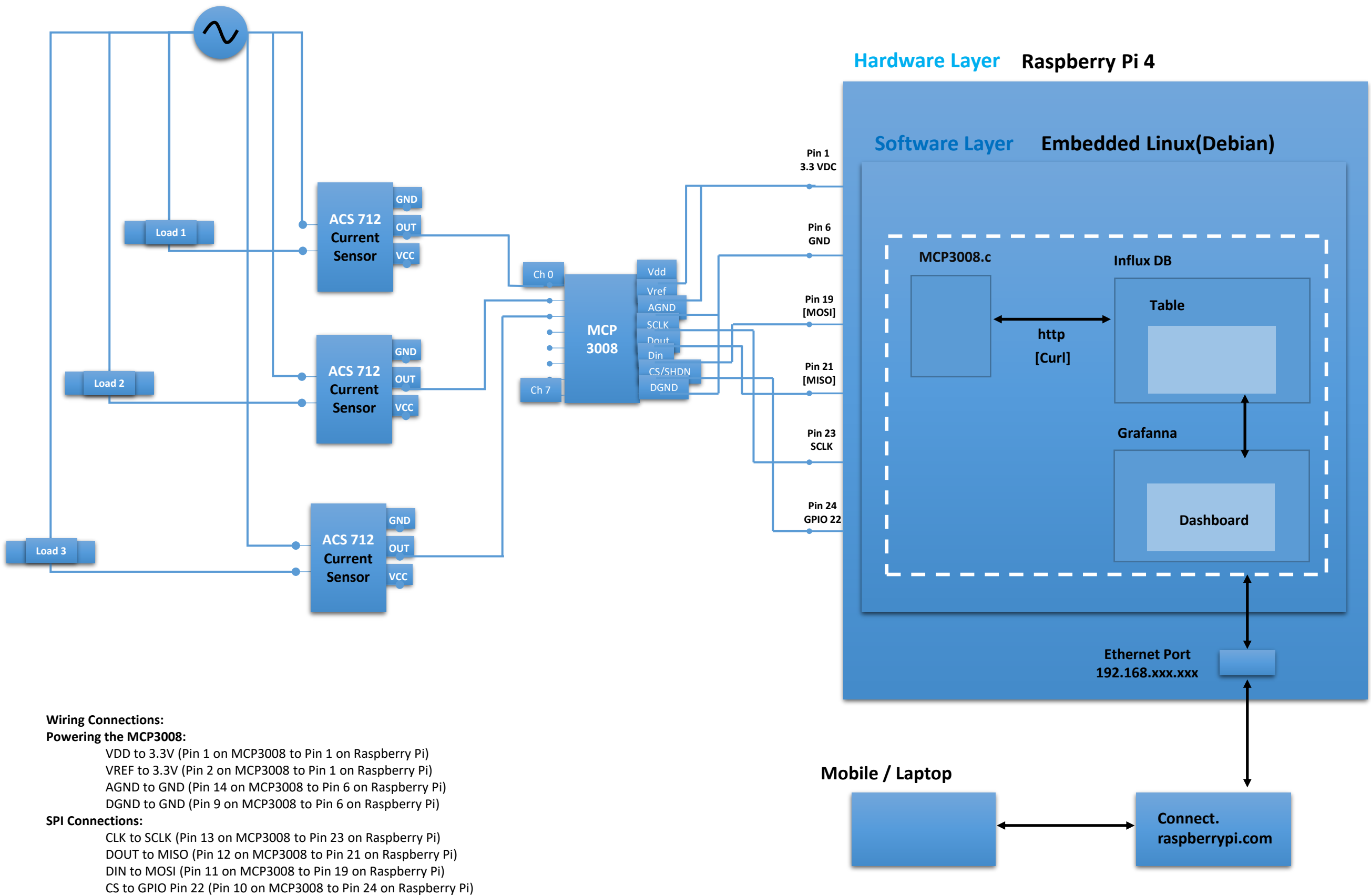


BITS SES Assignment 1 - Architecture



Wiring Connections:

Powering the MCP3008:

- VDD to 3.3V (Pin 1 on MCP3008 to Pin 1 on Raspberry Pi)
- VREF to 3.3V (Pin 2 on MCP3008 to Pin 1 on Raspberry Pi)
- AGND to GND (Pin 14 on MCP3008 to Pin 6 on Raspberry Pi)
- DGND to GND (Pin 9 on MCP3008 to Pin 6 on Raspberry Pi)

SPI Connections:

- CLK to SCLK (Pin 13 on MCP3008 to Pin 23 on Raspberry Pi)
- DOUT to MISO (Pin 12 on MCP3008 to Pin 21 on Raspberry Pi)
- DIN to MOSI (Pin 11 on MCP3008 to Pin 19 on Raspberry Pi)
- CS to GPIO Pin 22 (Pin 10 on MCP3008 to Pin 24 on Raspberry Pi)