



OMNIBAG

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01 ABSTRACT

We all know that carrying a backpack is always important in loading essentials and we use it for work, travel, school, or any other activity.

Backpack originally helps us mobilize and protect our important stuff while walking or moving around the environments.

Nowadays, fashion-oriented people are sensitive to what they wear because they use fashion as a form of self-expression. They use backpack as universal accessory that elevates fashion style, but it is hard to match your backpack with many other different styles of fashion and backpacks from the premium brands are too expensive.

It sparked my curiosity what if the backpack can change colors and patterns just like chameleons .

The potential of backpack lies in materials that change state, or that are designed to have unusual properties, combined with electronic devices. With that in mind I envision what backpack of the future might look like, how does it work, and how does it react to other people.

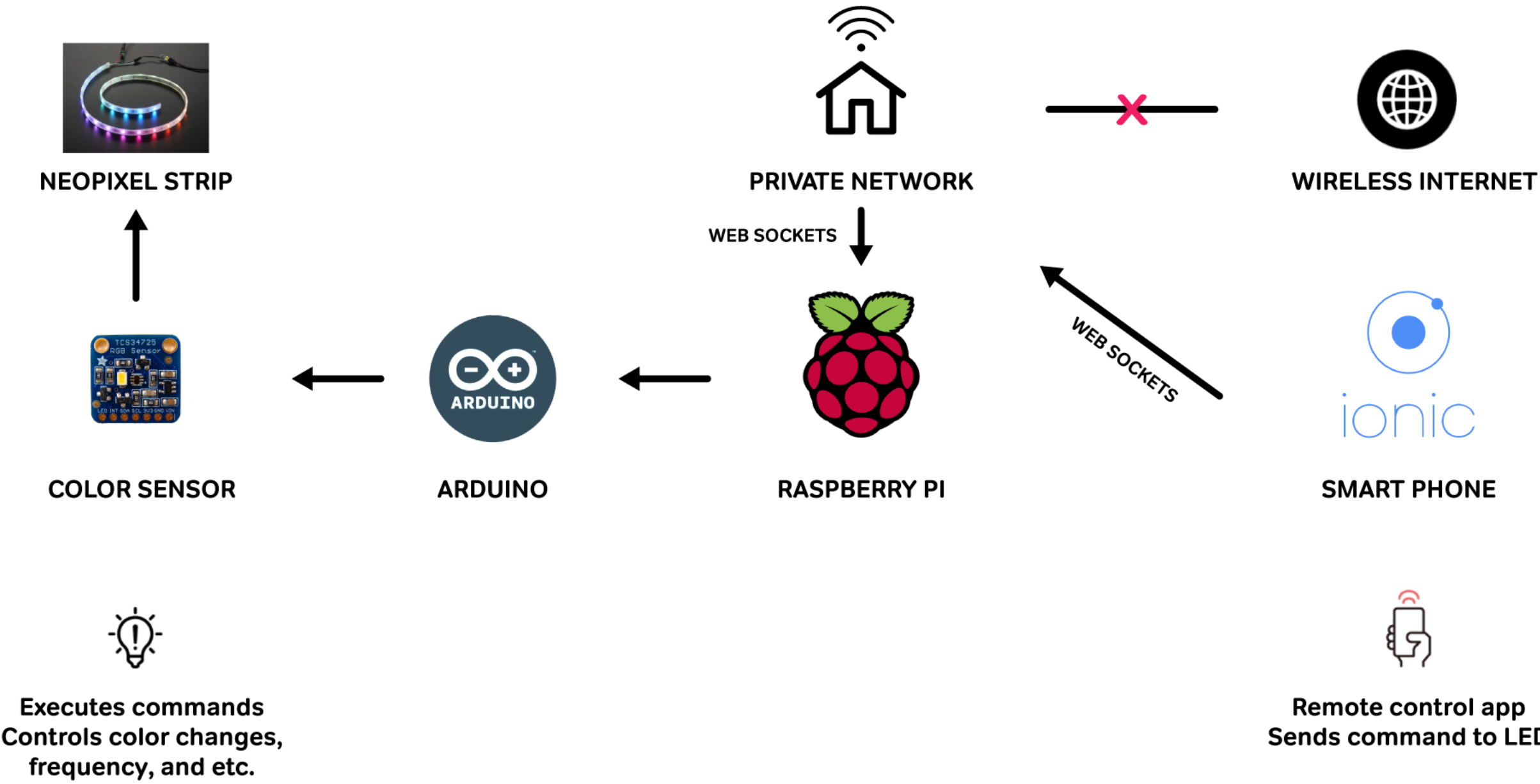
02 ELEVATOR PITCH

Omnibag is a smart backpack that can customize with changing colors, patterns, and pre-made designs by its connection to a smartphone or smartwatch. Omnibag is designed with innovative technology for people who want to be more expressive as an universal accessory.

