



WESTWOOD
PRIMARY SCHOOL

The Incredible 5

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Our Problem

In our school, we have two levels sharing the same recess in a span of 30 minutes, hence the queue for buying food gets longer. Additionally, there are some days when we are dismissed slightly late for recess.

Therefore, students are unable to eat properly and end up losing focus due to the lack of energy. A lot of students have complained about not having enough time to eat properly. So we came up with the perfect idea!



our Research Interview (Survey : 30 pupils)

Among 30 pupils,

- Recess Time too short: 12 pupils
- Recess Time just nice: 18 pupils

Based on the data received:

- Average time taken for a pupil to buy food - 8 mins

our Research Interview (Survey : 30 pupils)

Among 30 pupils

- Queue is too long: 26 pupils
- Queue is not long: 4 pupils

what would they do to get food faster?

- students pay others to cut queue in front of them.
- Ask others to help them buy food

Our Research Interview (Survey : 30 pupils)

Among 30 pupils

- Unable to finish their food in time: 3 pupils
- Able to finish their food in time: 27 pupils

what would they do with the leftover food?

- They throw them away
- They will stuff the food in their mouth
- Eat the food during snack break

Solution

We came up with a pre-order system for recess and the procedure will be as follows:

Pupils use tablet to order food in class and pay using Ezlink card



orders are sent to stall owners



Stall owners prepare food accordingly



Respective locker will open and pupils can collect their food.



Pupils will key in the order number on the vending machine.



Pupils will proceed to the vending machine in front of the stalls during recess

Pupils will be able to eat properly instead of wasting time to queue for food due to lack of time.

Inspiration for Solution

we got this idea as we have seen in hawker centre and below hdb blocks that vending machine dispenses food quickly. we also wanted our canteen food to be dispensed quickly so we decided to make a vending machine.

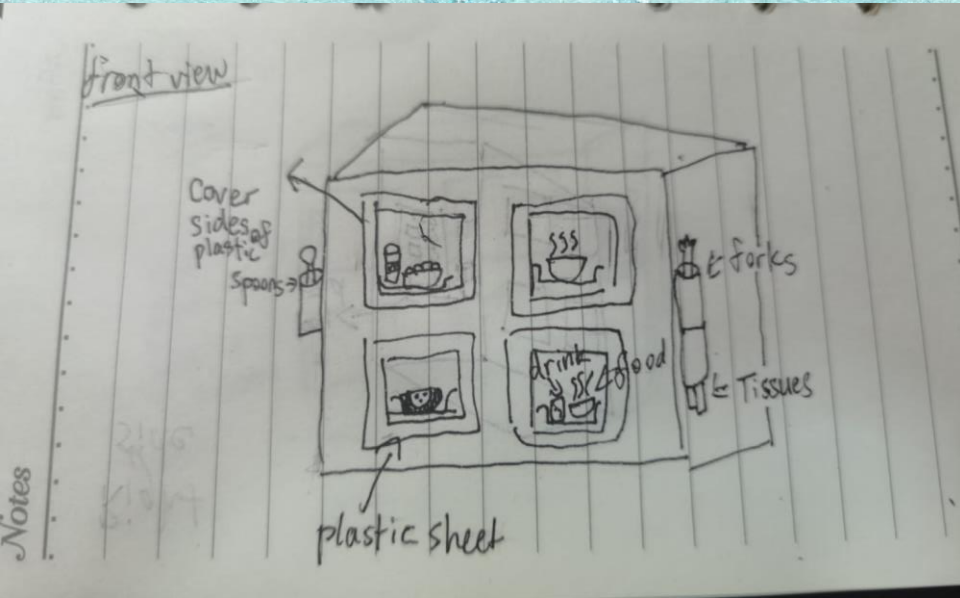


why vending Machine?

