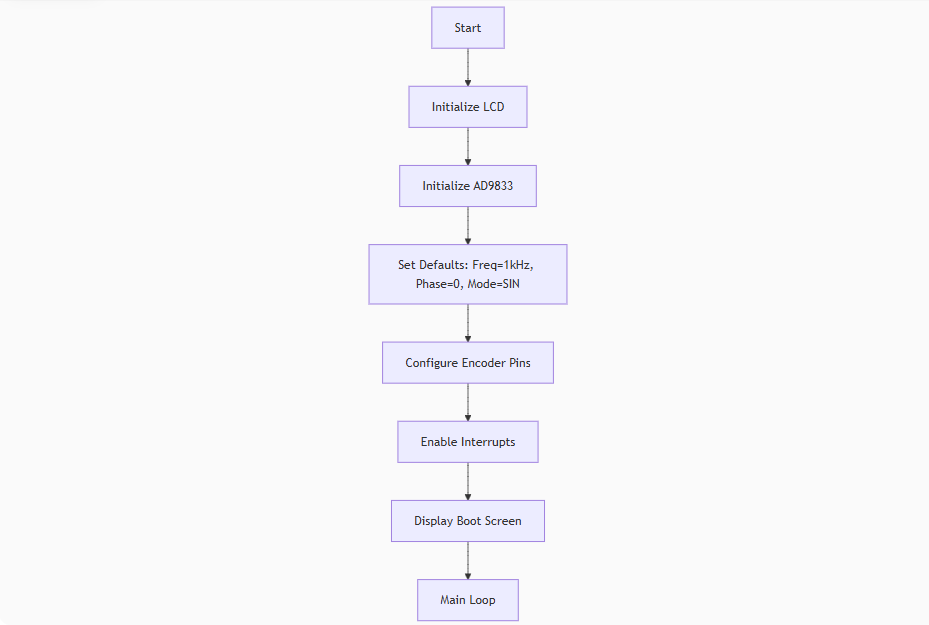
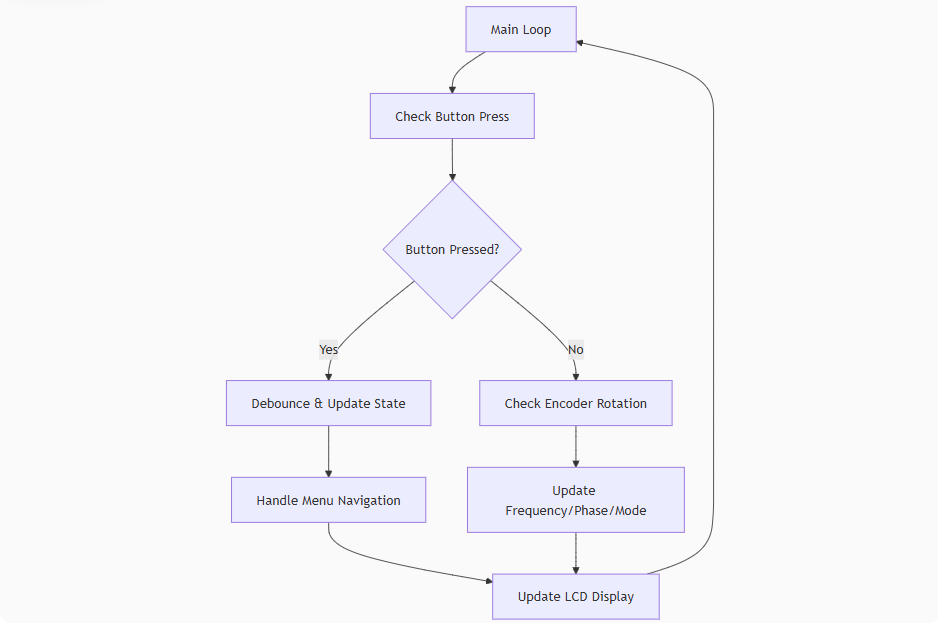
**1. System Initialization:**



**2. Main Program Loop**:

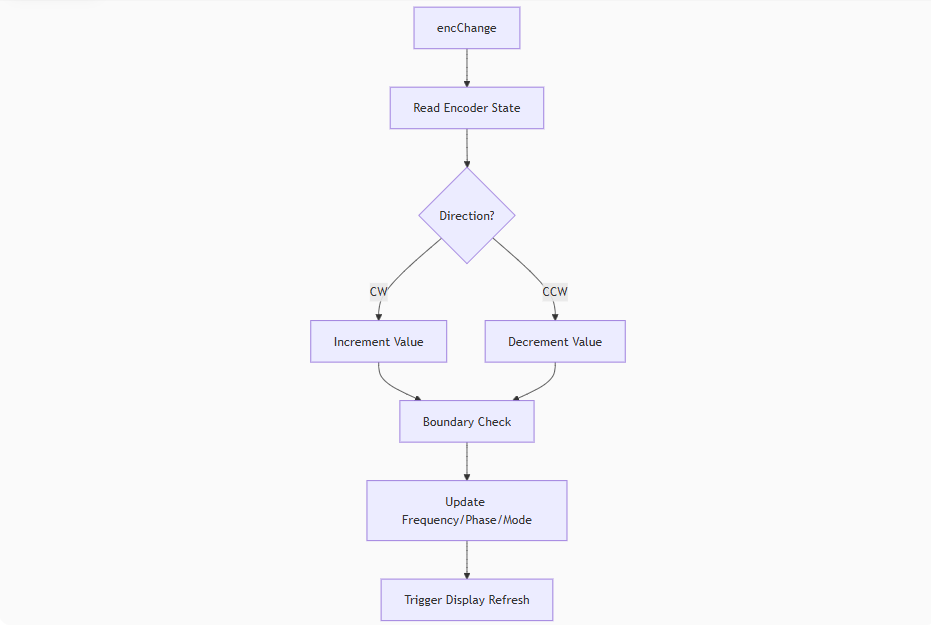


**3. Menu State Machine:**

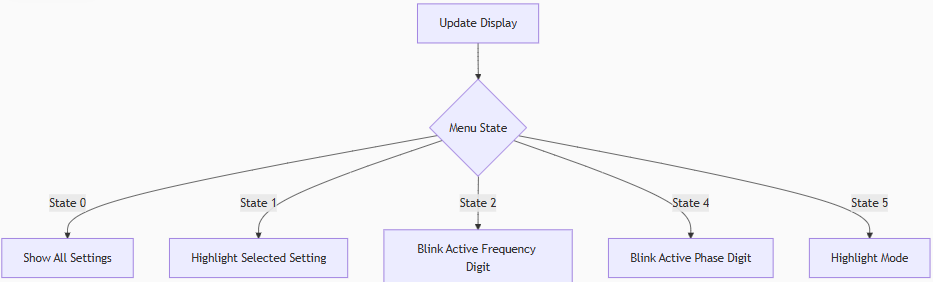
A diagram of a system

AI-generated content may be incorrect.

**4. Encoder Interrupt Handler**:



**5. LCD Display Logic**:



**6. AD9833 Control Flow**:

A diagram of a system

AI-generated content may be incorrect.