

INTRODUCTION:

OVERVIEW;

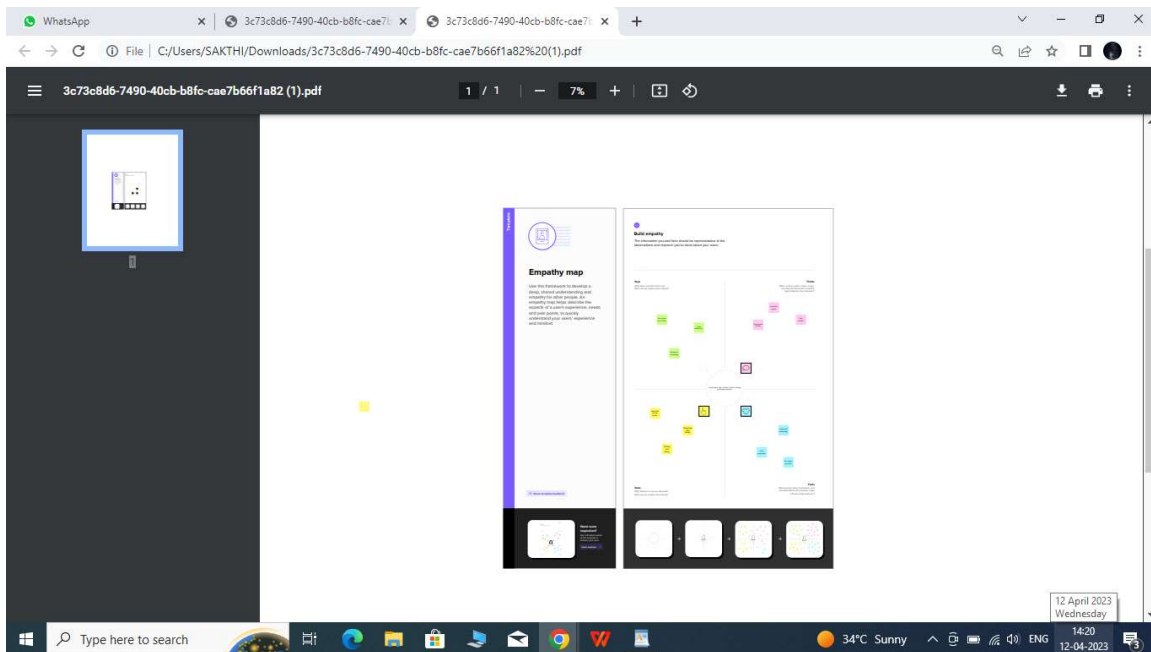
Electric Vehicle technology has advanced rapidly since its introduction, and today there are many plug-in hybrid and battery electric vehicle options available on the market.

Purpose;

