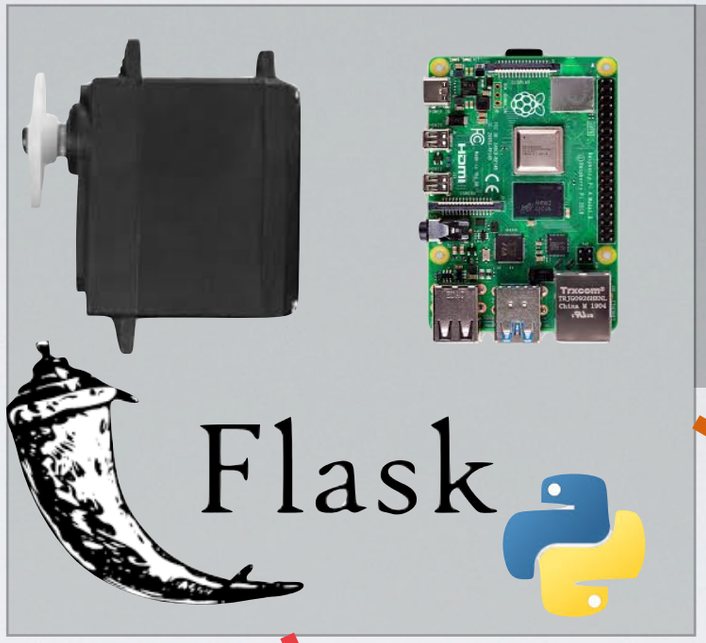
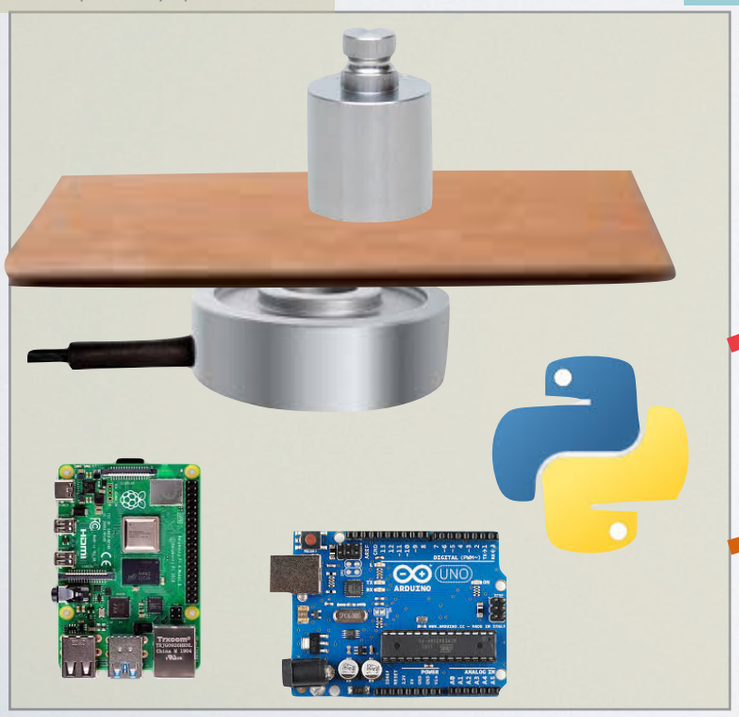
Slidy

1. The drawer will have two functions.

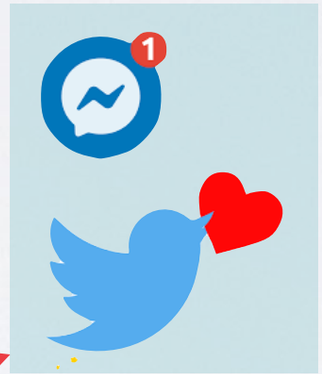
1.1 The first function is opening and closing the drawer with the help of a servo motor and the raspberry pi. With a library called FLASK the app can host a website on the local network where the user can interact with the lock.



1.2 The second function is sensing the weight with the help of a force sensor and a small plank (sole) that fits the inside of the drawer. The calibration of the force sensor will be done with the help of an arduino, and the communications will be done with the help of a raspberry pi.



3. Optional communication can be made using a twitter or Facebook api to notify a user when something has been added, taken out or the drawer was opened or closed.
An option to let the user control the lock can also be made.



2. The communication will be made to a website where the user can open and close the lock as well as see messages when something was placed in a drawer and taken out.