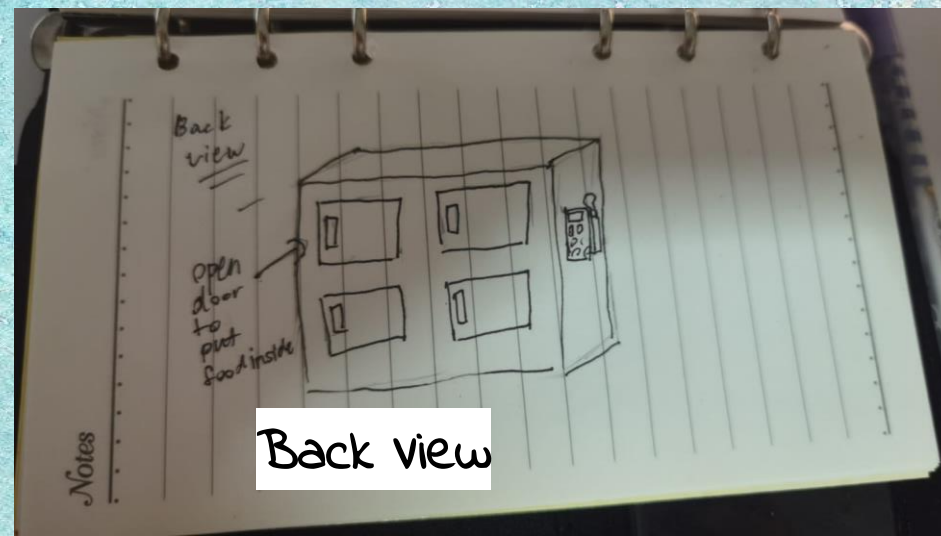
vending Machines are known for their speed in dispensing food. So we thought of using that idea of a vending machine into our own version of the vending machine. we have made a prototype of vending machine using the SCAMPER model.

- S**ubstitute - To make the prototype, we used cardboard as a substitute for metal to make the foundation of the prototype
- C**ombine - Combined the design of a locker and a vending machine
- A**dapt - Adapted the design based on the needs of the pupils
- M**odify - Modified the vending machine and added a cutlery space for spoon, fork and tissue
- P**urpose - To reduce the waiting time for students during recess, and increase time to eat and interact with their friends
- E**liminate - Eliminate many parts that are not suitable and to make it into a better version through the process
- R**earrange - Rearrange the various parts of the vending machine to suit the needs of our school pupils.

