

FIX - A - FRIEND

brief

Redesign and improve an existing product to meet a specific users needs

user

Daisy is a female university lecturer and engineer who frequently users her laptop for work and personal use.

product

The product Daisy needed improved was her collapsible, portable and adjustable laptop stand.

user connection with product

During lockdown, Daisy felt the need to improve her posture and comfort while working from home and so bought the laptop stand.

Daisy found the stand more difficult to use than she'd like. The legs need to be adjusted separately and, when the laptop is on the stand, blindly. Daisy also found that the feet of the stand got in the way of her keyboard.



product for redesign



design considerations

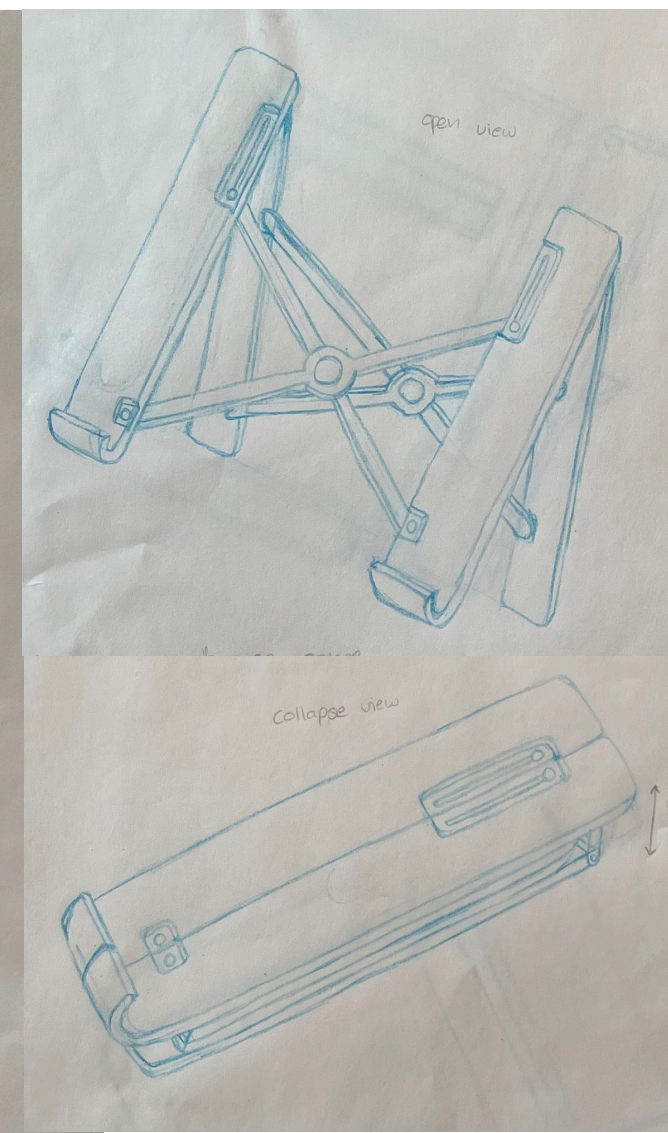
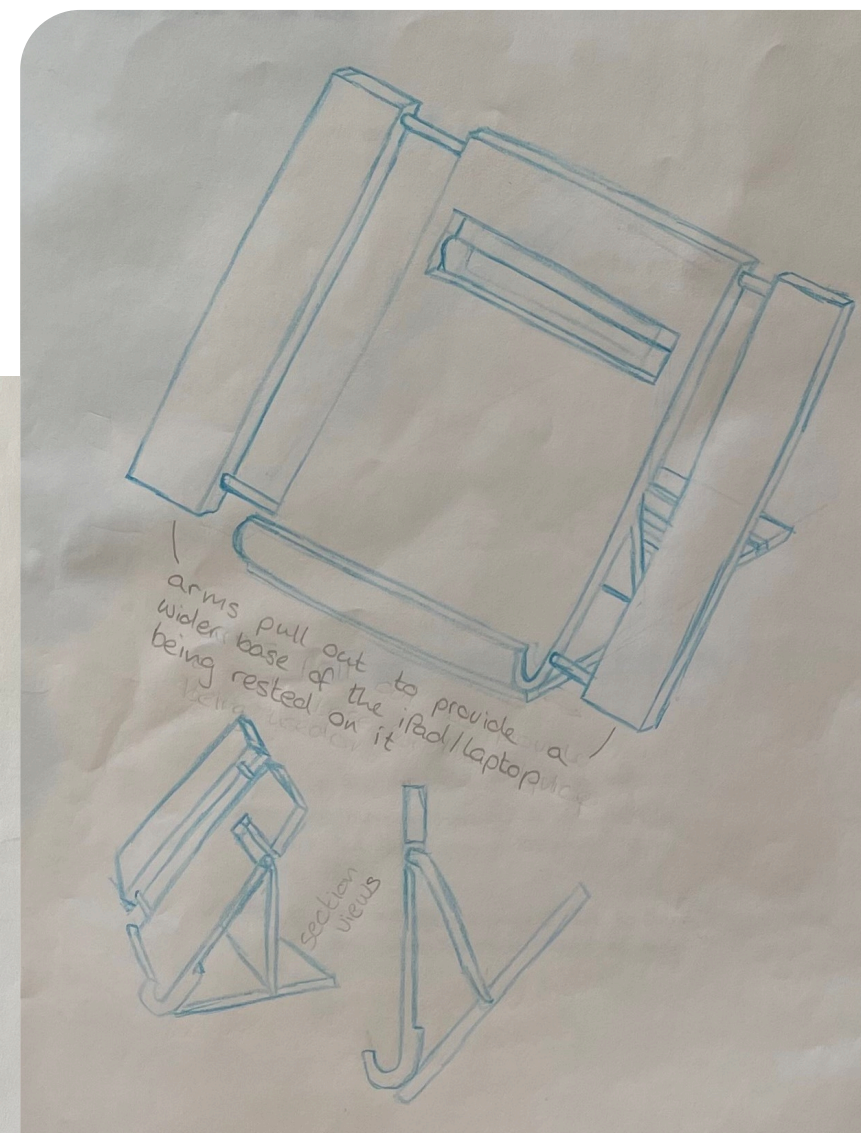
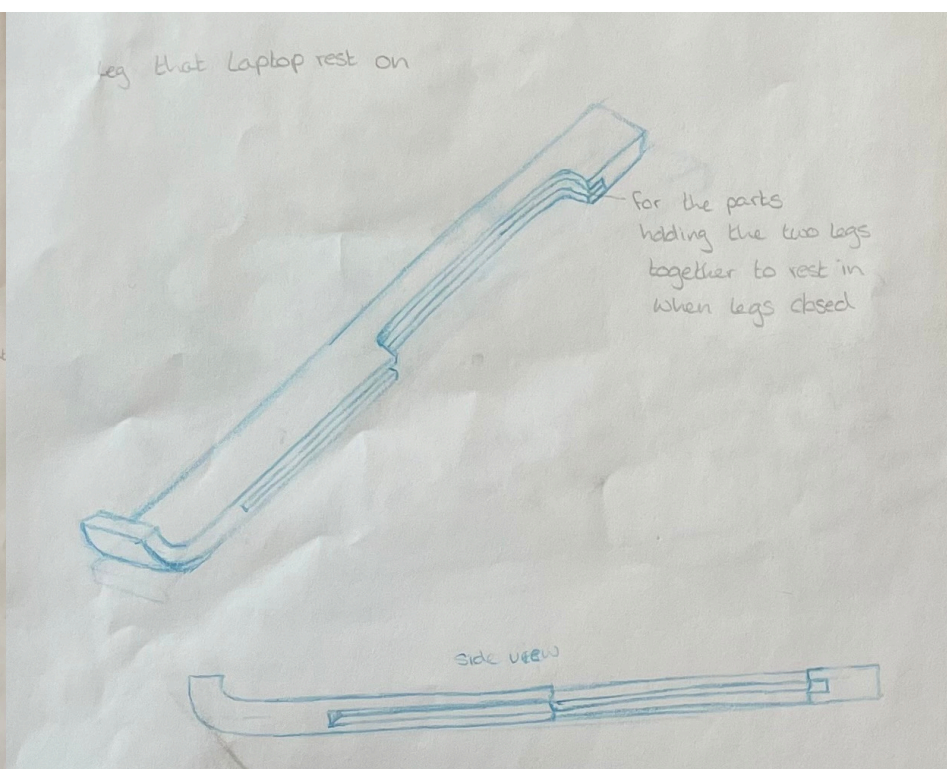
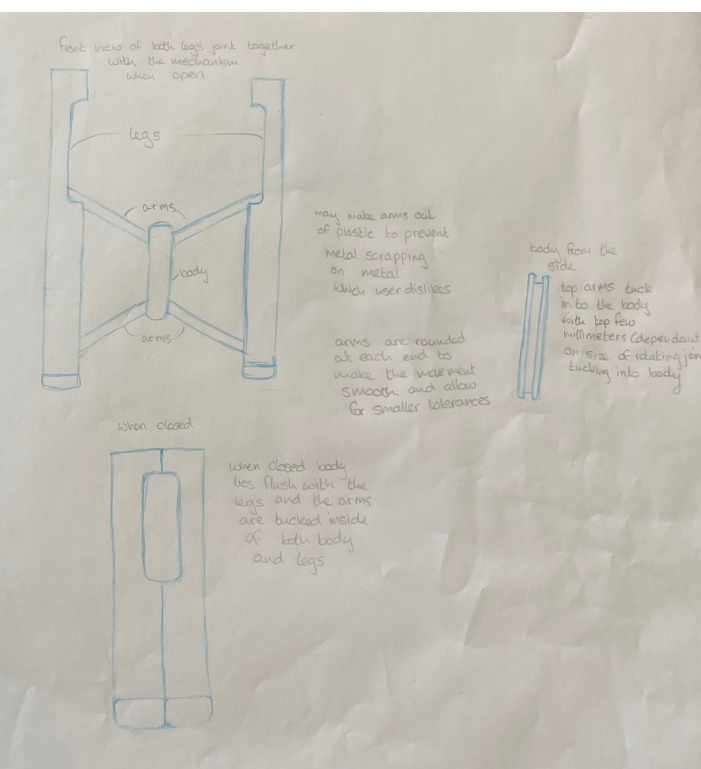
Needs to remain lightweight, compact and collapsible for easy transport as well as support the same amount of weight as the original (5kg). It also needs to have at least the same number of angles as the original.