Backpackers using this application whenever they want to customize their backpacks, able to apply premium brands patterns, get a recommendation which design of backpack best match their outfit, and specifically use it for any outdoor activity purposes.

Omnibag is truly an irreplaceable and sustainable product that will replace more than hundreds of bags.

03
OMNIBAG DIAGRAM



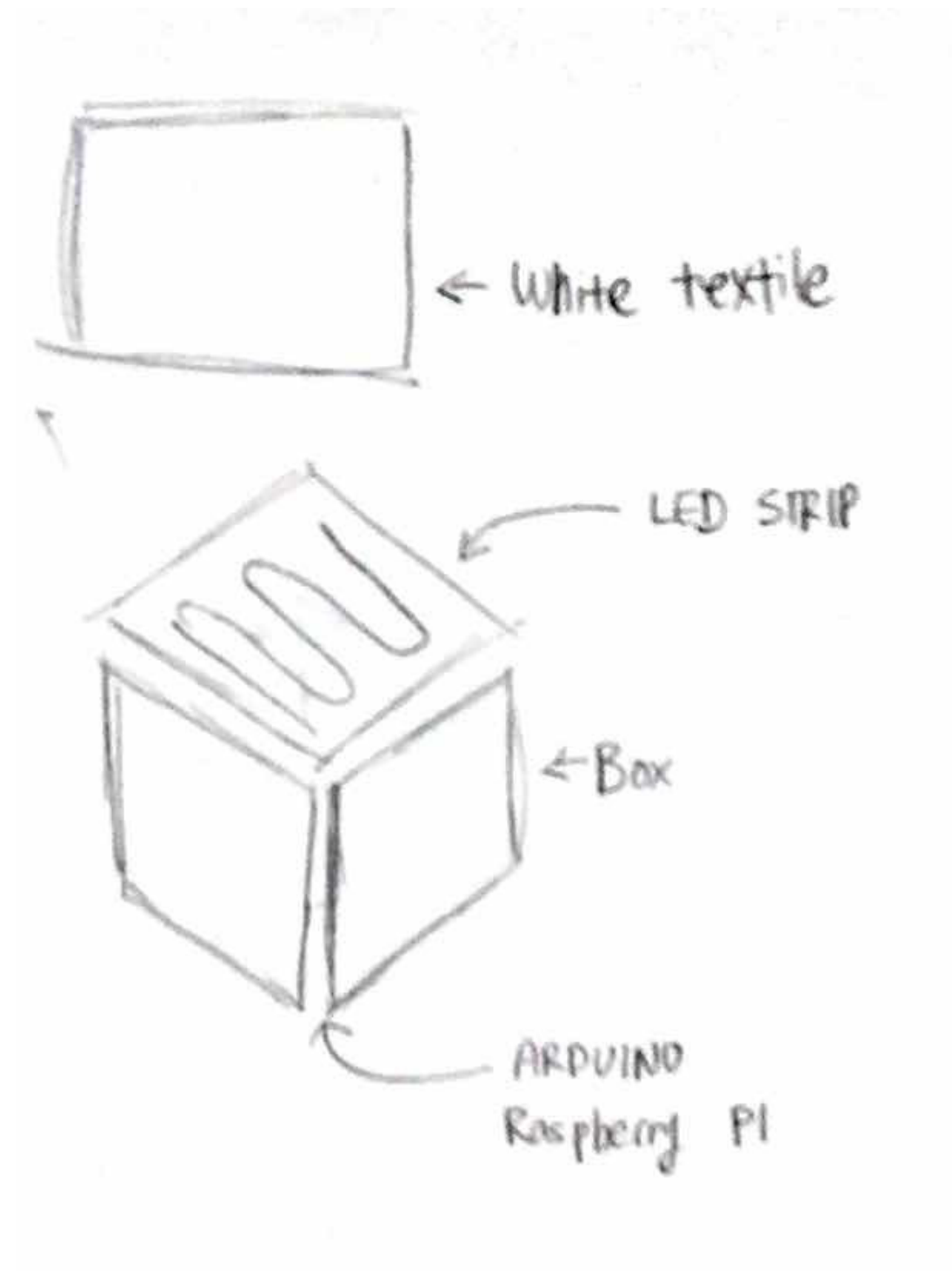
04 RESTRICTIONS

To customize omnibag, users must have both omnibag and smartphone because Omnibag requires bluetooth connection with smartphone and smartphone sends command to change color and pattern.

Omnibag prototype is established under the private network environment, therefore private network should be connected with smartphone and Raspberry pi.

This prototype also needs both Raspberry pi and Arduino because Raspberry pi supports connection with private network and arduino supports connection with color sensor.

05 PROTOTYPE SKETCH



06
BACKPACK DESIGN



07
BACKPACK DESIGN

