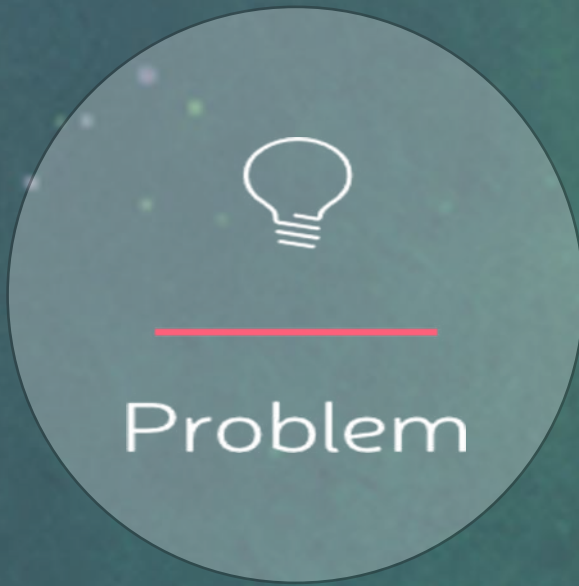
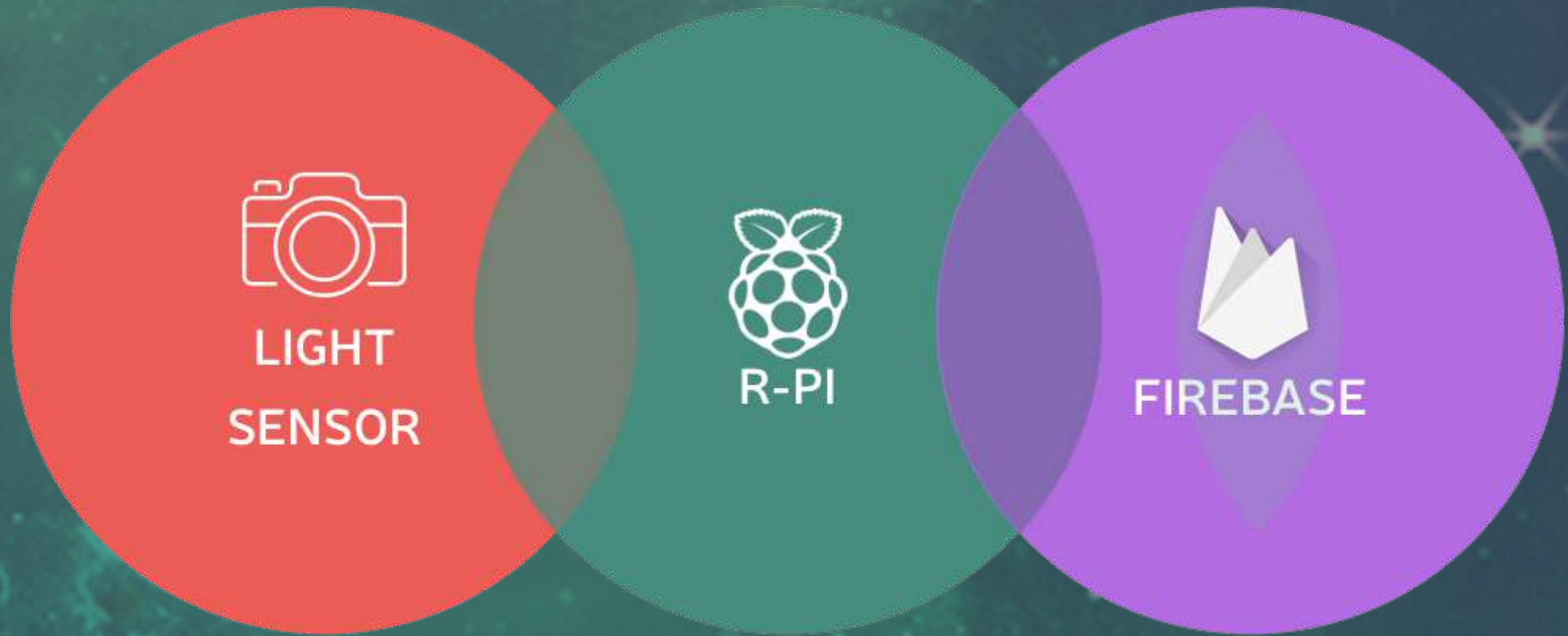


