

Name : Karan Ajay Bhavsar

Class : TE – IT (A)

Roll No : 15

ASSIGNMENT NO. 1

TOPIC NAME : GOOD DESIGNS AND BAD DESIGNS

1. GOOD DESIGNS :

Here are a few examples of good design that I have come across in my daily life or surroundings. I have chosen both physical and digital products.

i) STAPLER :-



A stapler is one of those products that is simple and a handy tool. It is a good design as it is easy to understand, simple, long lasting, easy to use and useful. It is intuitive and needs no prior training, however care as to be taken while using one of these. It serves the purpose it is designed for in an efficient way.

ii) **SCISSORS :-**



Scissors are one of the most commonly used basic tool. Scissors are one of those tools that are simple and efficient. A Scissor is a good design as it is simple, easy to understand and use, it is unobtrusive in nature and serves the purpose it is designed for in an efficient way. It needs no prior training to understand its functioning, however care has to be taken while using one of these.

iii) **Wallet :-**

3. Wallet



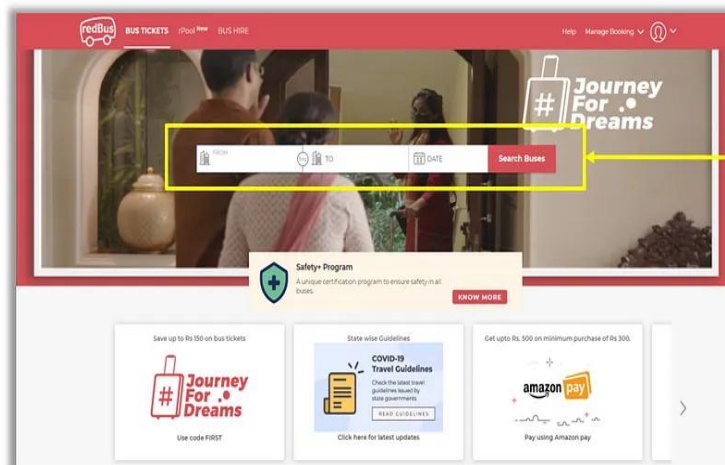
4. Redbus

Wallets can be used to make a style statement and enhance the personality, however the most important use is to keep money and other documents organized and safe.

A wallet is a good design as it is simple in design, easy to understand and use, unobtrusive and the overall design makes it useful. Wallets can be used to store

cash, cards and other documents in an organized way easily. It is a handy and a useful product that needs no prior training or knowledge to use, making it an intuitive product.

iv) Redbus :-

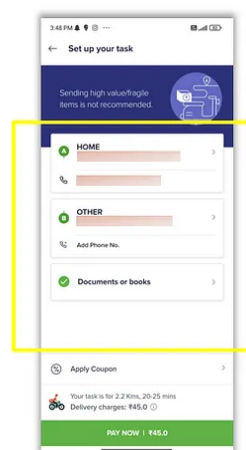


Quick and a convenient way to search for buses and Book tickets

Redbus is website used for booking bus tickets online. It provides a quick and easy way to book bus tickets online.

It is a good design as it is simple, easy to understand and use, unobtrusive and a useful product. Users can easily search for available bus services by entering the date of travel and place they want to travel to. They can then book the tickets online making it an easy and a seamless experience for booking bus tickets online.

v) Swiggy Genie :-



Lets users select pick up and drop locations along with the type of article they're trying to send, making it a convenient way of sending items from one location to another.

Swiggy's Genie service allows users to deliver or receive items like lunch boxes, documents, laundry and other materials from one location to another within a city. It is a good design as it is easy to understand and use, honest, unobtrusive and serves the purpose. Users can easily select the pick up and drop locations and the type of article or item they're trying to send. It even displays the cost for the service, making it convenient for the user.

