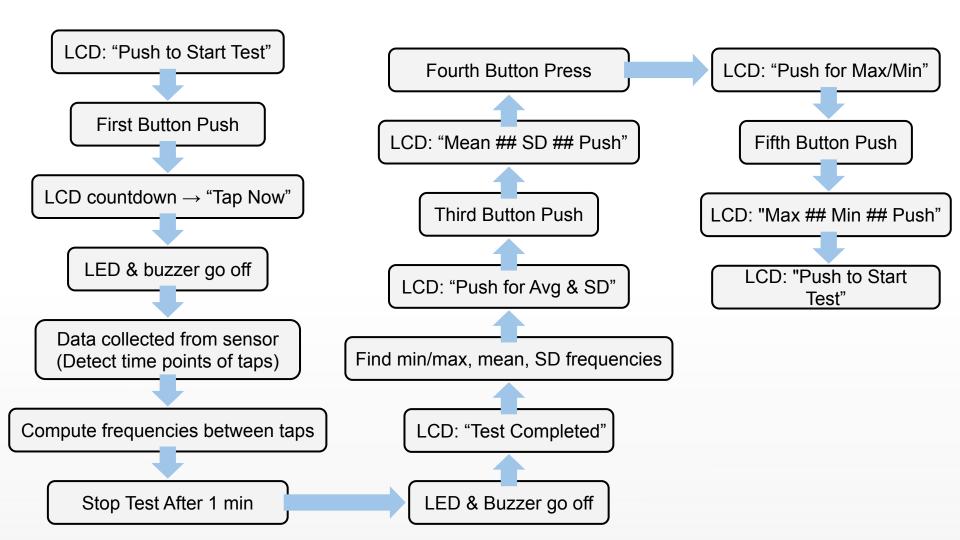
ENGI 301

Software Block Diagram

3/7/24 Gloria Ni



Classes

button:

wait_for_press- waits for button to be pressed is_pressed- determines whether button is pressed

buzzer:

<u>play</u>- plays noise <u>stop</u>- stops noise

led:

on- turn light on off- turn light off

display:

blank- turns off all LEDs countdown- display 5 second countdown text- update display with text data- update display with frequency data

sensor:

wait_for_tap- waits for tap
is_tapped- determines whether sensor is tapped
tap_times: stores a list of time points of all taps
since start of test
freq- stores a list of frequencies
analyze- compute mean, SD, max, min freq.
sim_times: simulate random values for testing
before implementing sensor