

Shelf-up Shelly



amber, jermaine, an xuan, xiao tong

problems

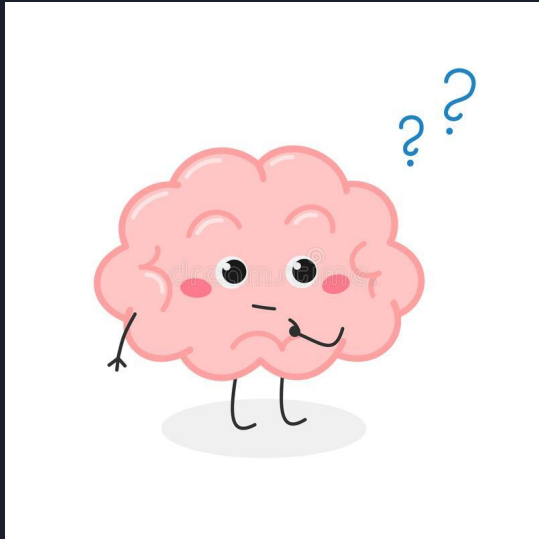


reasons that cause the problem to occur

- no space to put bags
- placing bags on themselves
- carrying bags for long periods of time on the train
- too many people in the train



how might we help statement



how might we design a product to...
*allow passengers to place their belongings
in a comfortable space*

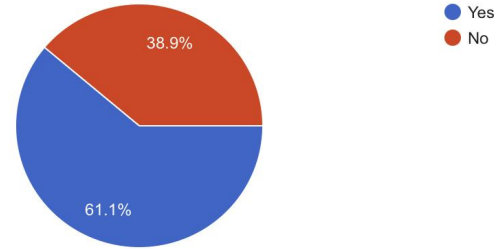
survey results

target group: people who take the mrt

results:

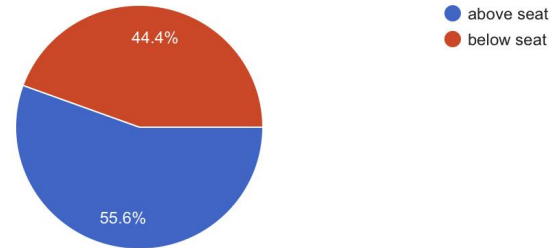
Would you use a shelf if there was one?

18 responses



Where do you like the shelf to be at?

18 responses





survey results

suggestions:

Make the shelf clear and below seat and be nice to ur favourite 50-year old uncle

1 response

Maybe you could put the shelf above the seat but make it smaller???