2. BAD DESIGNS :

Here are a few examples of bad design that I have come across in my daily life or surroundings. I have chosen both physical and digital products.

i) Steel Locks of Weight Lifting Bars :-



Steel locks used for holding weight plates in weight lifting bars. This is a bad design as it does not serve the purpose it is made for. The locks get loosened once the user starts lifting the weights. The product does

not serve the primary purpose it is made for, it is not honest and can also cause harm to the user if it fails to perform it's intended function.

ii) Surgical Mask :-



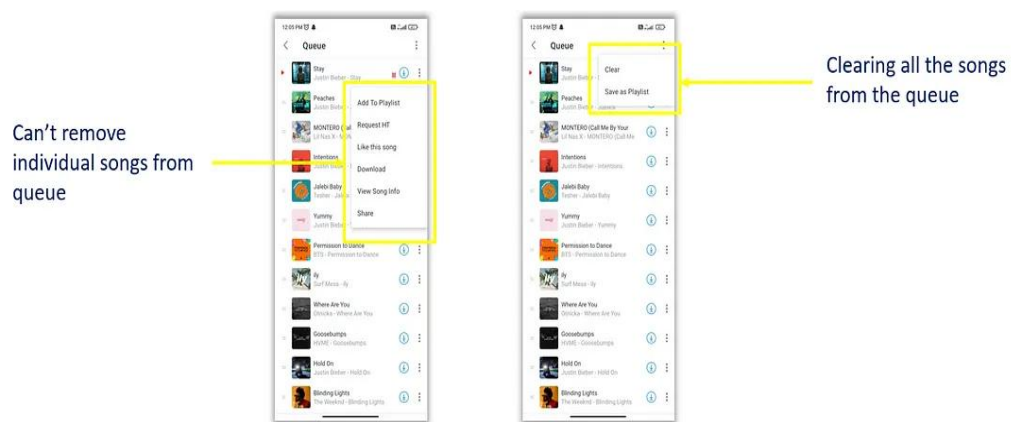
Face masks have played an important role during the Covid-19 pandemic. It helps to reduce the spread of the virus and along with other preventive measures. However, not all masks protects the user from the virus and this is one such mask. I tried blowing air through it and the air could easily penetrate the mask. It is marketed as a “3 layer” mask but it's not able to serve the purpose it is made for. Hence it is a bad design as it is not honest and does not perform the intended function of protecting the user from the virus.

iii) Two Wheeler Fuel Lid :-



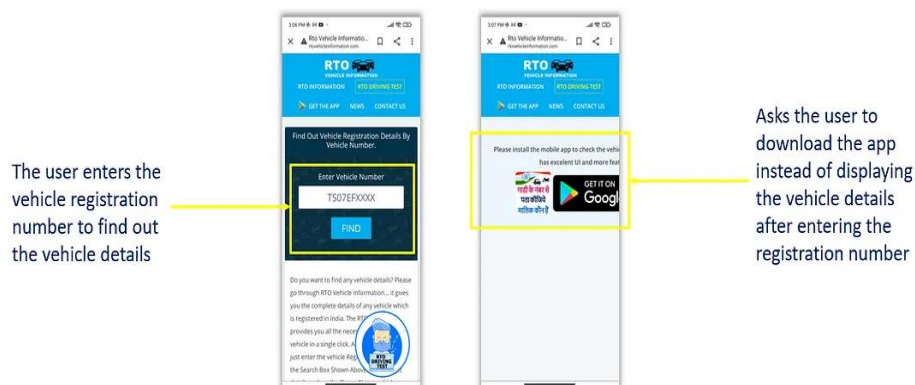
The fuel lid of a few motorcycles lack the hinge mechanism to hold the fuel lid in place. The user has to remove the fuel lid and hold it in his hand every time he goes for refuelling the bike which is frustrating and annoying. Hence it is a bad design from my perspective. The fuel lids can have a hinge that would hold it in place with the fuel tank, making it easy and convenient for the users while they're refuelling their two wheelers.

iv) Wynk Music :-



Wynk music app is an online music streaming app. It lets users add individual songs to queue but doesn't allow removing individual songs from the queue. The only option the user has is to clear all the songs from the queue and hence it is a bad design as it is inconvenient for the user and not useful.

v) RTO Vehicle Information Website :-



I came across a [website](#) that promised to display vehicle information on entering my vehicle registration number. After entering the vehicle registration number, the website redirected me to another page, asking me to download the app for viewing the details. This is annoying and frustrating. It is a bad design as the website isn't honest, misleading and does not serve the purpose it is made for. It wasn't useful and the experience was annoying.

