Team Robosapiens

Ayush Patel
Parth Panchal
Manav Thakkar

TheConception
Product Design Battle
Powered By AUTODESK

Portable Multi purpose table


Universal
table for all
your needs
AUTODESK

It can be used for household purpose or when going for a jaunt/picnic where it serves the purpose of both seating and dining.

Furniture takes a lot of space and if the available area is limited then it becomes a problem.

So we designed this portable table to solve this problem which can be folded into the case and be carried easily.

It can be easily accommodated in car and takes up only as much space as a suitcase. Thus it eliminates the problem of sitting on dirty land/grass and majorly helps for old people who cannot sit down.

We were facing challenges particularly in applying joints in Autodesk Fusion 360 in modelling workspace

Two revolute joints for two supports are required to be created with reference to the table, so that table folds up into the case such that both supports rotate together.

But in Fusion360, on changing angle of one joint, the other joint did not rotate and created error.

But later, we studied the types of joints available, and applied it accordingly and thus it was solved.

Currently it is in the design phase so we have used Fusion 360 for 3D modelling.

Also, we have used animation and render workspace of Fusion360.

A basic simulation was also carried out to check the strength of the table.

It gave quite satisfactorily results and also some scope for improvement in terms and reducing some material in specific areas