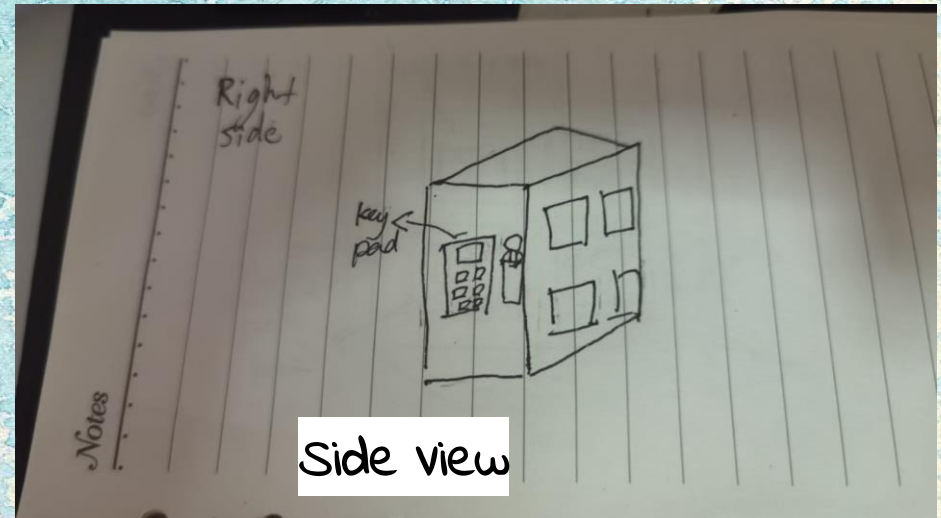
Sketch of the Product



Front view



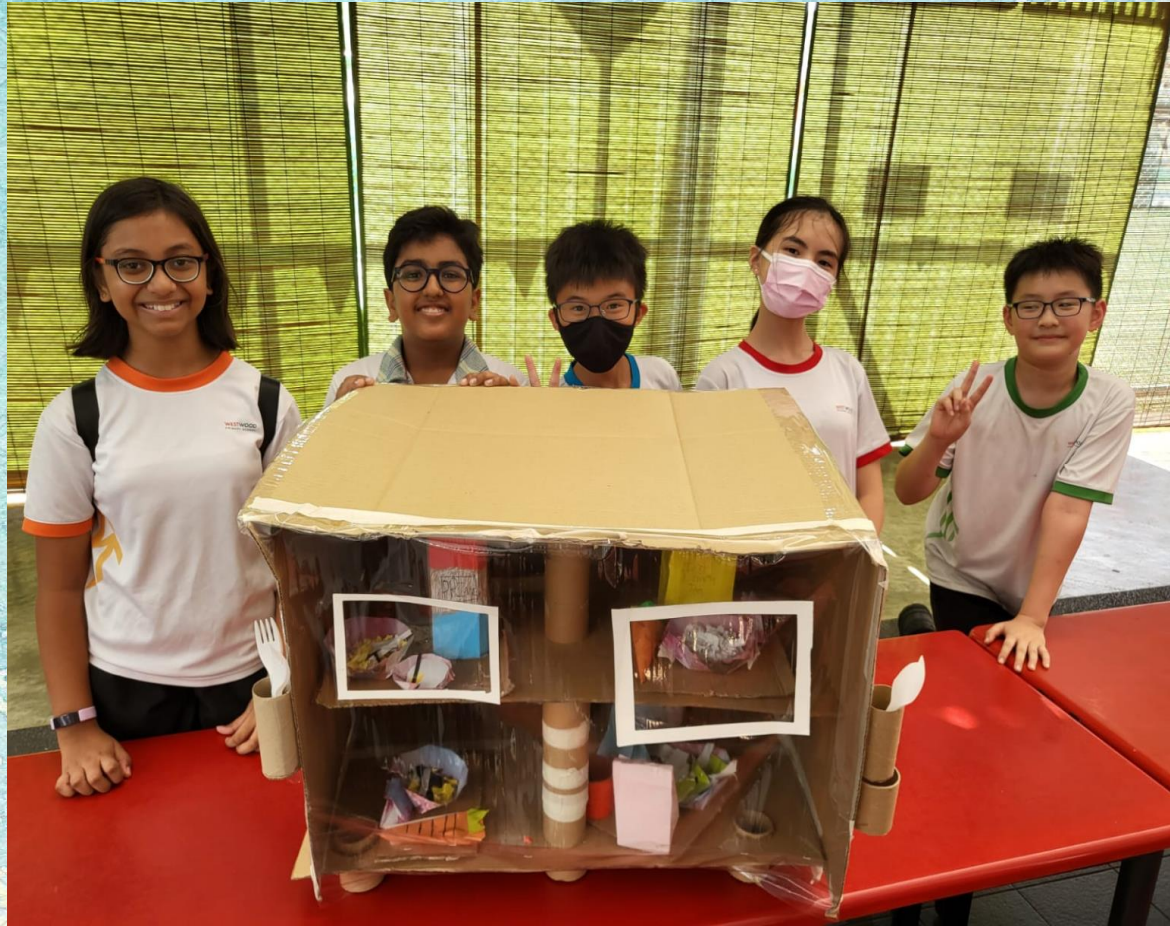
Back view



Side view

Final Product

The vending machine





Front view

Locker



Back view

For stall owner
to put in food



order pad

utensils

Side view

THANK

YOU