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ASSIGNMANT NO. 2

Topic Name : JUGGAD

1) "Water Tank Bike Garage – Desi Jugaad at Its Best"



Description:

This creative *jugaad* repurposes an old plastic water tank into a compact and efficient mini-garage for two motorbikes. By cutting open one side of the tank, it transforms into a weather-resistant shelter that protects bikes from rain and harsh sunlight. This solution is low-cost, durable, and a brilliant example of recycling for practical utility. Perfect for areas with limited space and budget-friendly needs—this is true Indian ingenuity in action!

2) "Plastic Bottle Shower – Budget Bathroom Jugaad"



Description :

This clever hack uses a regular plastic water bottle to create a makeshift shower head. By cutting or poking small holes into the bottle and attaching it to a water pipe or tap, water flows out in a shower-like spray. It's an easy, zero-cost solution for places without a shower setup. Simple, effective, and resourceful—this jugaad is perfect for temporary bathrooms, rural homes, or emergency use!

3) "Broken Clock Jugaad – Time Doesn't Stop!"



Description :

When the clock breaks, innovation strikes! This image shows a wall clock with a damaged section cleverly patched using paper to redraw the missing numbers. Instead of throwing it away or replacing it, the missing part is filled manually to keep the clock readable and functional. This humorous yet practical *jugaad* reflects the spirit of “use what you have” and never let time stop you!

4) "Luxury Cycle Seat – Comfort Wala Jugaad"



Description :

This hilarious and innovative *jugaad* replaces the regular bicycle seat with a full car seat, complete with a headrest for ultimate comfort! Whether it's about avoiding back pain or just making a bold style statement, this hack is all about comfort on a budget. It may not be practical for speed, but it definitely wins in *sitting* style! This jugaad shows how creativity turns old scraps into usable comfort solutions.

5) "Whiskey Lamp Stand – Light with a Twist"



Description :

This brilliant *jugaad* transforms an empty whiskey bottle into a lamp stand by fitting a night light bulb cap directly on top. Instead of buying a

new lamp base, the bottle gives it both support and style! It's the perfect blend of upcycling, creativity, and humor—turning trash into treasure with a desi touch. Ideal for hostel rooms or bachelor pads where budget meets imagination!

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ASSIGNMENT NO. 3

TOPIC NAME : Constraints and Feedbacks

1) Slipper as Wiper for Scooty

Jugaad Idea: Using an old slipper tied to a stick as a manual scooter wiper

Constraints Faced:

- No wiper on scooter for monsoon
- Needed to clear rain from mirror/headlight

Feedback:

- Hilarious yet practical
- Not durable, but works during emergencies



2) Laptop Cooler with Table Fan

Jugaad Idea: Small fan placed behind a laptop to cool it down

Constraints Faced:

- No laptop cooling pad available
- Laptop heating during long usage

Feedback:

- Cheap and works effectively
- Needs space and makes noise



3) Mobile Torch as Emergency Light

Jugaad Idea: Hanging mobile upside-down using a clip to light up a room during power cut

Constraints Faced:

- No emergency light at home
- Power cut during night

Feedback:

- Creative temporary solution
- Battery drains quickly

**4) Bottle Sprinkler for Garden**

Jugaad Idea: Plastic bottle with holes attached to pipe to create a garden sprinkler

Constraints Faced:

- No sprinkler tool or pipe head
- Needed even watering

Feedback:

- Perfect for small gardens
- Water pressure needs control



5) Cycle Rim Used as Fan Guard

Jugaad Idea: Broken cycle rim tied over a fan without grill

Constraints Faced:

- Fan grill broken or missing
- Safety for children needed

Feedback:

- Smart recycling use
- May not fit all fan types

