The LCD is written in bytes starting from the left. A row of the LCD has 128 bytes. Each letter requires 5 such bytes which are vertically placed. The function lcd\_write\_string() is used to write the local buffer of the LCD. Then we push the local buffer data to the frame buffer of the LCD display. The function also allows to set the offset required while typing each string. The range of horizontal offset can range between 0-127 and the vertical offset range 0-3 corresponds to the four rows of LCD data bytes. If offset given is n, then the LCD is set with data starting from the byte numbered n.

Then the framebuffer is loaded with the local buffer values to display in the LCD.

Pictures of materials if needed……

Block Diagram

Flowchart

Function description (Refer code)