



- PARCEL MANAGER -



PROBLEMS

Nowadays online shopping has become an indispensable behavior in our daily life, but at the same time, one by one upcoming delivery is also silently influencing our life.



- No one at home



- Missing the delivery & reschedule



- Inconvenient time delivery



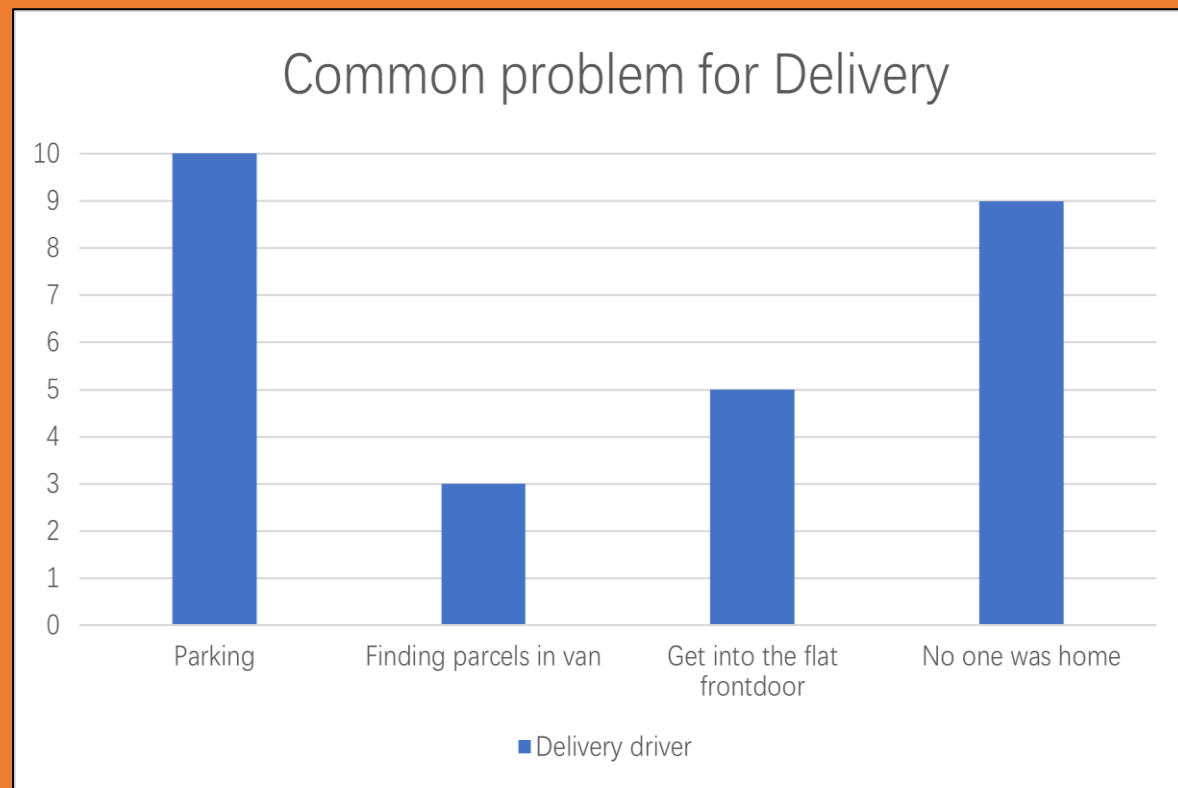
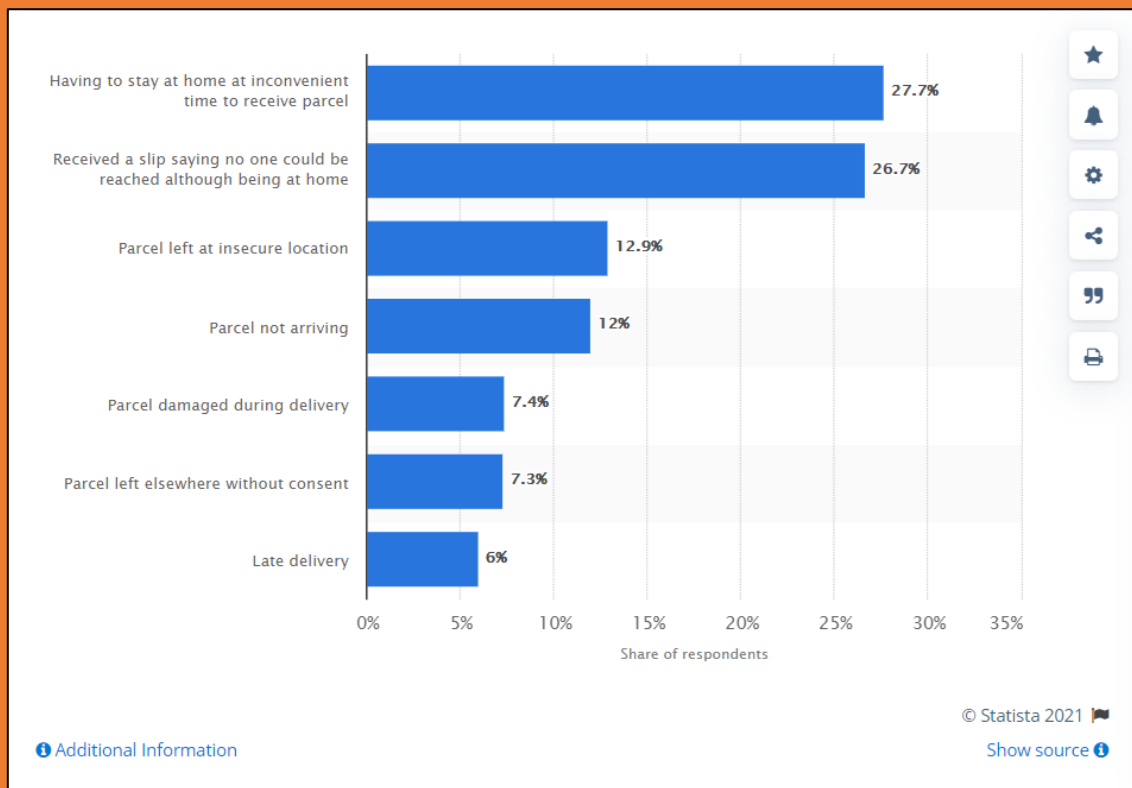
- Irresponsible delivery



- Not as expected product



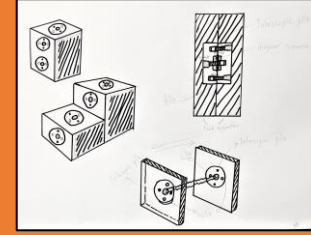
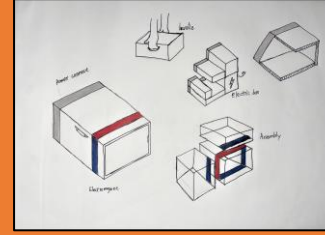
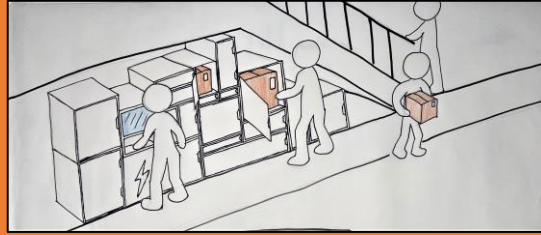
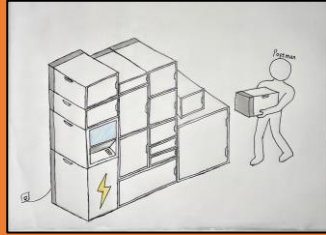
- Hard & expensive installation



