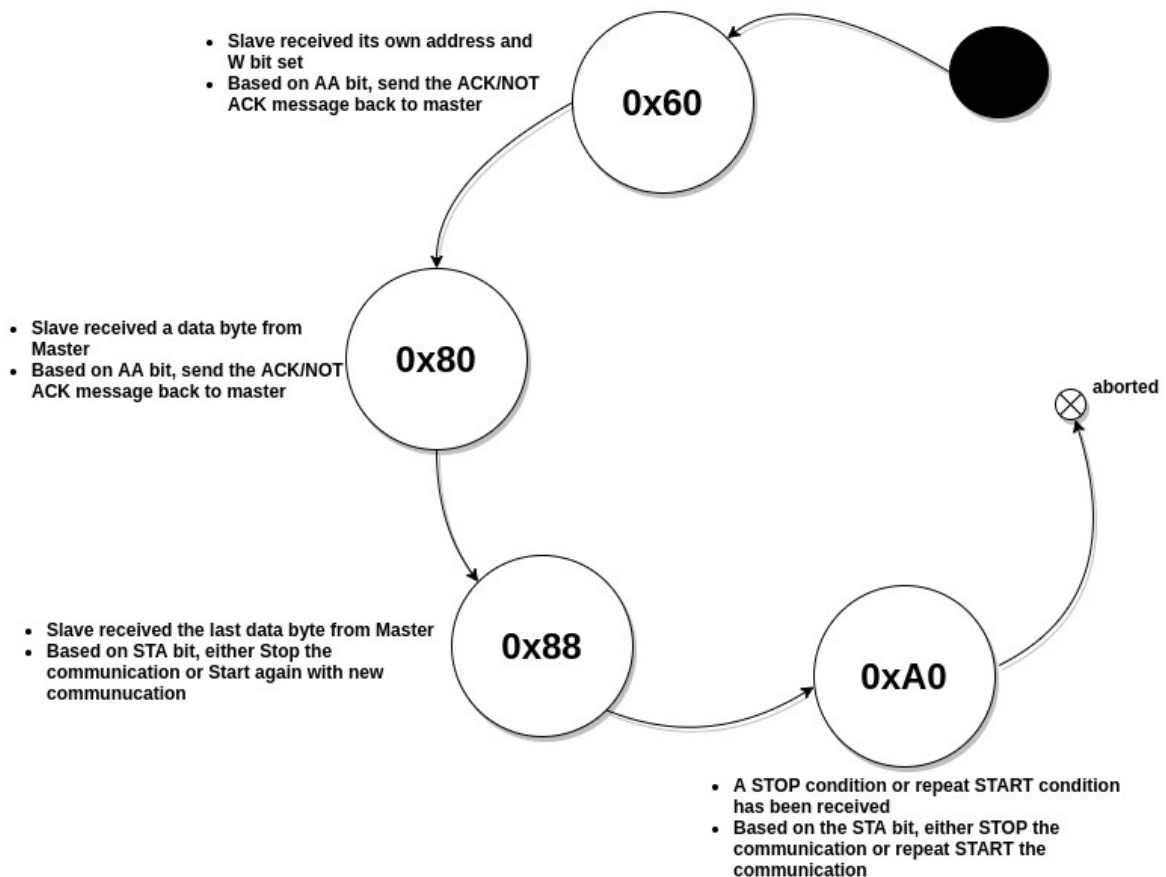


Group : LAB_GROUP_9 I2C State Diagram

Slave Receive Mode - State Table		
HW State	Why you got here?	Action to take
0x60	SLA+W Received from master ACK returned	Set AA bit Clear SI flag Set up Rx buffer for slave
0x80	Register address received	Send ACK Set AA bit Clear SI flag
0x80	Data received in I2DAT	Send ACK Copy data from I2DAT to Rx buffer of slave Clear SI flag
0x88	Data received in I2DAT (Last byte)	Send NACK Set AA bit Clear SI flag
0xA0	STOP received	Set AA bit Clear SI flag

Slave Receiver Mode



Group : LAB_GROUP_9 I2C State Diagram

Slave Transmit Mode - State Table		
HW State	Why you got here?	Action to take
0xA8	SLA+R Received from master	Load I2DAT with slave TX buffer value Set AA bit Clear SI flag Initialize slave TX data buffer
0xB8	Data byte from I2DAT transmitted ACK received	Load I2DAT with slave TX buffer value Set AA bit Clear SI flag
0xC0	Data byte from I2DAT transmitted NACK received	Set AA bit Clear SI flag
0xC8	Last data byte from I2DAT transmitted ACK received	Set AA bit Clear SI flag

Slave Transmitter Mode