# WASHR



Problem

3 main components simultaneously working together to provide the user with the required information in real time



Information delivered via KIVY GUI



Solution

As part of the SUTD family, we noticed a problem which has been faced by many students, especially those who are staying on campus in which time was unnecessarily wasted during the process of doing laundry. Hence, this poses a pressing issue in the daily lives of the students.

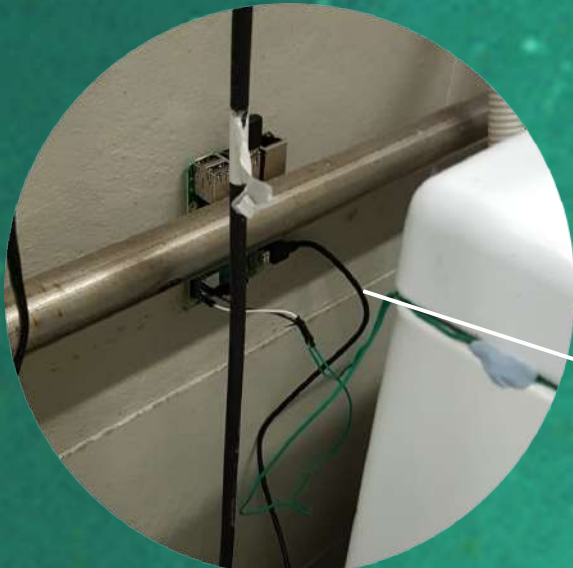
As our school is embarking on making the campus to be the playground of Smart Nation, as such, we came up with a solution to deal with the problem faced. We aim to design a program to enable users of the washing machine to get notification beforehand so as to decide the appropriate timings to do their laundry.



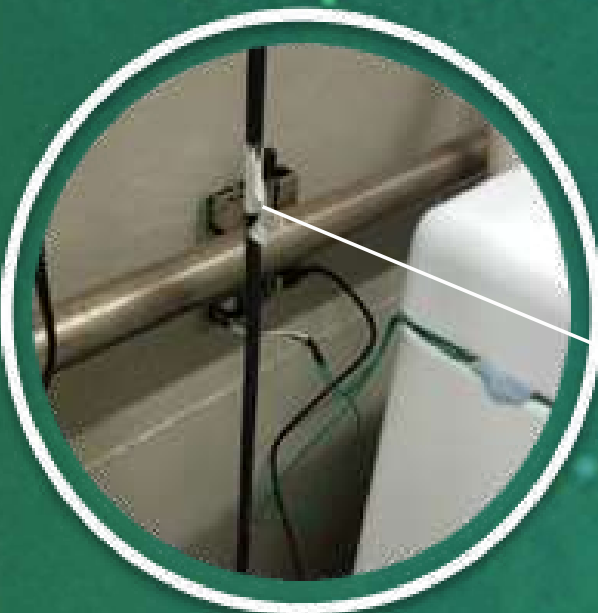
Data Setup



A LDR was positioned and aligned to the LED of the washing machine.



The wire was placed neatly along the side of the machine so as to prevent any misconnection.



The Raspberry Pi to collect the data of the usage and then uploaded to the firebase.



Future Works

Pressure Sensor



Due to budget constraints, we are unable to implement the pressure sensor as shown in the picture above. However, for future works, we hope to able to make use of a pressure sensor at the bottom of the washing machine so as to detect if any load is being placed into the machine. This will further enhance the reliability and accuracy of our program.