Introduction:

Overview:

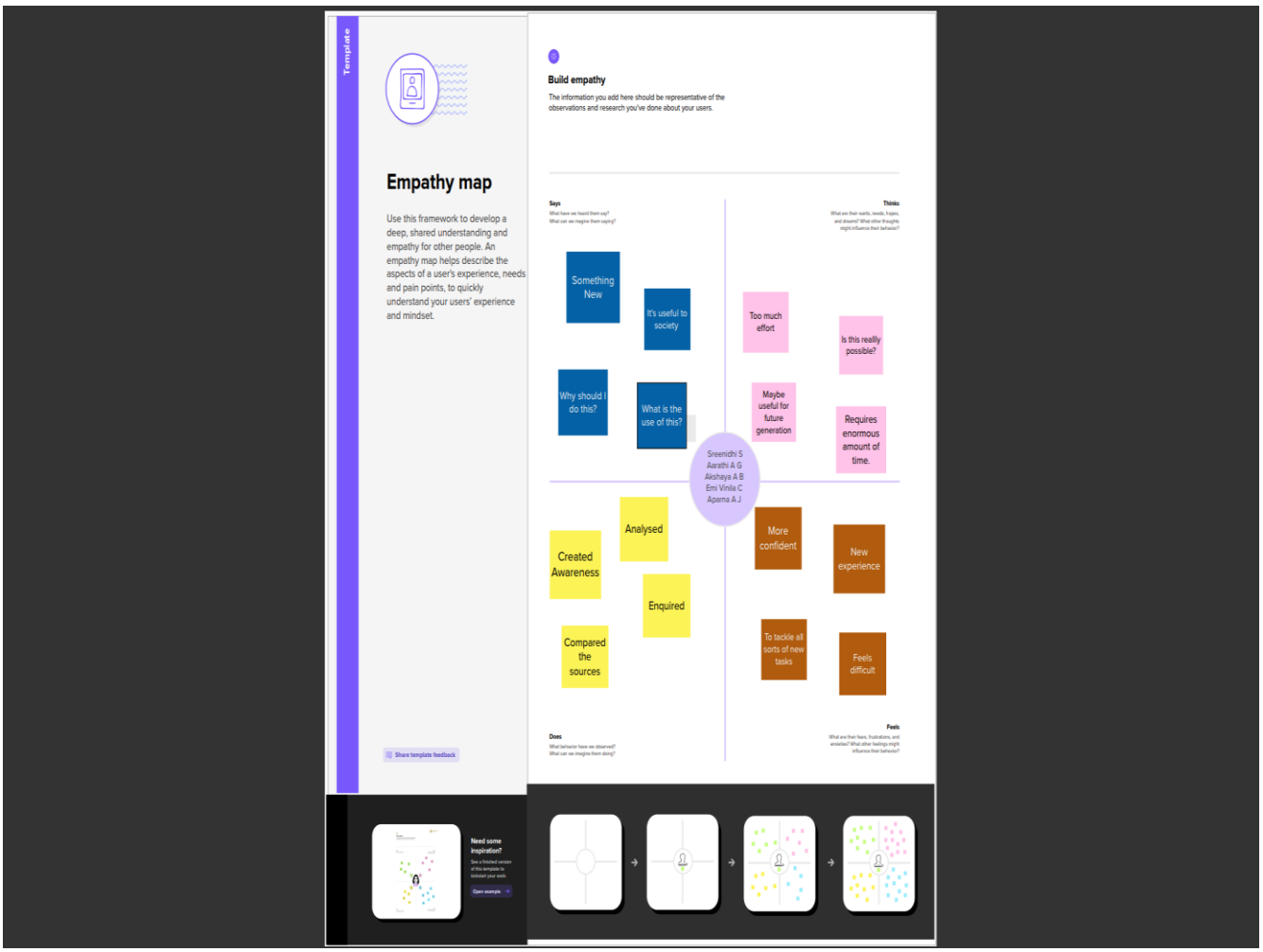
India is the 3rd largest producer and consumer of electricity. During this fiscal year (2019-2020), the total electricity generation in the country was 1598 TWH, of which 1383 TWH generated by utilities. Analyzing Electricity Consumption in India from January 2019 till 5th December 2020. This dataset contains a record of Electricity Consumption in each states of India. Here we are going to analyze State wise, Region wise and Overall Electricity Consumption in India.