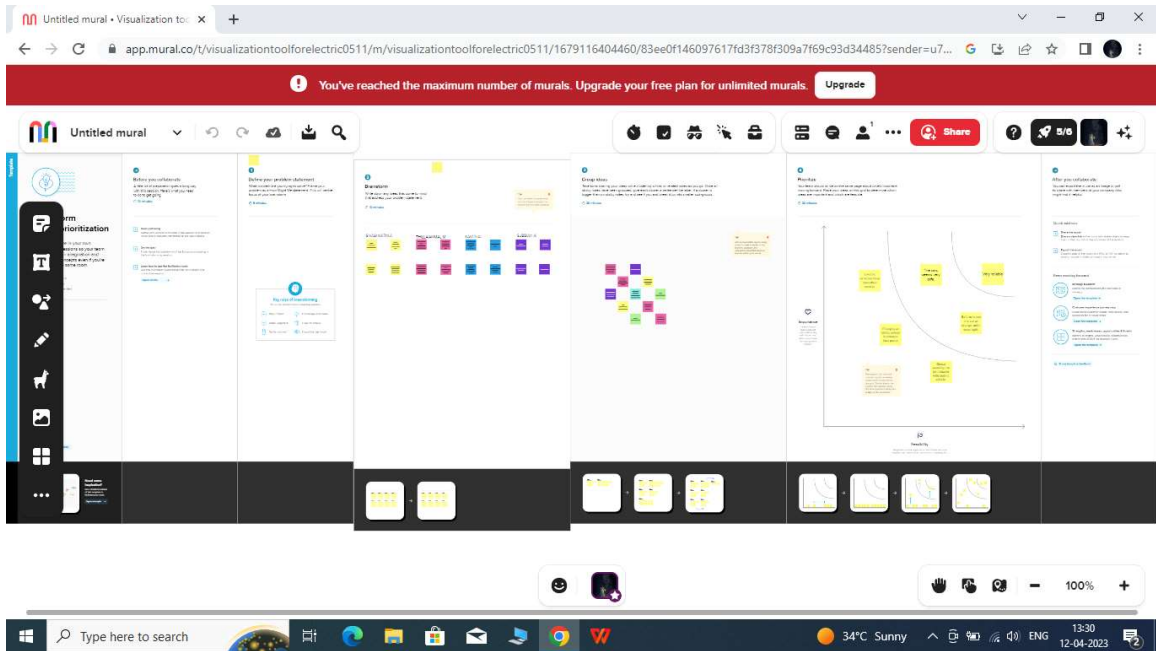
Electric Vehicles use electricity to charge their batteries instead of using fossil fuels like petrol or diesel. Electric Vehicles are more efficient, and that combined with the electricity cost means that charging an electric vehicle is cheaper than filling petrol or diesel for your travel requirements.

Problem Definition&Design Thinking:

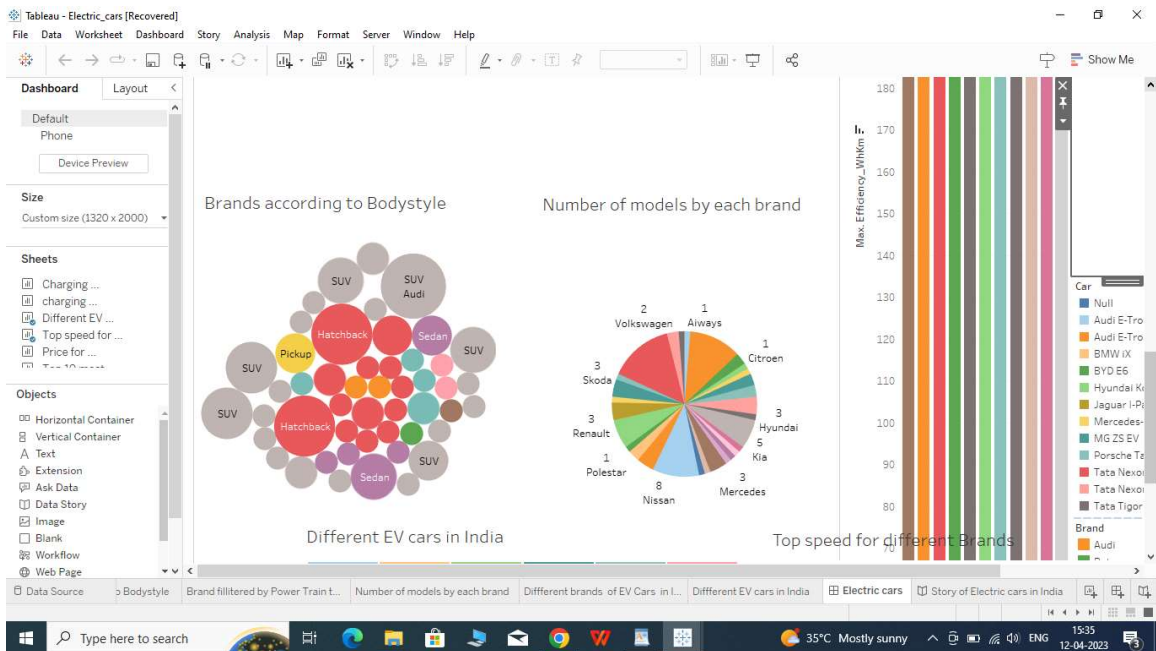
Empathy Map;

