A smarter home, A drier home

A Team 10.009 production

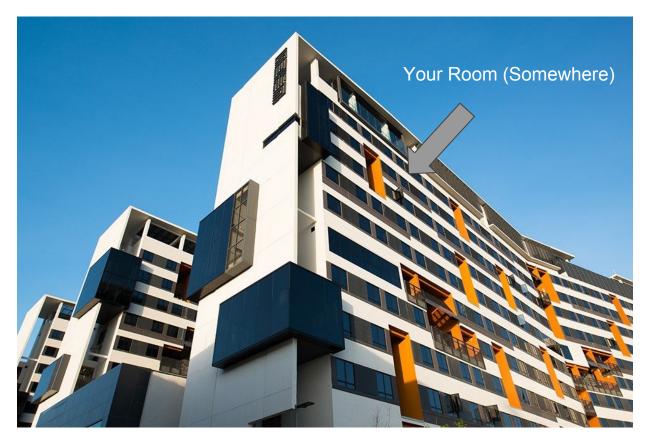


Background



Once upon a time...







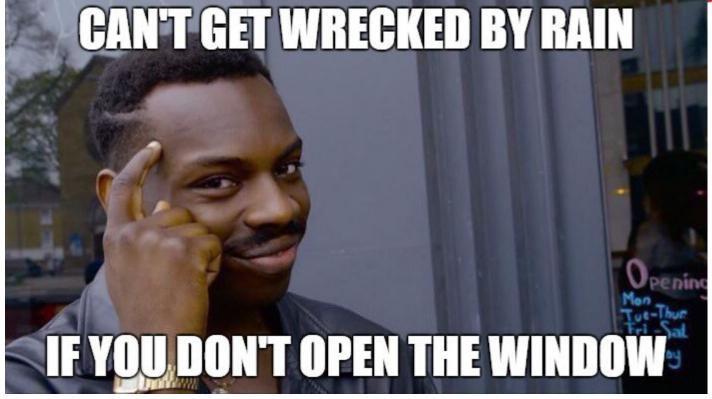


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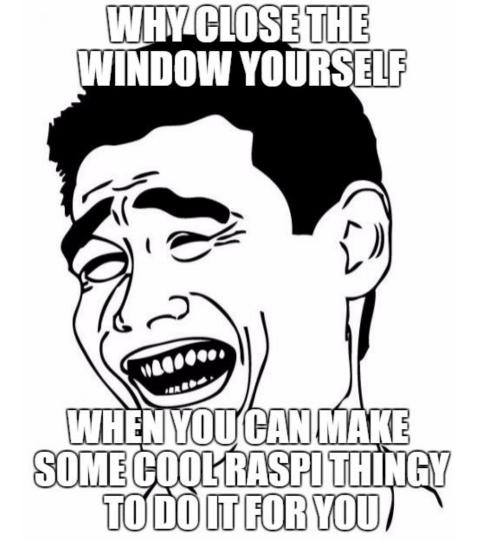
















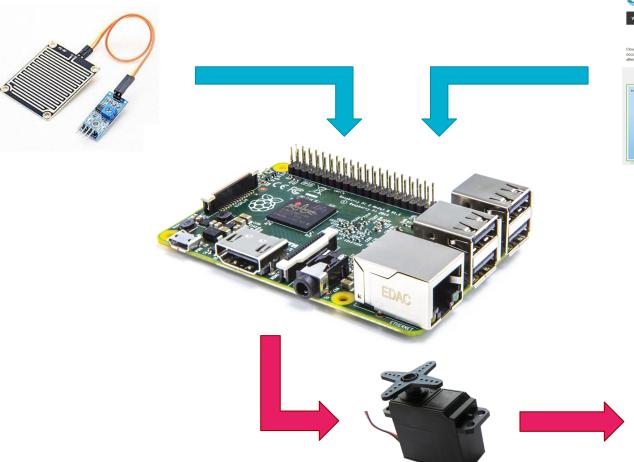
Concept







Implementation





www.weather.gov.sg







24-HOUR FORECAST

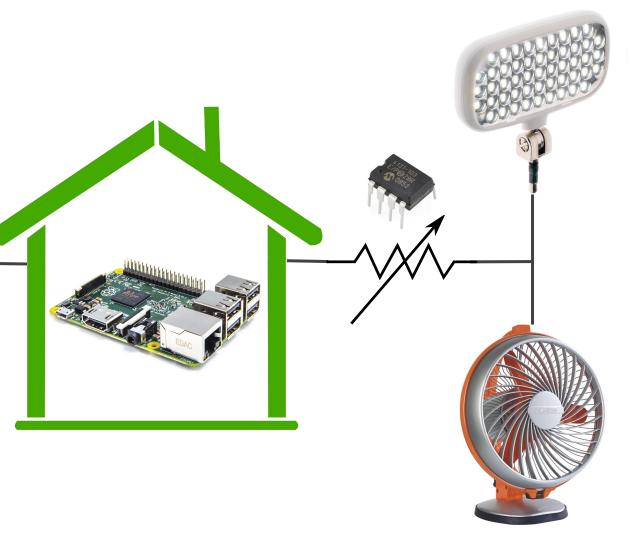
WEATHER WARNINGS AND ADVISORIES CLIMATE LEARN ABOUT MSS

Cloudy for the rest of today. For temorrow, cloudy with coccesional light to moderate rain in the morning and early afternoon.

11.00 pm to 1.00 am







Things we need...



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Rain Sensor (Real Time Information)
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Light Sensor (To implement Smart Home)

Servo Motor (The Hands)

1x Raspberry Pi (Heart of System)

Digital Potentiometer (For Light and Fan Control)

NEA Data on RAIN and WEATHER PATTERN / FORECASTS (Preempting)

Costs



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Rain Sensor $5
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Light Sensor \$10

Servo Motor \$10

Raspberry Pi FOC

Digital Potentiometer \$5

LED & Fan \$10

Acrylic Sheets \$10



Potential Impact





Remember that dream holiday you've always wanted to embark on?

You don't have to worry about returning to a puddle of mess.









Hostel walkways will be so much safer.



Toward Week 17

Further Development...



Programming in Python for respective Raspberry Pi sensors

Build Remote Controllable Web Interface capability on Raspberry Pi (Kivvvvvy)

Construct Scale Model of Smart Home with Window Slider using Servo Motor