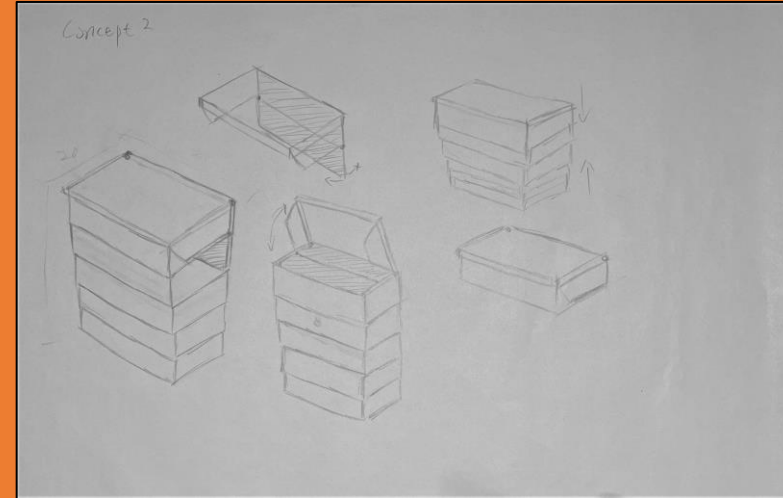
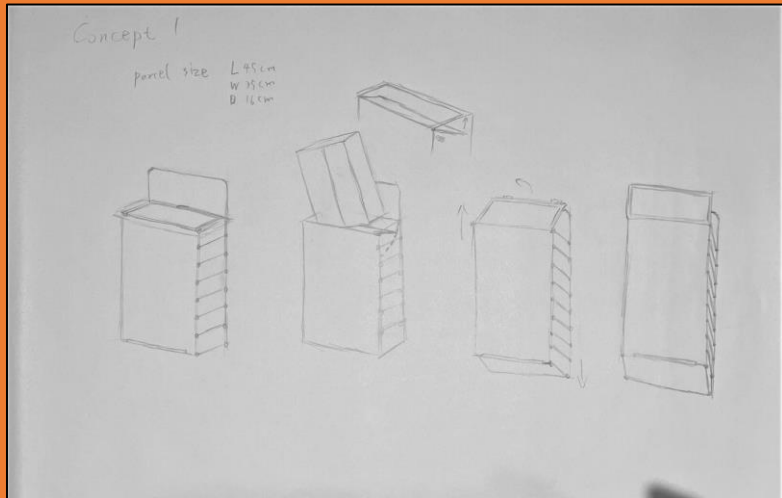
The chart here shows that in 2019 27 percent of users complained about waiting for delivery at home at an inconvenient time, in UK . The second graph shows that about 10 postman, 9 of them complained that no one was home to collect delivery was a common problem.

MY CONCEPTS

My initial idea was a modular system of public parcel lockers that anyone in the community could use, and with a set of vehicles for easy transportation and management.

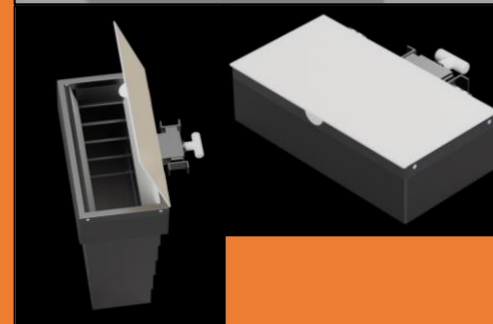
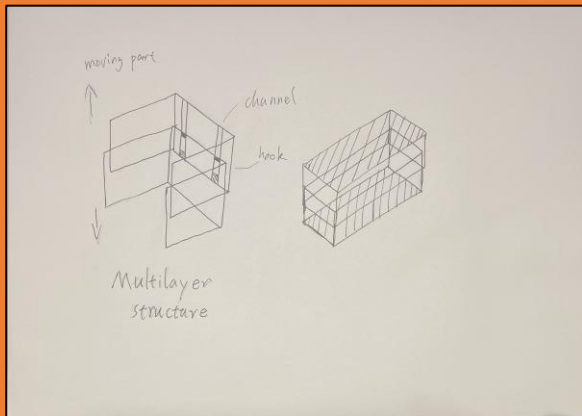


But I revisited the problem, *why can't users have a set of express collection system by themselves?* So, I chose to design a portable parcel storage system, This product can accommodate most sizes of parcels, and it has a folding function and is light weight, Suitable for most user groups.