working with a user

During each step of the process, I involved Daisy. This allowed me to get real time feedback from her on the design as well as make decisions based on her preferences. This also meant that I could pivot as needed at earlier stages.

concept sketches

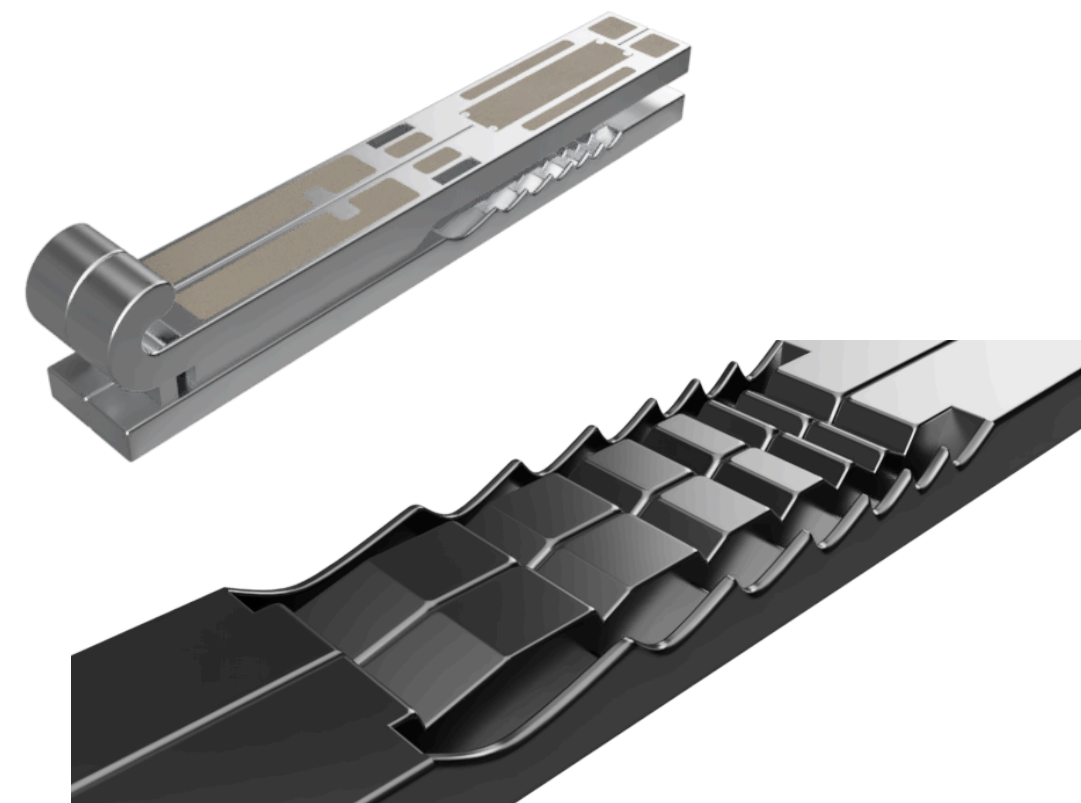
Here are some of my sketches of ideas for how to change the laptop stand to suit the user better.





cardboard modelling

I used Cardboard modelling to test my ideas and allow Daisy to try out the ideas to see how well they worked.



cad

After initial sketching, I used CAD to quickly convey ideas and get feedback as I could quickly change the model as needed.

compliance with design considerations

Due to the time limit on the project, I wasn't able to address all the issues Daisy had with her laptop stand and prioritised the most pressing ones. I was able to comply with all the key design considerations and overall, Daisy really like the improvements made.

key take aways

Feedback from users is important in ensuring that the product is functional, useable and appealing.