Purpose:

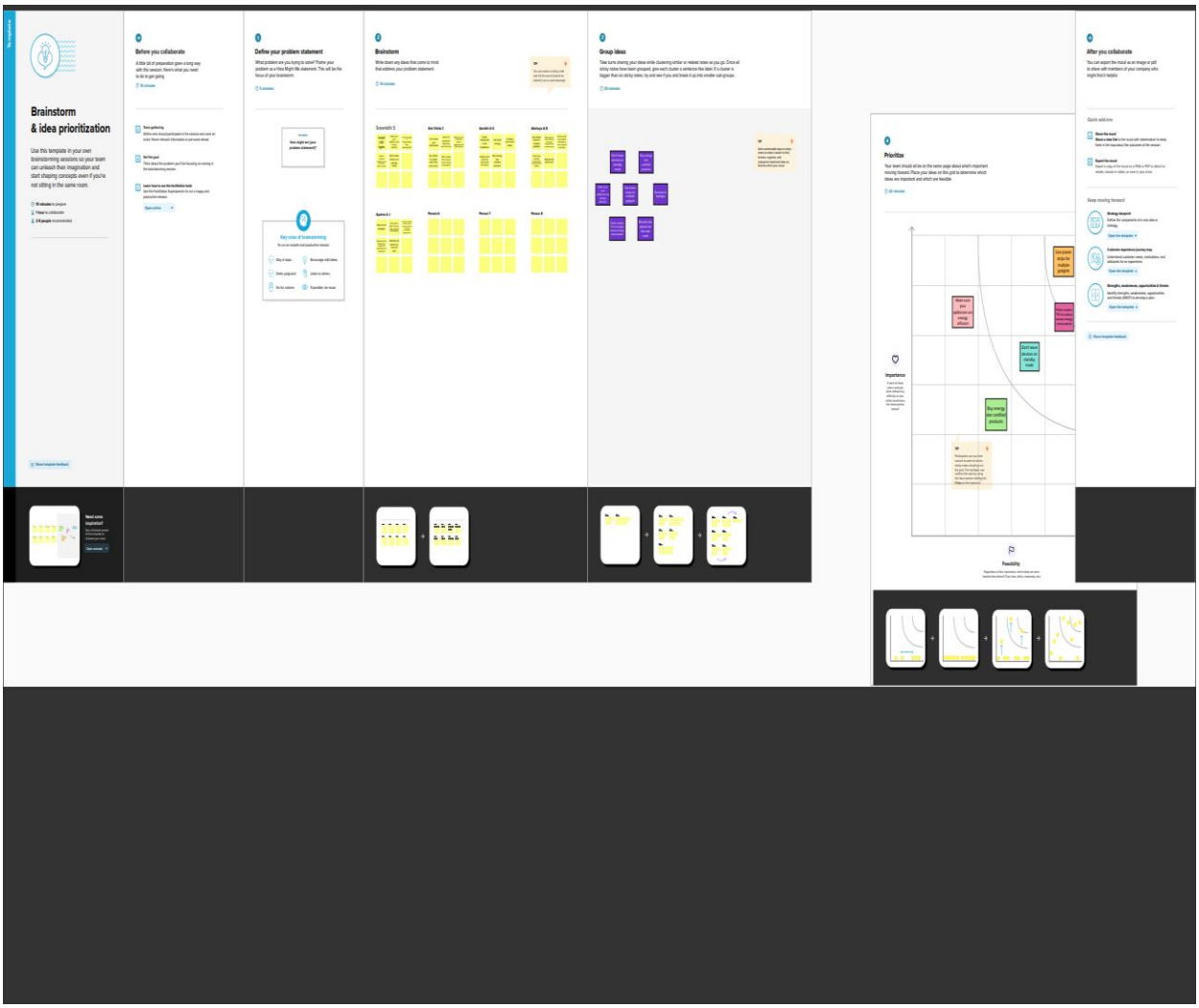
We analyze this data to know the rate of consumption of electricity in different states or regions in month wise and year wise patterns and to identify which states or regions consume large amount of electricity, so we can take steps to reduce enormous amount of electricity consumption in India.

