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MULTIUTILITY AND MULTIPURPOSE TABLE

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The Table™

- Modified table that will increase productivity of the normal everyday user. The table has components such as a bottle holder and a foldable pen stand.

- We observed a lot of clutter on tables of our batchmates, and we wished to remedy the situation. After taking a survey amongst our batchmates, we found a need for a table with more functionality.

- Allows them to focus more on their tasks and less on ensuring a good environment.

https://drive.google.com/file/d/1dUg0uH6upeLL6j7XllS07vld-zLlVoFJ/view?usp=sharing

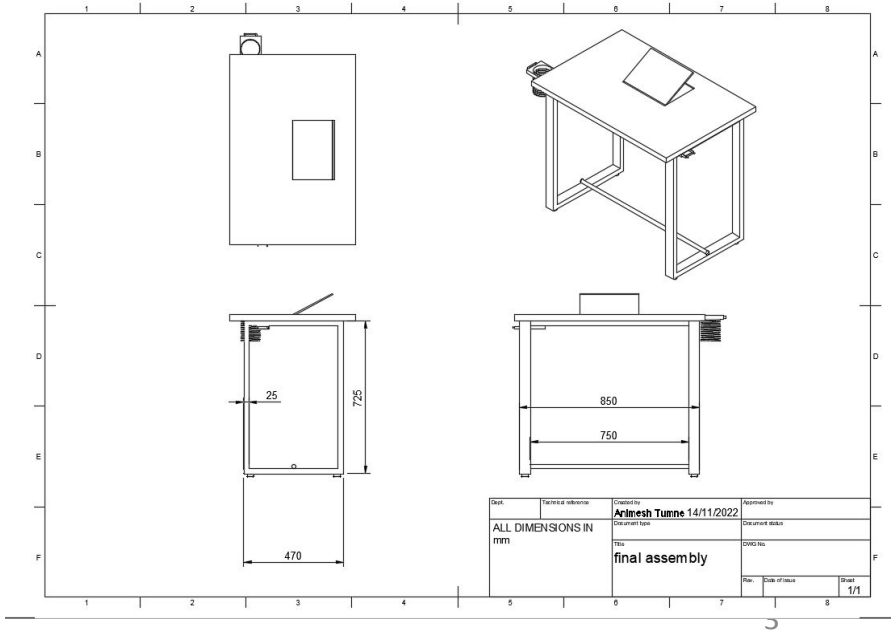
Proposed Design

A table of dimension (60*90cm) with laptop star bottle holder and pen box

To keep various things organised on the table at specific, allocated locations

Values added

- Embedded, height adjustable, laptop stand- helps in smooth working without neck pain
- Slidable bottle stand at a comfortable location
- Fixed pen stand below the table



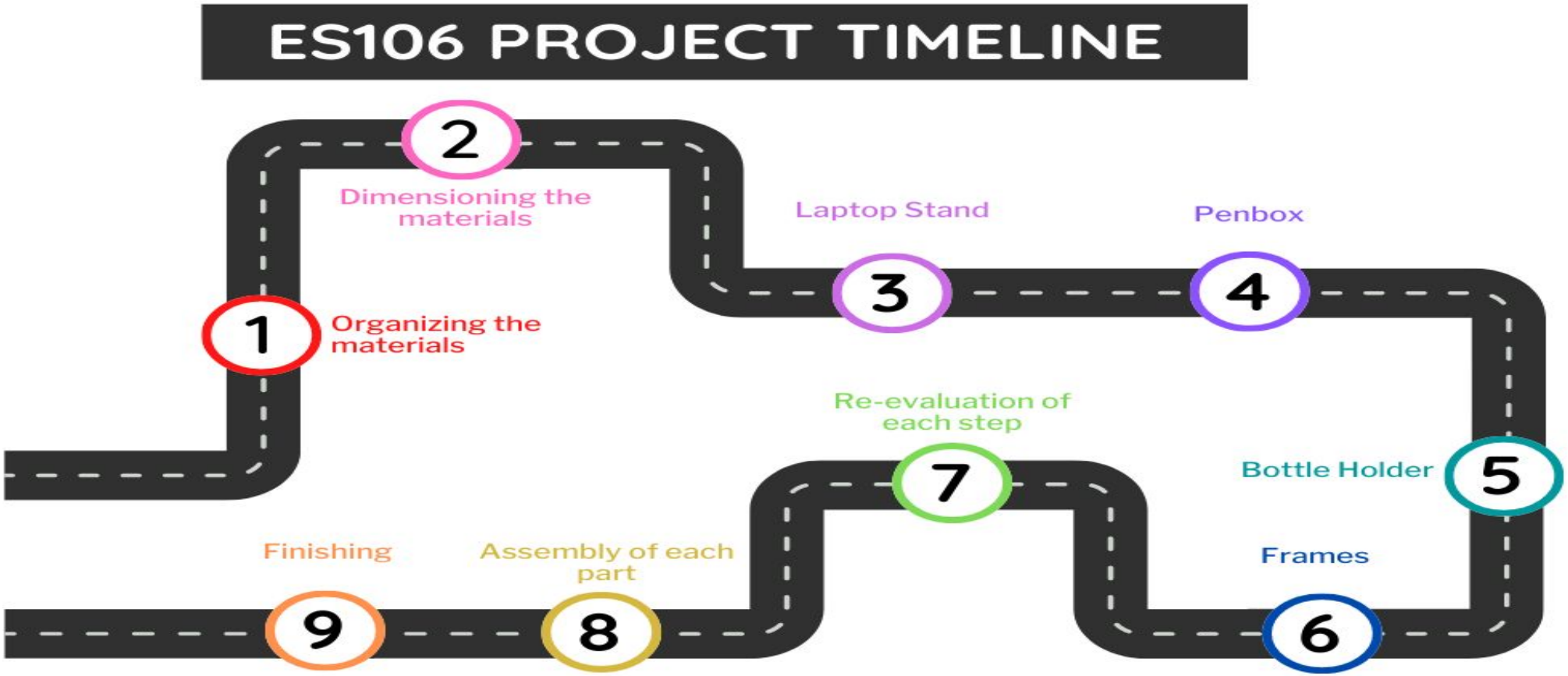
Materials and Manufacturing Processes

- **Materials used:**
  - Plywood- Cost effective and strong material
  - Mild steel- Strong base
  - Sun mica- Covering of plywood
  - Sheet metal- Make basic components
  - Fevicol and nuts and bolts- Join together plywood and metal frame

- **Manufacturing processes:**
  - Carpentry- Make table-top using plywood
  - Welding- Joining metal bars and create a frame
  - Cutting and fitting- Finishing and making legs of table
  - Sheet metal-Making pen-box
  - Rapid prototyping- Making bottle-holder

MATERIALS	RATE	AMOUNT	TOTAL COST
Plywood	70/sq feet	x2	3360
Mild steel	40/feet (20 feet)	x2	1600
Fevicol	400	1 kg	400
Sun-mica	1000+500	2 sheets	1500
Hardware	-	-	1000
Pine MDF(3*2feet)	230/sheet	1	230
1 pair of telescopic slide	300	1	300
Al sheet	320	1	320
Extra			1000
		Total	Rs 9710

Tasks and Timelines



Conclusions/Closure

With the making of this product, our vision of the tables will change. It will no longer be a simple elevated flat surface to write on. The world has now changed and we are now in need of so many amenities as we are progressing.

The devices that we use change, the content we watch changes, the work we do also changes with time, then this is the time we change what we work on: the Table.

It is one of the very great engineering problems to solve, and will be very valuable for our future engineering career.