

Problem Statement

• How might we design a laptop stand that helps the user use the laptop comfortably while sitting/laying down on the bed?

User pain points

- When X uses laptop on the bed, the soft blanket covers the cooling vents, causing the laptop to heat up.
- When X uses laptop on the bed, they find it difficult to use the mouse.
- User X can not see the keyboard clearly when laying down on the bed.
- When X uses laptop on the bed, they have no space to keep their coffee/smartphone/tablet.
- User X does not know where to store the laptop stand after use.

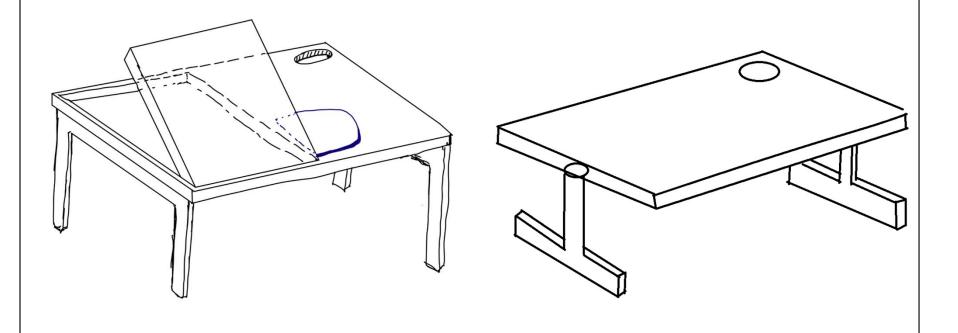
Key features

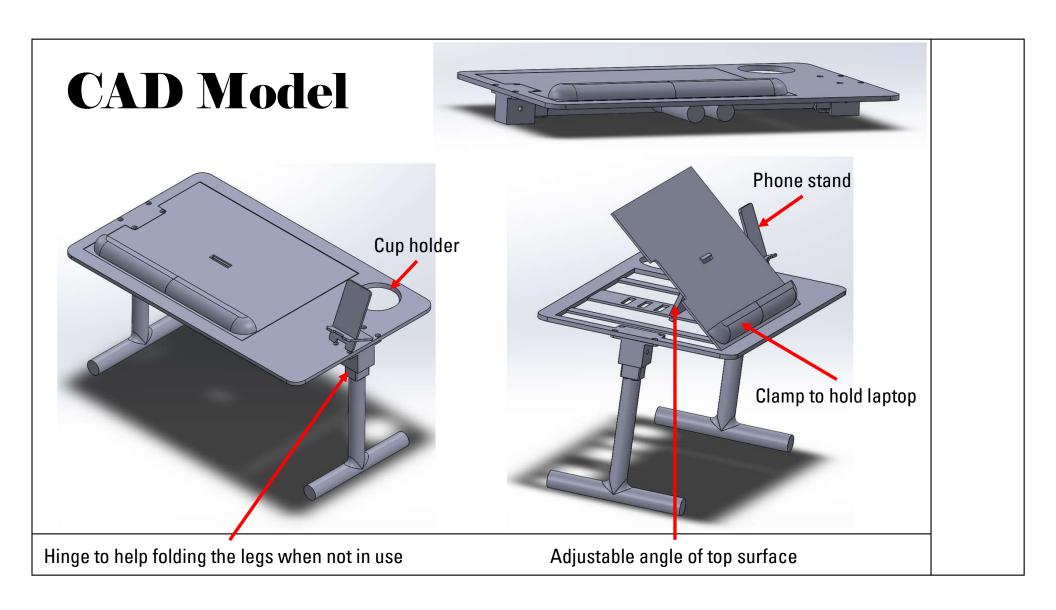
- Laptop stand should be able to balance on the bed, with space to fit user's legs.
- Laptop stand should have a flat surface such that it does not block the cooling vents.
- Laptop stand should have space to use the mouse.
- Laptop stand should have an adjustable angle, so that the user can comfortably use the keyboard at different seating/ sleeping positions.
- Laptop stand should have additional features to store drink containers, smartphones.
- Laptop stand should be light in weight for user to lift easily.
- Laptop stand should have a hook to store it on the wall.

Visual Design of Existing Products



Concept sketch





Fabricated prototype







Materials used:

- Top surfaces- Acrylic
- Hinges- PLA
- Legs-Wood

Ideal materials:

- Top surfaces- Wood/aluminum
- Hinges- Plastic (Injection molding)
- Legs- Plastic (Injection molding)

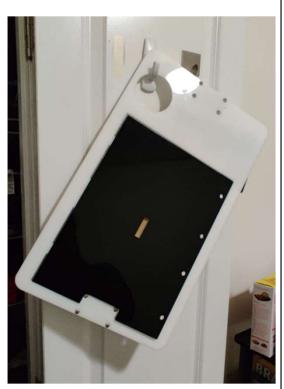
Prototype in use



General use



Incline to make typing easier



Storage after use

Rendering





Brand Language: Microsoft



