# CS 350 Project One

Chuke Rupert

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The prototype makes use of 3 modules and related peripherals: 1) UART2 to format/send data produced by the board; 2) GPIO to control the interrupt functions and buttons which allow the user to raise and lower the setpoint temperature, as well as the LED indicator simulating the heater being engaged; and 3) the I2C module connected to the thermometer peripheral. Connecting the thermostat to the cloud will require at least one more module to indicate/interpret where and how to send the data produced by the UART and an update to the scheduler to include how often to send the data to the cloud.

A diagram of a flowchart

Description automatically generated