R-00-1 | LCD | LCD\_VoidDisplay();  It doesn't take any input argument and doesn't return any data and you must call it in initialize lcd | 1 |
| R-00-2 | Push Button type | Bouncing\_u8Bounce(u8 SwPin);  Deal with bouncing of switch It take input argument of pin that connect to switch and return ok when take right number of pin else return error | 2 |
| R-00-3 | Push Button functionality | D:\embedded iti\software engineer\diagram.png  When system open LCD will display the value of Temperature and Speed Fan. "Temperature= "  "Speed Fan = "  1-Selector\_Button();  Doesn't take any argument and don’t return anything, when user push that Selector button  Will display on LCD  First line "🡪1- fan speed "  Second line "2-Temperature"  When pressed Increase arrow down on temperature and will call Function called Increase\_Button(); function doesn’t take any argument and don’t return then when pressed Decrease will call Function called decrease\_Button(); function doesn’t take any argument and don’t return arrow will be on fan speed and so on.  And when user want to enter modes, pressed on selector again will call Function called Select\_Modes(); function doesn’t take any argument and don’t return then will enter the mode that arrow stop on. And display the mode that arrow stop on it.  Example:  First line "Temperature=23 "  Second line " "  When Pressed Increase button Function Increase\_Mode(); will called This function doesn’t take any argument and don’t return then increase temperature and When Pressed Decrease button Function Decrease\_Mode(); will called This function doesn’t take any argument and don’t return then Decrease temperature and the same for fan speed mode .  When user want to out from mode ,pressed ESC  Button and called Function Out\_Mode(); This function doesn’t take any argument or don’t return.  When user want to shut down system will pressed ESC button again and function TurnOff(); will called This function doesn’t take any argument or return.  When user want to open the system will pressed ESC button and function Turnon(); called system open. |  |
| R-00-5 | Default value when making reset | Save\_Last\_Read();  This function doesn’t take any argument and don’t return.  Will save reading of temperature and fan speed in eeprom when turn off the system and when system turned on will called function ValueFromEeprom(); This function doesn’t take any argument and don’t return. It will take value of fan speed and temperature and display it on LCD. | 4 |