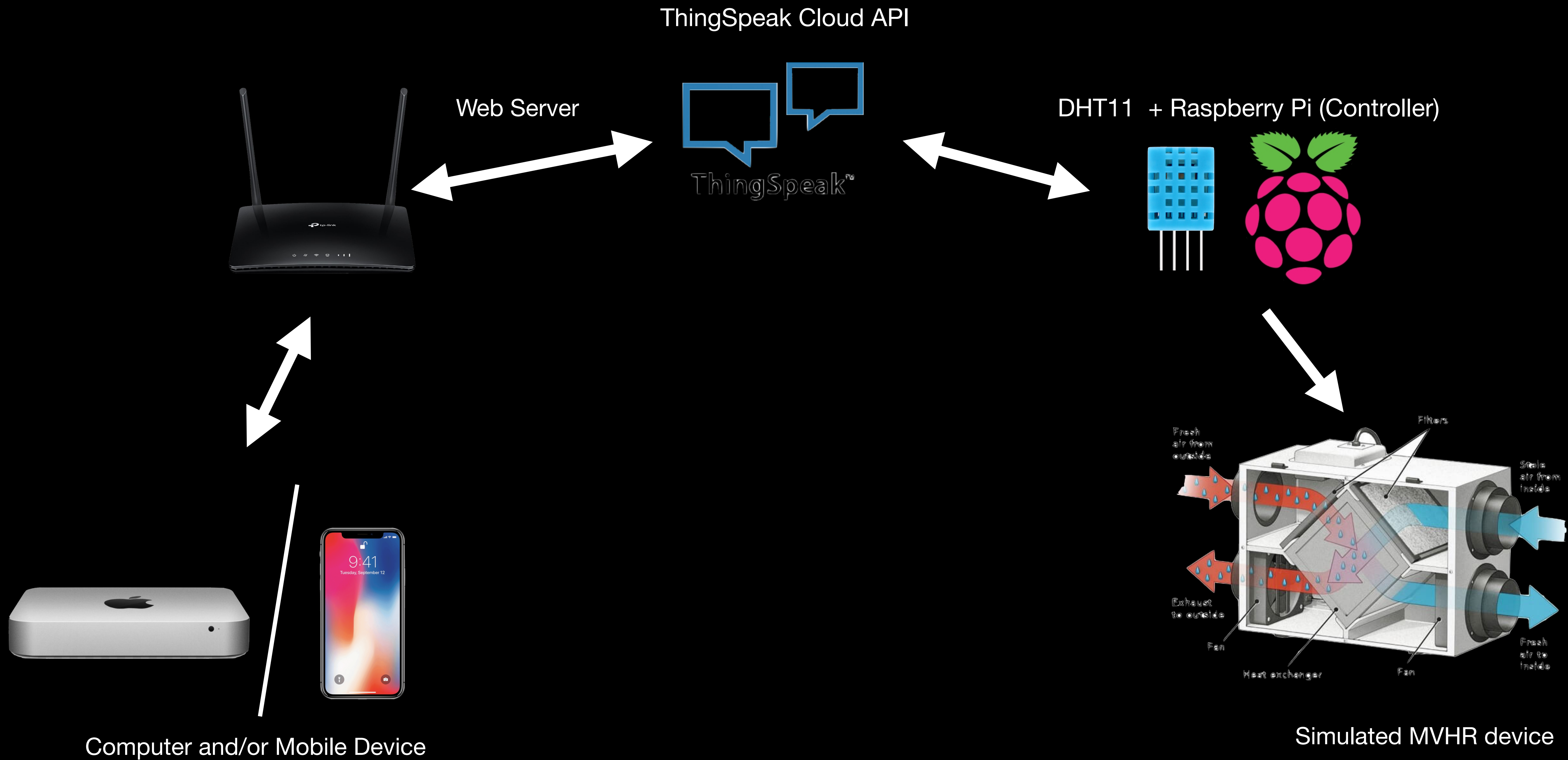


IOT Smart Home Project

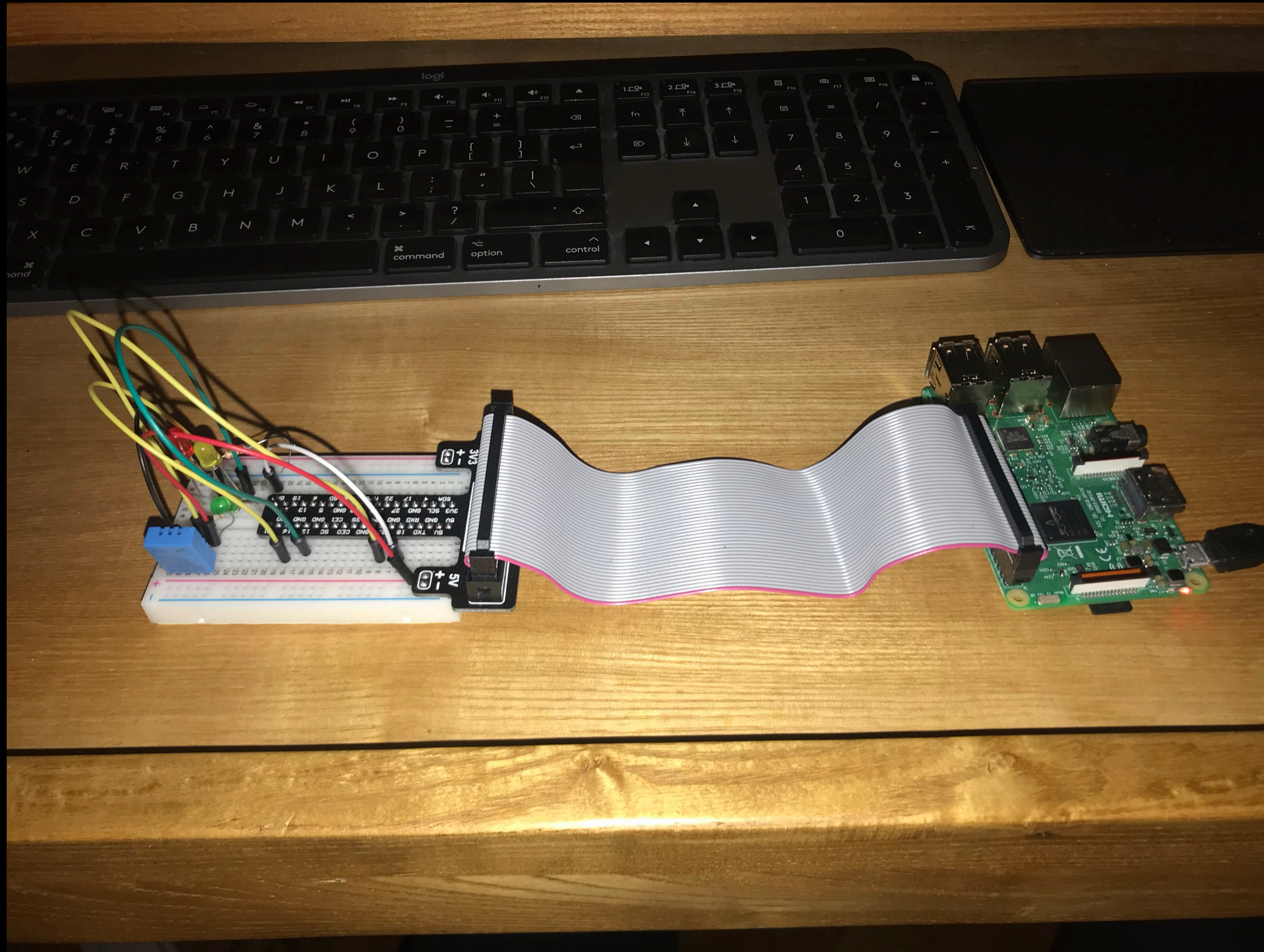
Student Name: Tomás Ó Dálaigh
Student Number: 20095582

Links

- UI LINK: <https://iot-ui-final.glitch.me/>
- Thingspeak: <https://thingspeak.com/channels/1614323>



My Raspberry Pi



Lights	Temperature	Humidity	MVHR Status
All lights off	Machine is OFF	Machine is OFF	OFF
All lights off	Less than 16	Humidity >= 61	On
Green On	Temperature >= 16	>= 61	On
Orange On	>= 18 and <=21	>= 61	On
Red On	>= 22 and <=24	>= 61	On
Flashing Red Light	>= 25	>= 61	On
Orange + Green Light	Less than 16	Humidity <= 61	On
Red + Green Light	Temperature >= 16	<=60	On
Orange + Red Light	>= 18 and <=21	<=60	On
All lights on	>= 22 and <=24	<=60	On
All lights Flashing	>= 25	<=60	On

Components	Use
Computer and/or Mobile Device	Used to view data and possibly edit the presets
Web Server	Used to allow all devices in chain to communicate allowing the system to send a receive data
DHT11 + WiFi ESPDHT11 + Raspberry Pi (Controller)	Temperature and Humidity with WIFI capabilities
Simulated MVHR device	Simulation of heat retention system with lights