1 response

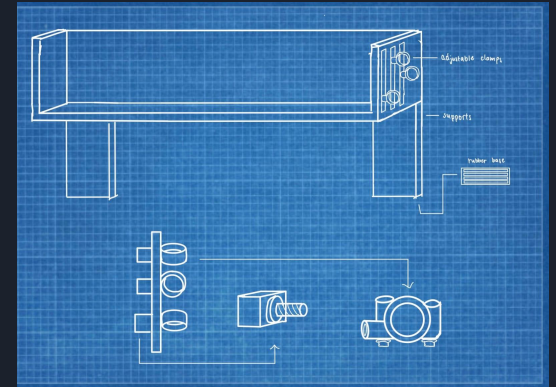
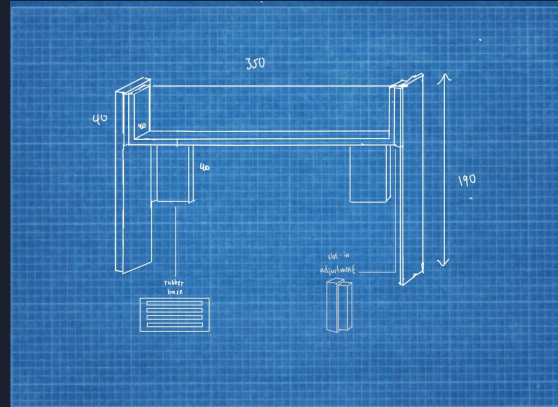
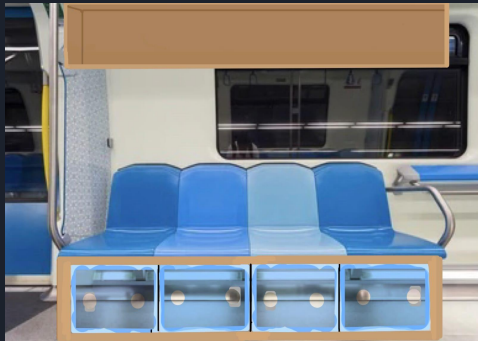
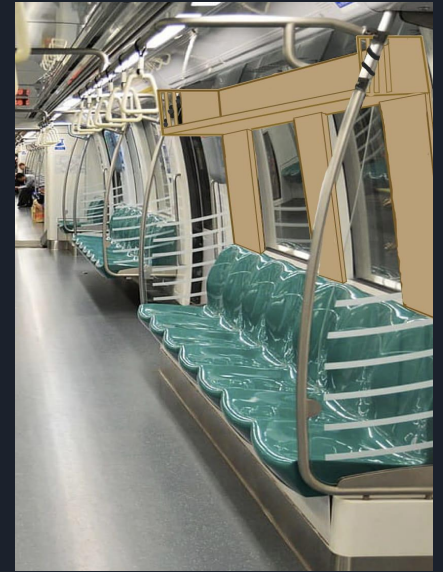
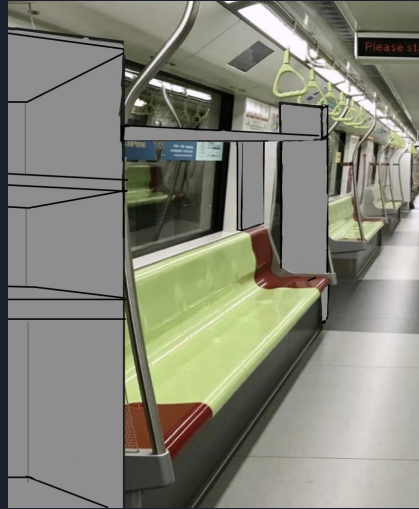
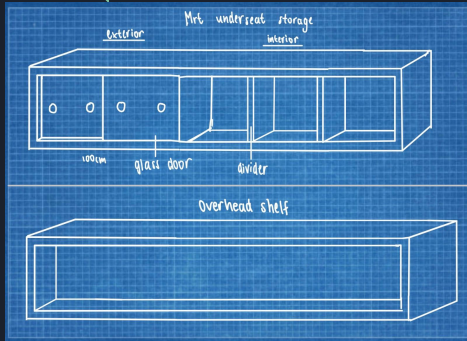
maybe u can add like something to block the bags from falling down?