MY FINAL DESIGN

This is my final design, **Parcel Manager!** This is a portable parcel storage box. The folding structure is based on the idea of a water cup. This one. This kind of folding can make a small interior space object become larger. And there is no need for any screw to damage the house and easy to install. After folding, Users can store it in any corner of the home if they don't want to use it. The Size of a Parcel Manager is just like a toolbox.

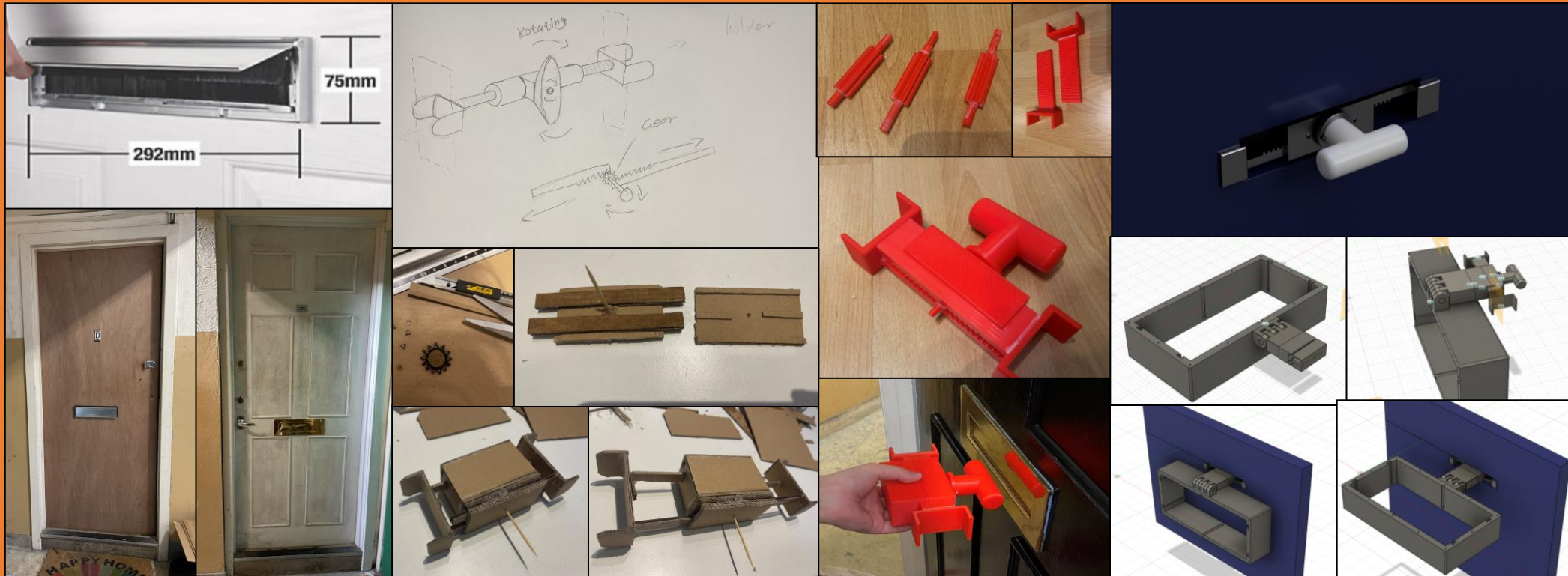


Parcel Manager interior space size after expansion can easily storage one or more daily use size parcel. Parcel Manager will be made of lightweight aluminum alloy. The gears and spline will be manufactured from metal materials with high hardness and corrosion resistance. This may can hold about max 10 kilograms goods.