Problem Definition and Design thinking:

Empathy Map

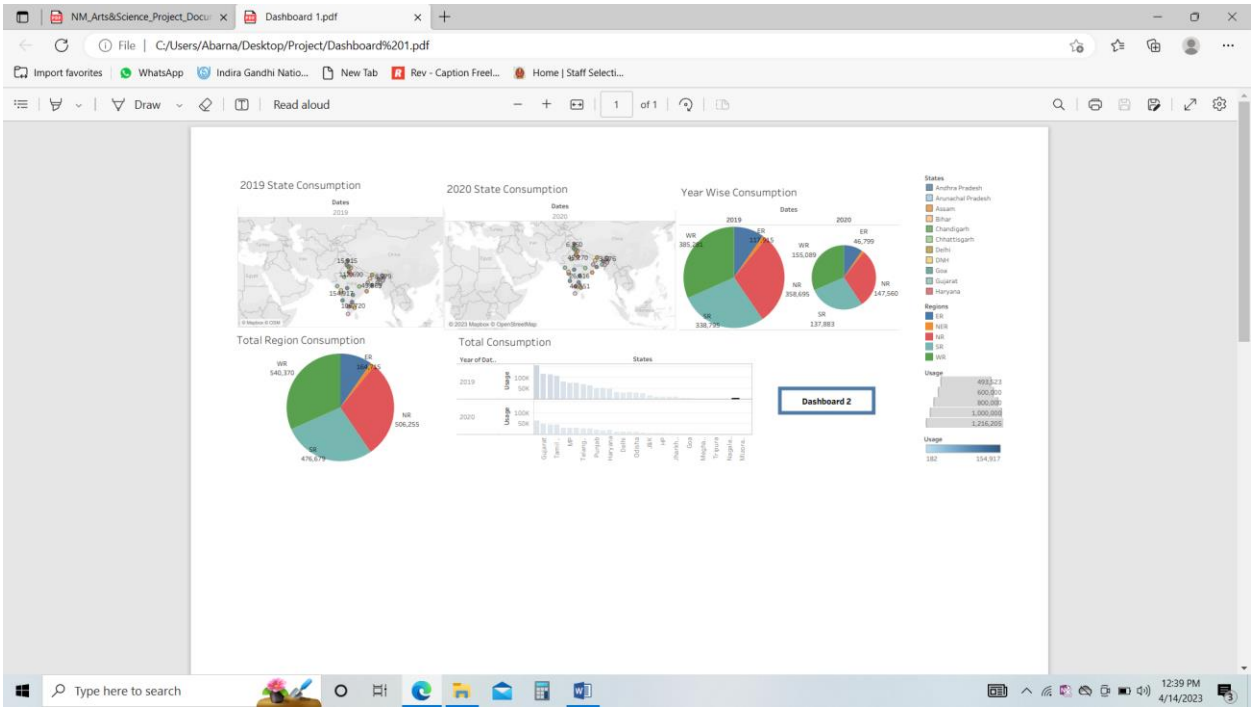


Ideation &Brainstorming

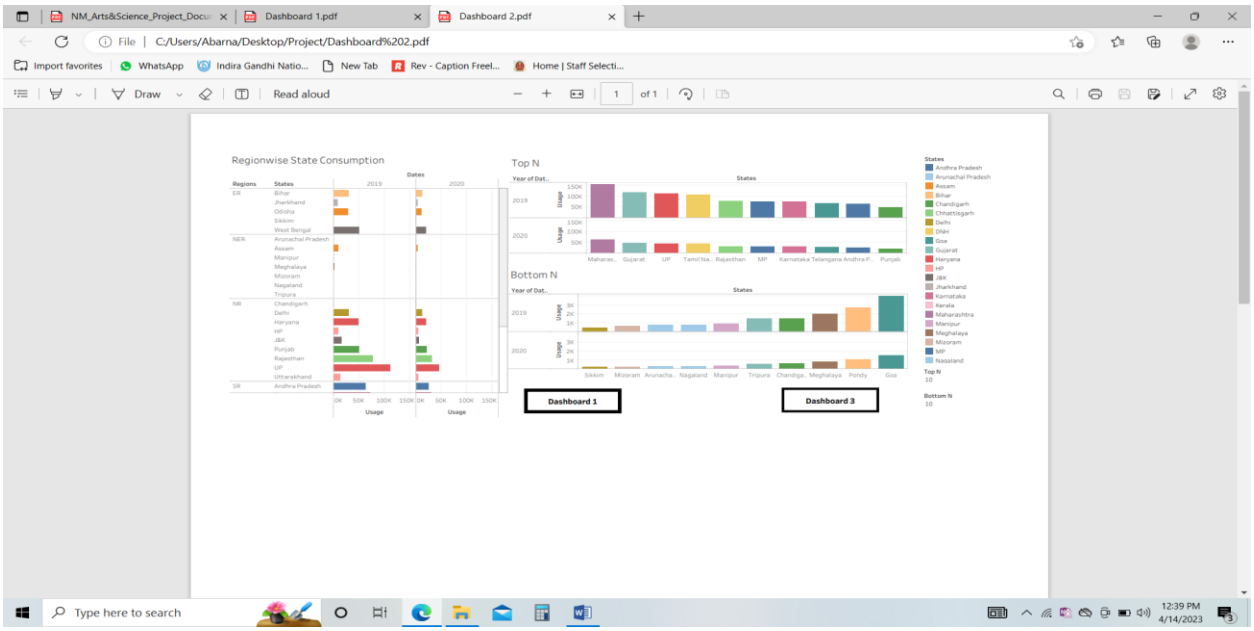


Result:

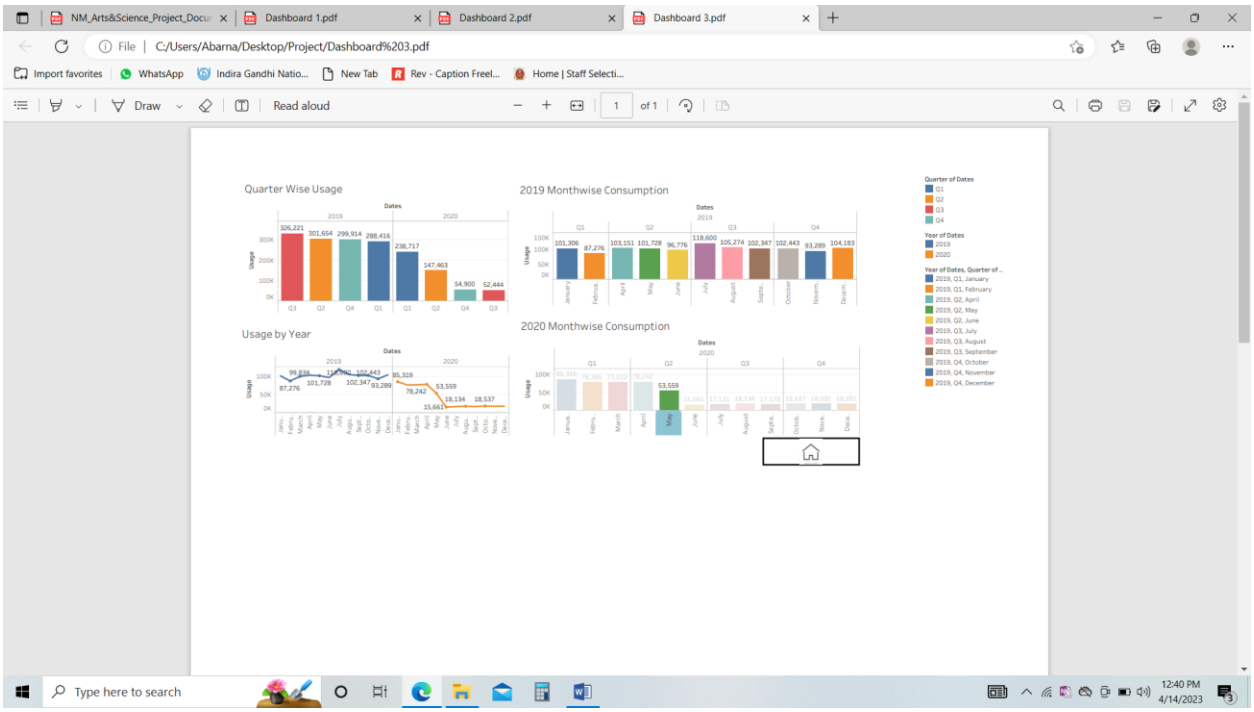
Dashboard 1



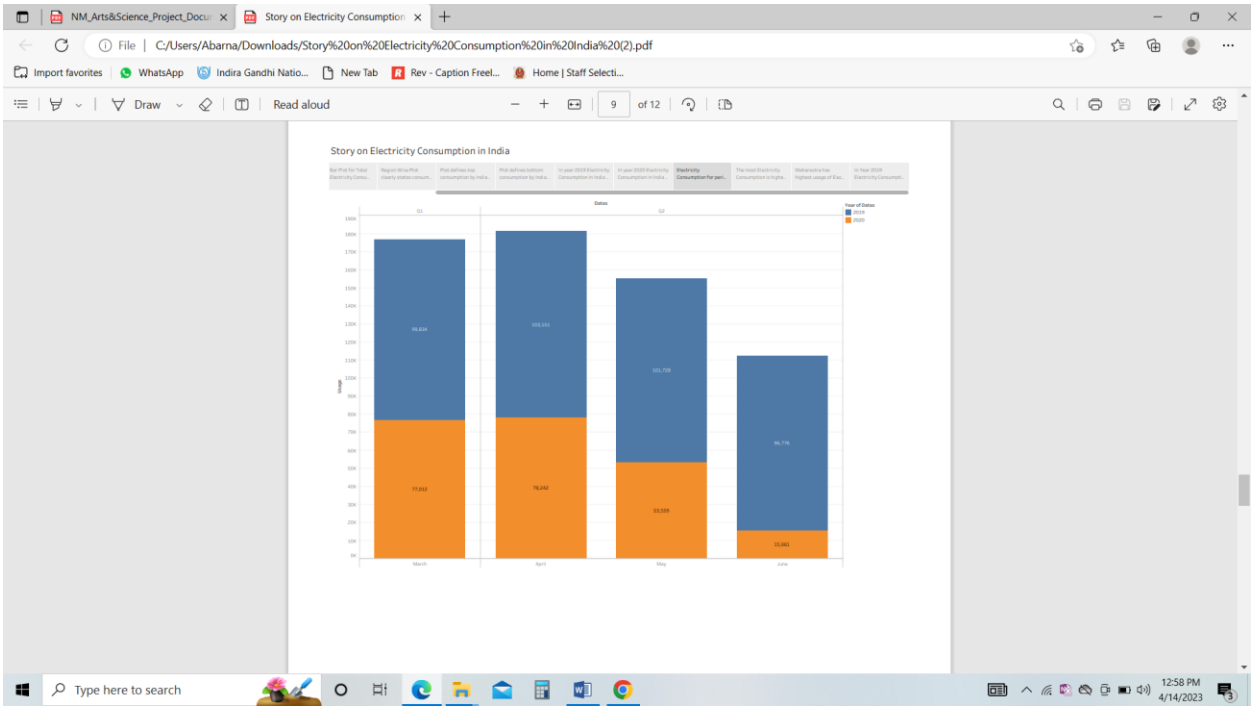
Dashboard 2



Dashboard 3



Story



Advantages & Disadvantages:

By analyzing the given data, we identified the states which use enormous amount of electricity. We found metro cities like Maharashtra consumed large amount of electricity followed by Gujarat, UP, TN, Rajasthan, MP, Karnataka, Telangana and so on. We also found that electricity consumption during covid-19 reached its peak in India. We found a large drop in electricity consumption in 2020 compared to 2019 which is our covid-19 period.

Since we have small sample data, we cannot predict the result to be absolute true.

Applications:

From the output, we found the states where electricity consumption is quite high. This will help us to take necessary steps to reduce electricity consumption in these states.

Conclusion:

The data of 2019 and 2020 electricity consumption were studied and categorized into various criteria. Then by combining them, it was found that electricity consumption is quite high in 2019 compared to 2020. The Western Region has the highest consumption of electricity. In the month of June of 2019 and January of 2020, electricity consumption was very high. By comparison, metro cities are the higher consumer of electricity. One of the metro cities Maharashtra is found to be the highest consumer of electricity.

Future scope:

This data analyzes can help to identify patterns and trends in electricity usage, identify opportunities for electricity consumption.