1 response

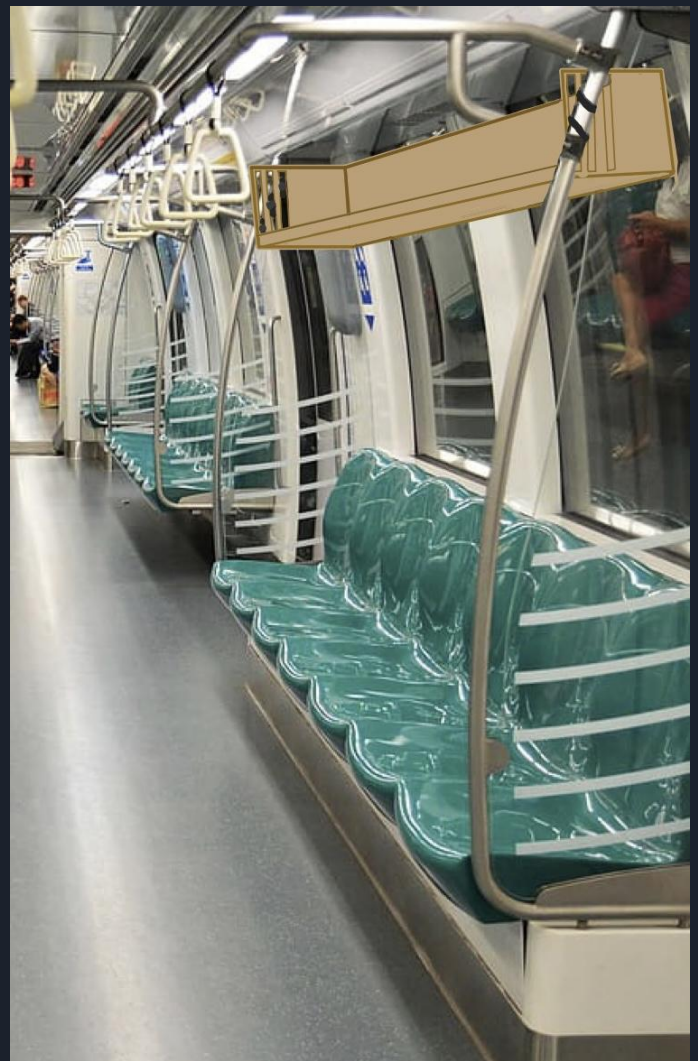
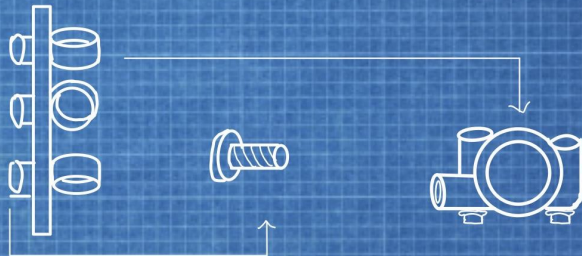
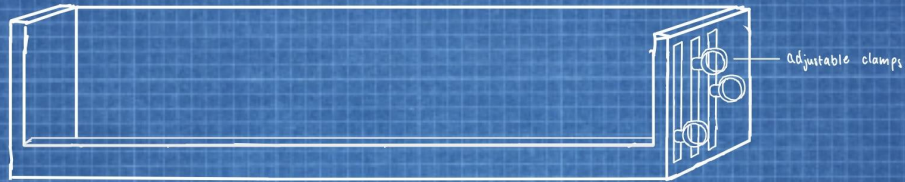
dont put doors on the shelves

1 response

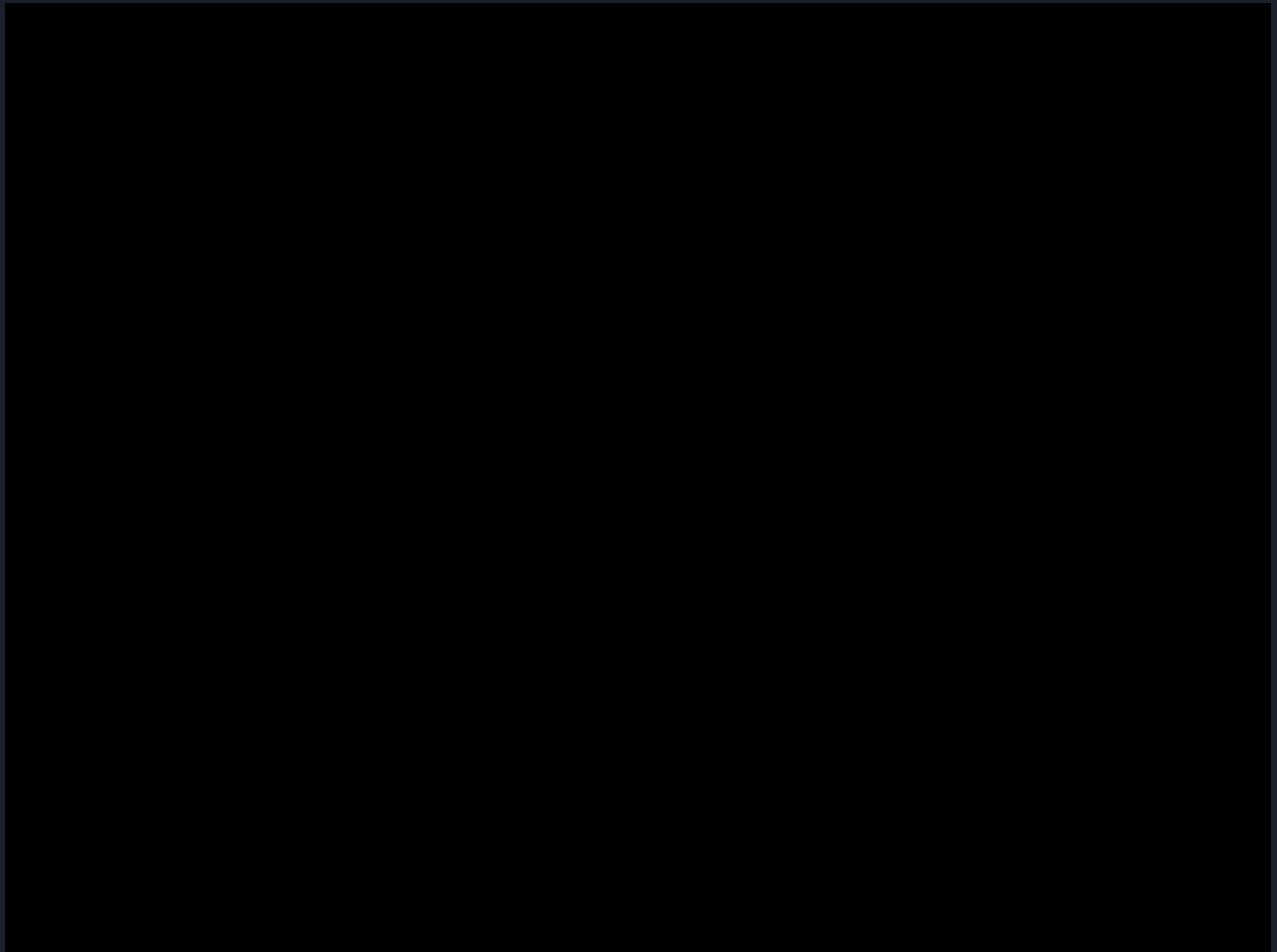
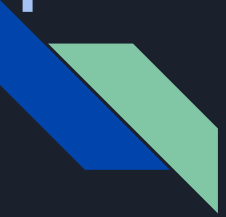
brainstorming



Final Design



prototype



advantages & benefits

- more vacant seats
- convenient
- easy to use



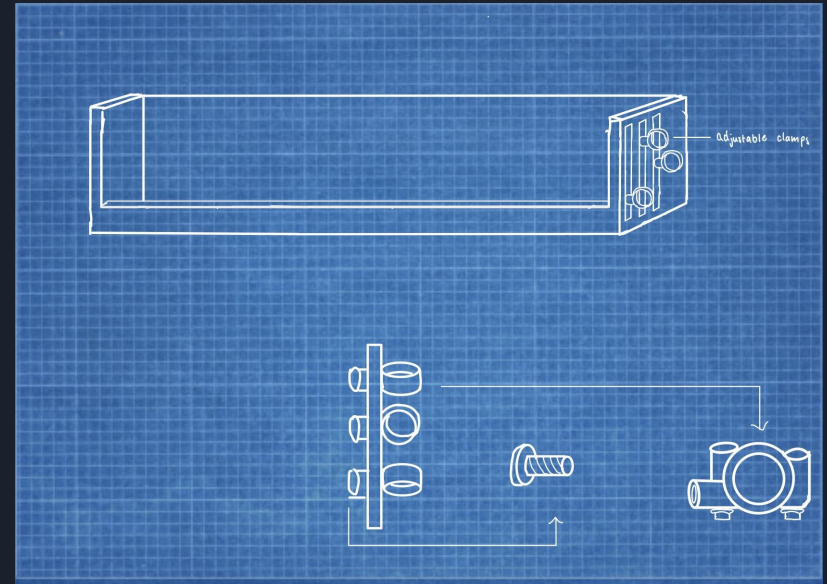
feedback from users

- forget belongings
- more lost items
- hitting their head
- bombs in shelf



areas for improvement

- accessibility to people
- prevent belongings from falling
- remember to take belongings





Individual reflections

What have you learnt from this project that is related to **STEM**?





Amber

- always improve
- persevere through the challenges



Jermaine

- an innovation that will help others
- research, design, construction
- collaborate as a team
- developed designing, engineering and problem solving skills



an xuan

- think of creative ideas
- make use of clamps [engineering]



Xiao tong

i learnt being creative and think about ideas to improve our environment. i also learnt about the structure of a shelf so it improved my knowledge.



Acknowledgements

We would like to credit and acknowledge Mr Chua and Mr Ng for helping us with some construction of our prototype as well as Mr Cai for assisting us too (booking the dnt room for us, giving us feedback)

Thank You! 