Gear box

how is Parcel Manager fixed ? The traditional parcel box is fixed by drilling holes on the wall with screws, but the parcel manager is fixed with my uniquely designed holder. I think most users have a mailbox like this at the door of their house. This holder is sized to fit into most letter holes, unfold the clips to the right size with a simple gear structure, and then attach to the door. So, this parcel manager can be suitable for most users. It is easy to use whether you are a student renting a house like me, or an owner of the house. You don't have to worry about damaging your house wall by installing a parcel box , save your money. When the user is not using the parcel manager, it can be folded down and stored at home. There is also a foldable holder, which can be folded directly on the door when the user does not want to disassemble the parcel manager, so that the folding will not take up the use space of the door.



Smart lock

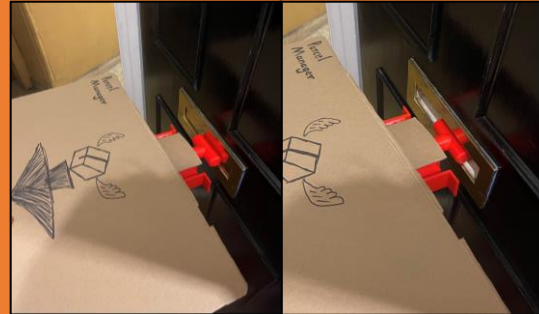


This parcel container NFC lock Located at the structure where the top lid protrudes. Users need use the type c cable to recharge their batteries. that kind of electric lock consumes little power and can be used for a very long time. You close the lid and it locks like a luggage locker. Only users and postman can easily open it. The postman can use their device touch to NFC LOCK to open and drop off parcels. The user can use the app on the phone or use NFC to open the parcel manager.

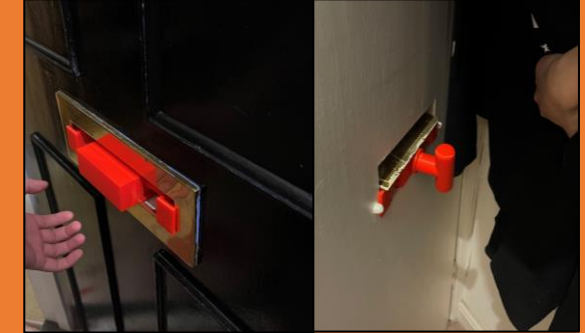
HOW PARCEL MANAGER WORK



- Expanded the parcel manager



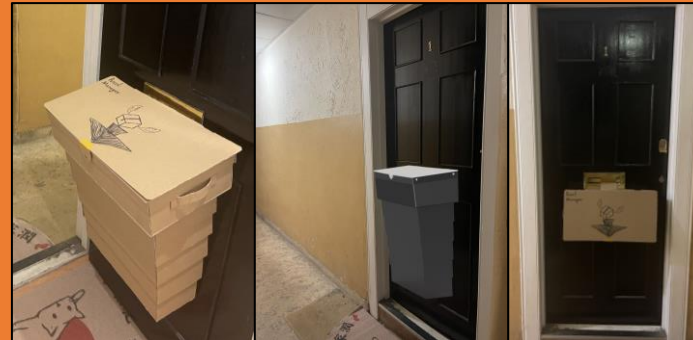
- Insert the holder into the letterbox on the door



- Rotate the handle on the holder (the clips on both sides will touch the sides of the letterbox)



- Then tighten the fixing ring on the handle to secure the entire holder



- The parcel manager is stably connected to the door



- The postman can use their device touch to NFC LOCK to open and drop off parcels.
- The user can use the app on the phone or use NFC to open the parcel manager



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