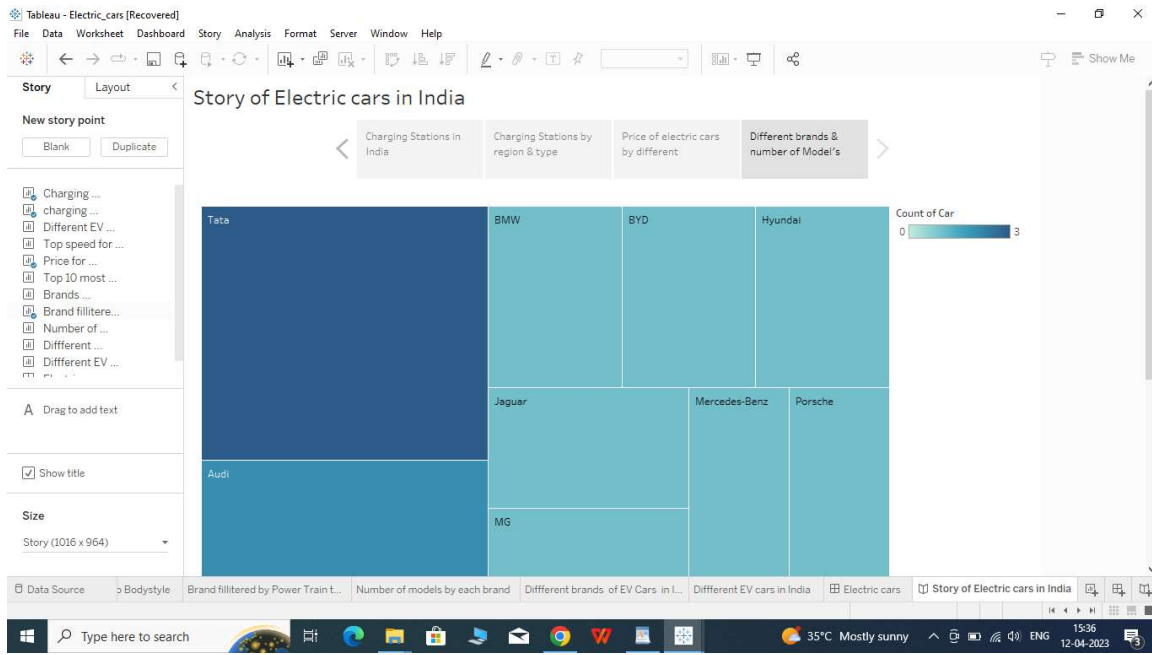


Ideation&Brainstorming Map;



Result





Advantages & Disadvantages

Advantages

- *Electric power has many advantages domestically and industrially as most of the equipments are run by electric power. Brightness in the night is only possible by the use of electricity.
- *Electric Vehicle need no fuels and saves money on buying gases.
- *It environment friendly as they do not emit harmful pollutants into the atmosphere.
- *The maintenance cost is low due to the usage of efficient electric motor in them.
- *It has a better performance on the long run.

Disadvantages

*The battery range of Electric Vehicle is limited.

*Electric Vehicles when charged travel less distances.

*Electric Vehicles take a long time for the recharging process which can be done at charging points.

*Electric Vehicles are expensive and so cannot be afforded by all people.

Applications:

Electric cars to become the vehicle of choice and reduce pollution from fossil fuel combustion, manufacturer's only need is a battery that charges fast, power cars for 100miles or more, delivers more power for instant response and is non-flammable.

Conclusion:

Although Electric Vehicle manufactures must solve the hurdles that are currently preventing people from purchasing, the future is clear. Electric Vehicle will outlast gas-powered automobiles in the long run.

Future Scope:

*Projects like that will help us in using more and more electric Vehicles in the future.

*This will help in reducing emissions and hence in environment related studies.

*It is the most cost-effective solution as charging can be done at home also.

*Range Analysis will help us selecting the best vehicle for our needs.