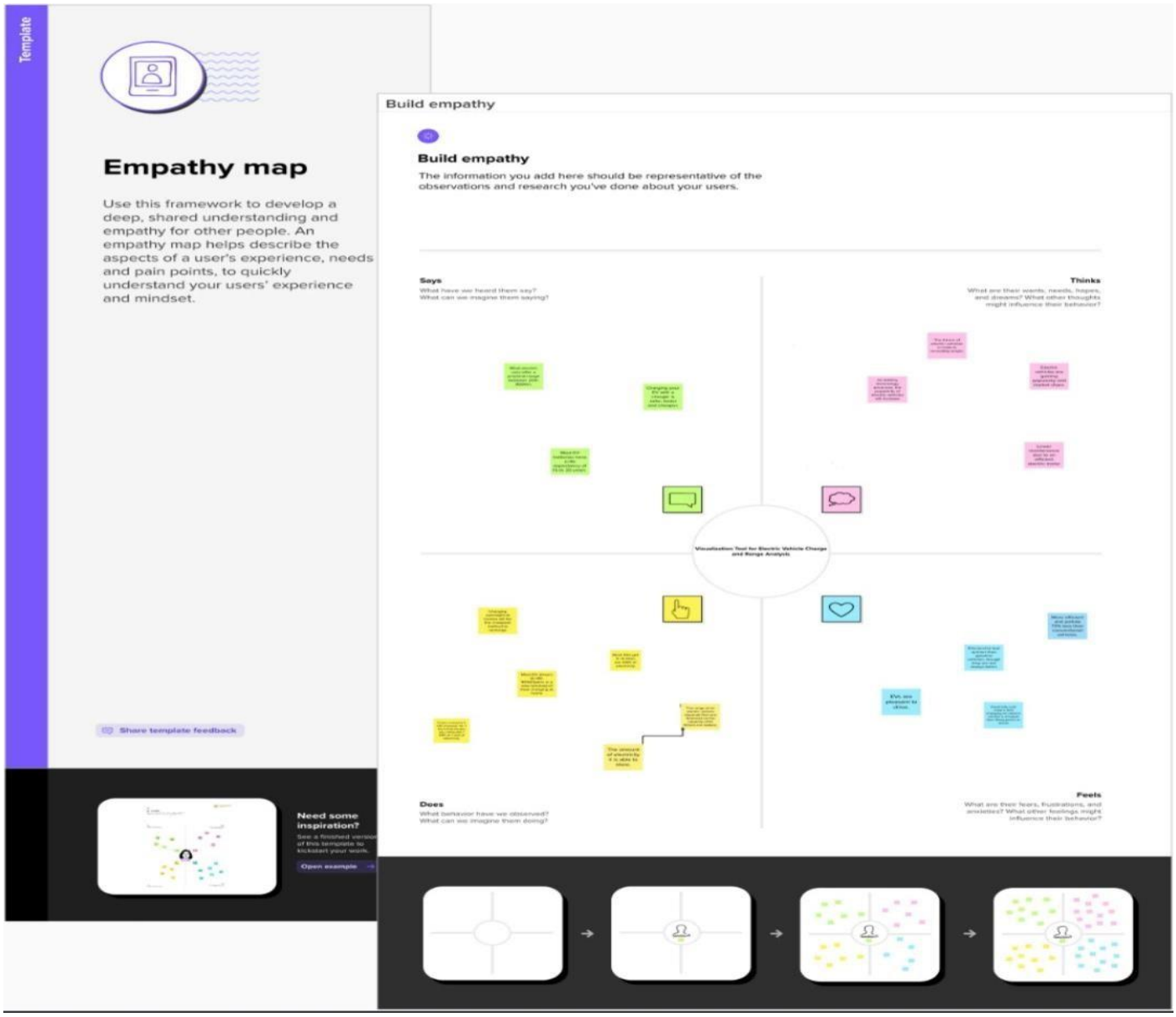
INTRODUCTION

- **OVERVIEW :**
  - An EV includes a vehicle that can only be powered by an electric motor that draws electricity from a battery .
  - A vehicle that can be powered by an electric motor that draws electricity from a battery and by an internal combustion engine.
- **PURPOSE:**
  - Electric vehicles use electricity to charge their batteries instead of using fossil fuels like petrol or diesel.
  - To reduce fuel consumption and improve the environment.
  - To reduce vehicular emissions.

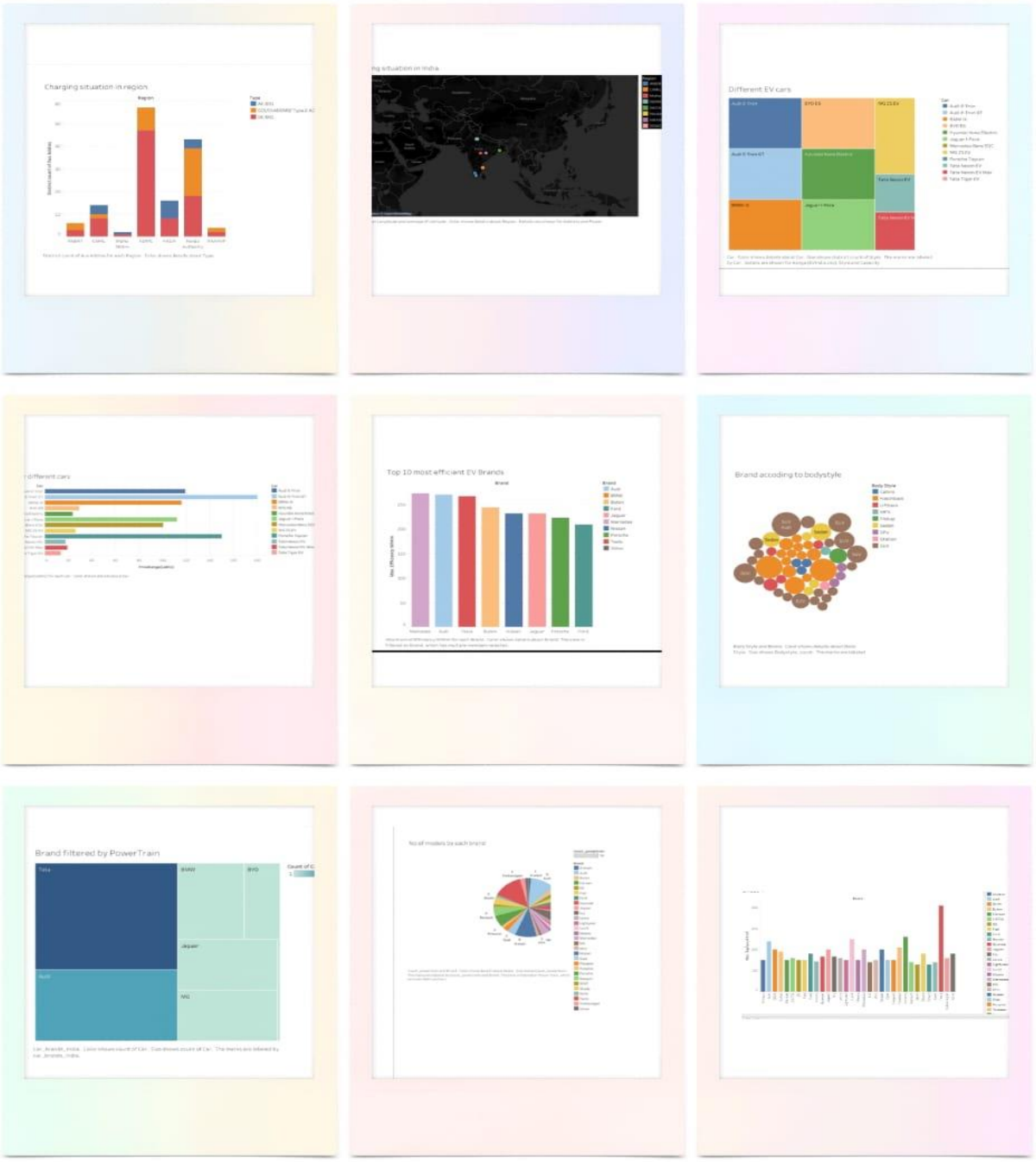
PROBLEM DEFINITION AND DESIGN THINKING :

- Empathy :



- Ideation and Brainstorming map:

RESULT:



ADVANTAGES AND DISADVANTAGES:

- **ADVANTAGES :**

- Low running cost
- Low maintenance due to an efficient electric motor.
- It does not emit toxic gases or smoke in the environment as it runs on a clean energy source.
- No fuels , No emissions.
- Easy to drive and quiet.
- Less noise pollution.

- **DISADVANTAGES:**
- Higher purchase cost and compared to regular automobiles, electric vehicles are highly pricey.
- High temperature are shorten battery life and very low temperature reduce the useful capacity of the battery.
- Electric vehicle can take a long time to charge.
- Low speed &Range.
- There aren't enough charging points.

APPLICATIONS:

- Helps in energy consumption management.
- Safety management security.
- Creates a pollution free eco-friendly environment.
- Save a lot of money on fuel.

- ✞ Reduce vehicular emissions.

CONCLUSION:

The progress that the electric vehicle industry has seen in recent years is not only extremely welcomed, but highly necessary in light of the increasing global greenhouse gas levels.

FUTURE SCOPE:

- ✞ Electric sale vehicle are projected to increase sharply, from 3 million in 2020 to 60 million in 2040.
- ✞ The number of charging stations is expected to increase to 100000 units by 2027.
- ✞ Globally, Electric vehicle will represent more than two thirds of passenger vehicle scale in 2040.
- ✞ Electric vehicle scale in the United states could reach to percent of total passengers car sales by 2030.

APPENDIX: