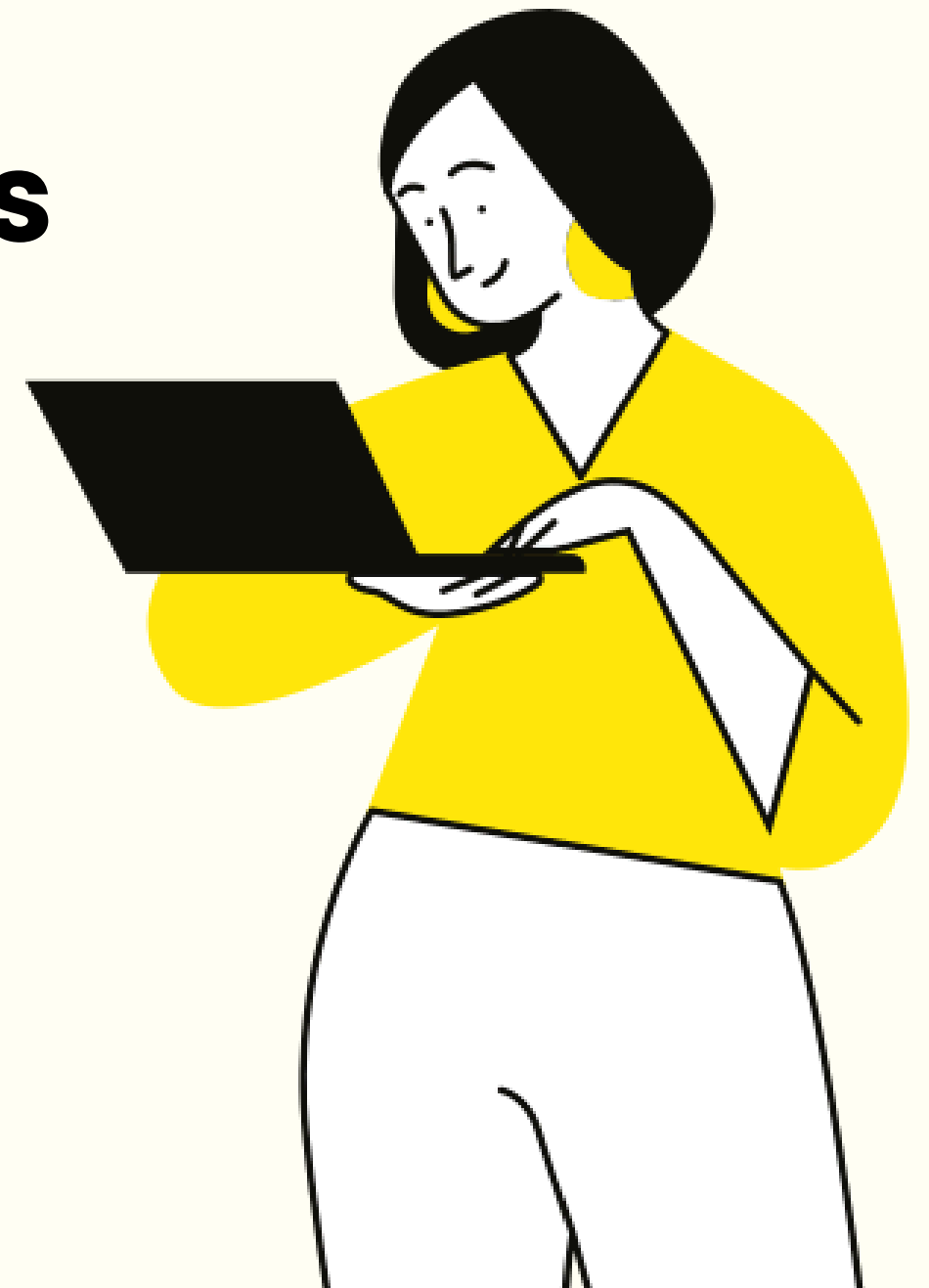


Flipkart 

Customer Service Operations – Data Analysis



Agenda



1

Overview

2

Users Journey

3

Metrics and Hypothesis

4

Analysis

5

Insights

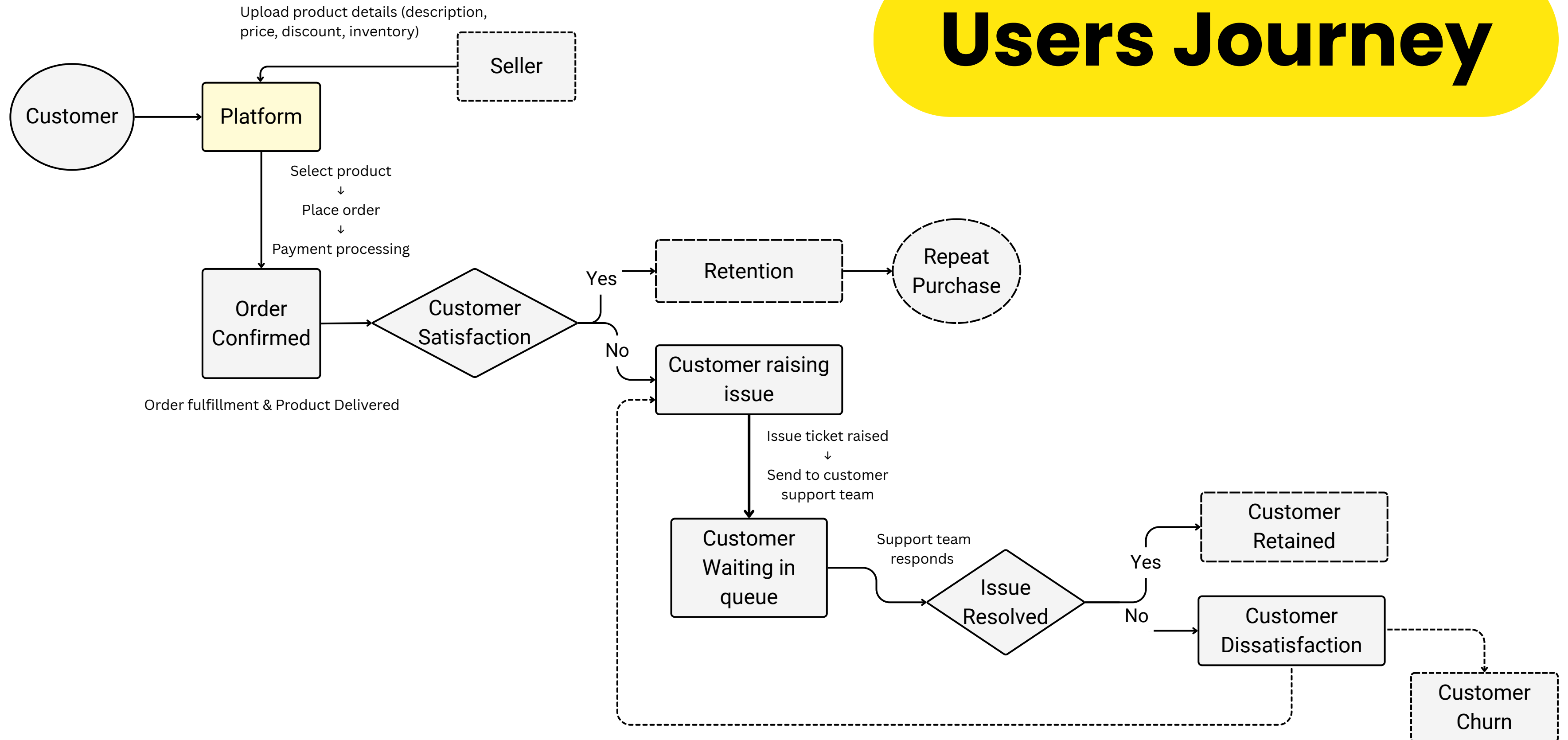
Overview

Flipkart, a leading Indian e-commerce platform, is seeking to understand the impact of customer service on customer retention. Flipkart aims to identify key performance indicators and underlying trends influencing customer satisfaction.

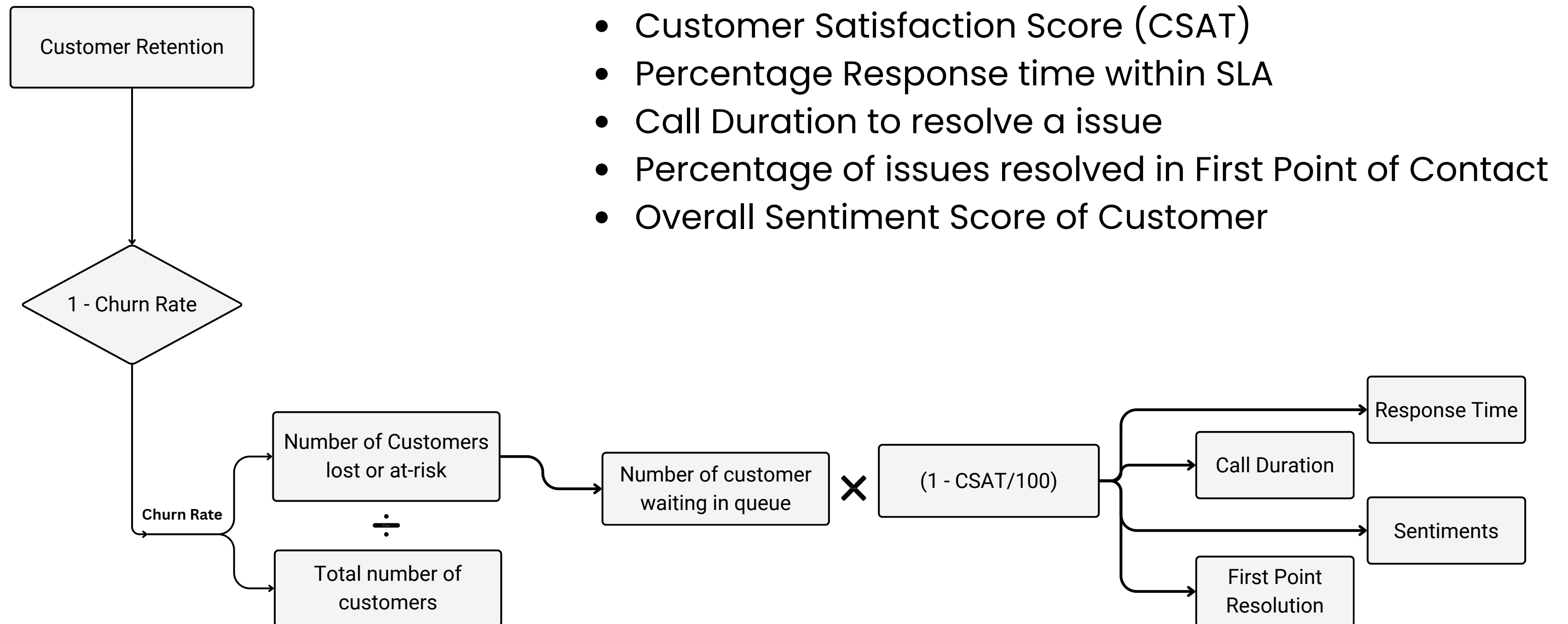


Objective of this project is to analyse customer call data and assess various aspects of customer service performance to determine if and how it impacts customer retention.

Users Journey

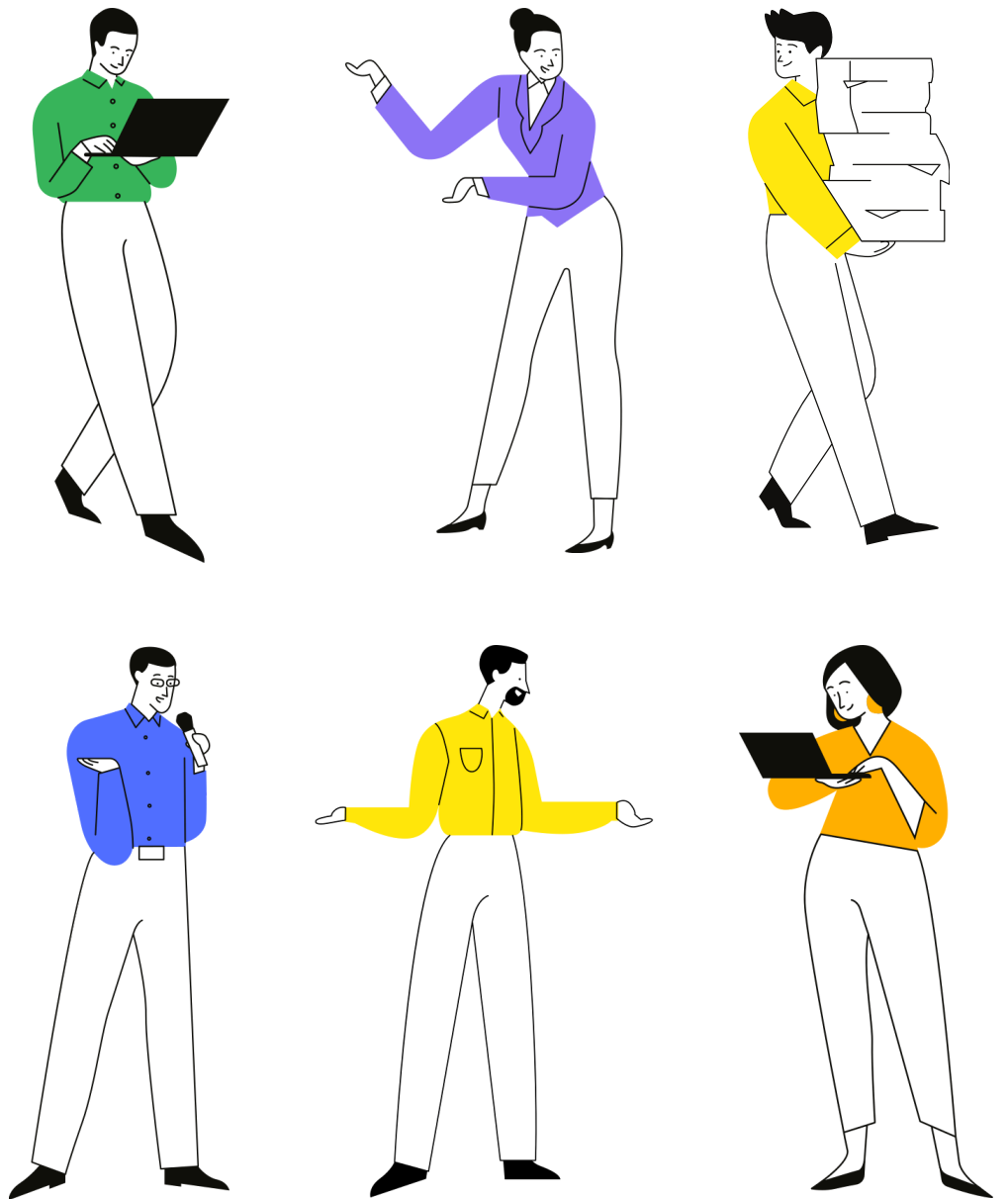


Metrics Tree & KPIs



Hypothesis

- Customer service performance varies across call centers based on factors such as response time, call duration, and issue handling capability, leading to difference in CSAT score
- Customer service performance and issue distribution vary across weekdays due to changing customer demand and issue type, which impacts overall CSAT scores.
- Different issue types generate varying levels of customer sentiments, and higher sentiments score are associated with higher CSAT scores, while longer resolution interactions may negatively impact score
- Customer satisfaction and sentiment vary across support channels due to differences in resolution time and certain channel-call center combinations performance is not satisfactory.



Analysis

1

Data Cleaning and Formatting

Cleaned data by handling missing values, duplicates and formatting columns

2

Data Transformation

Converted timestamps to weekdays, sentiments to numeric scores and call duration to numeric format

3

Exploratory Data Analysis

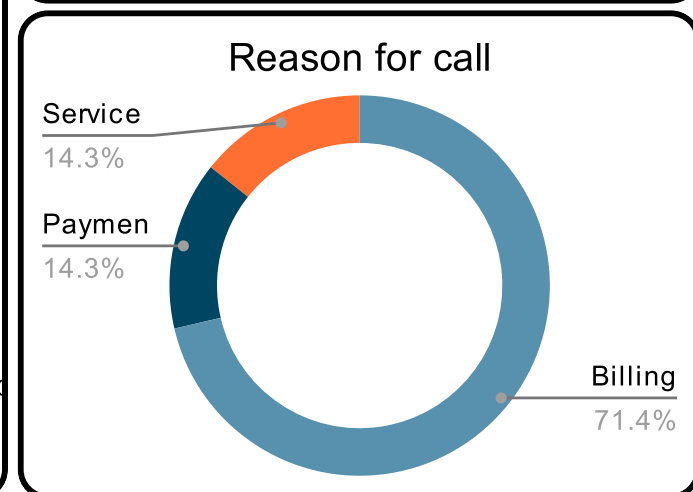
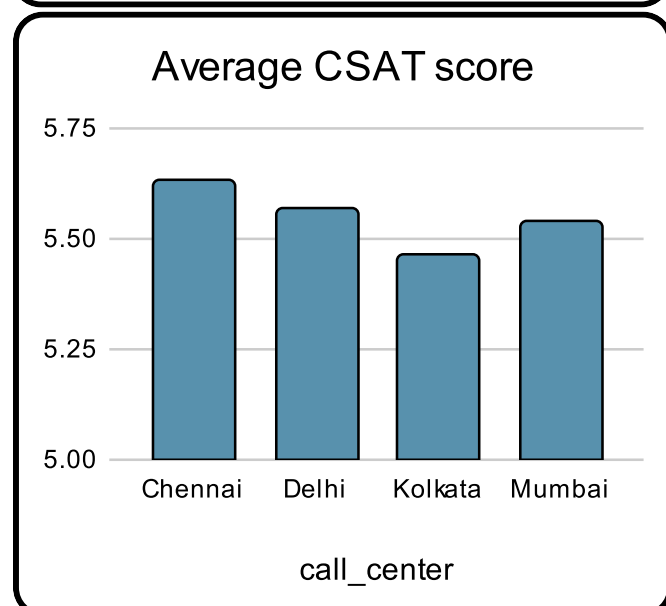
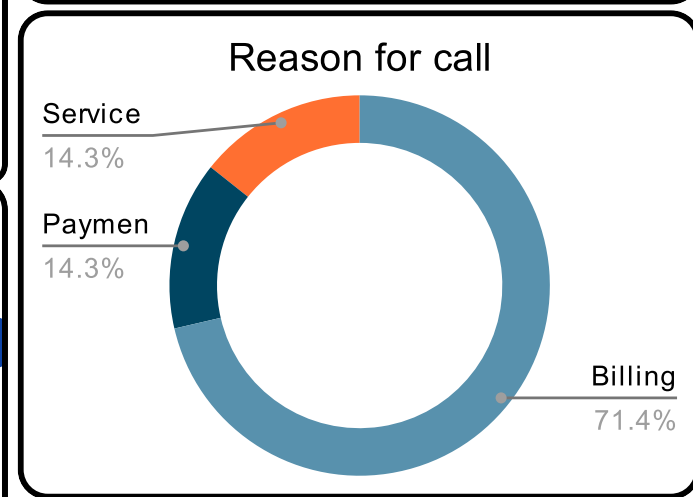
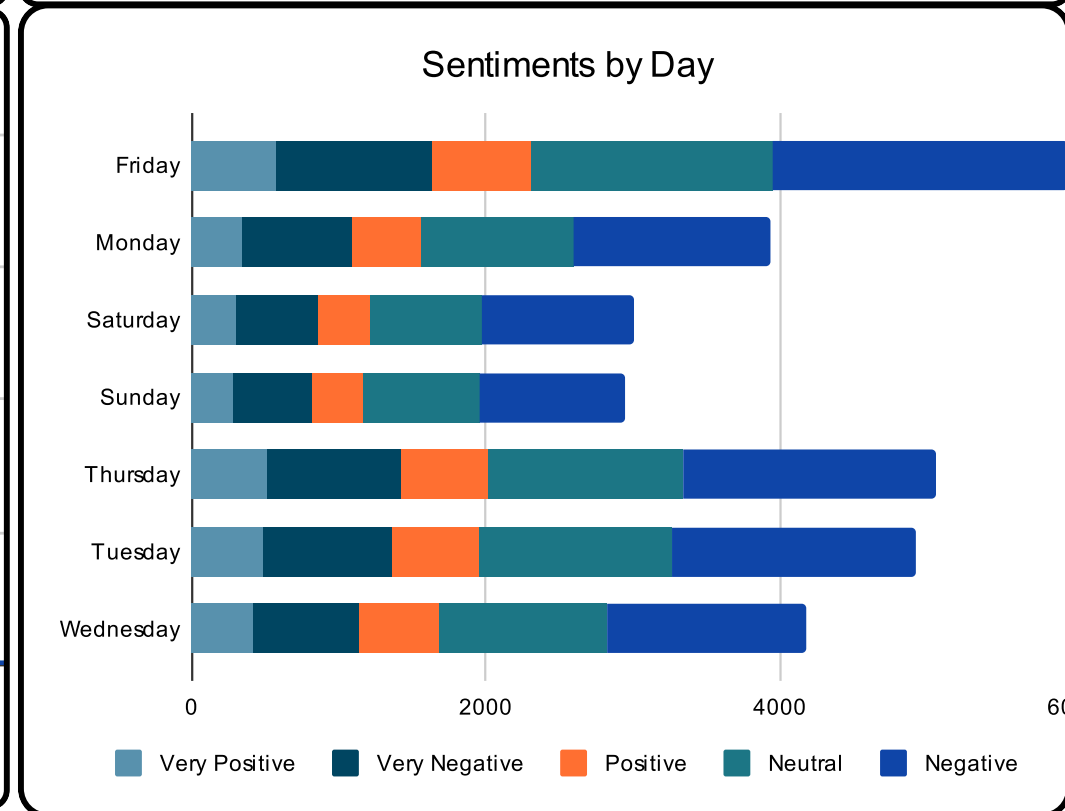
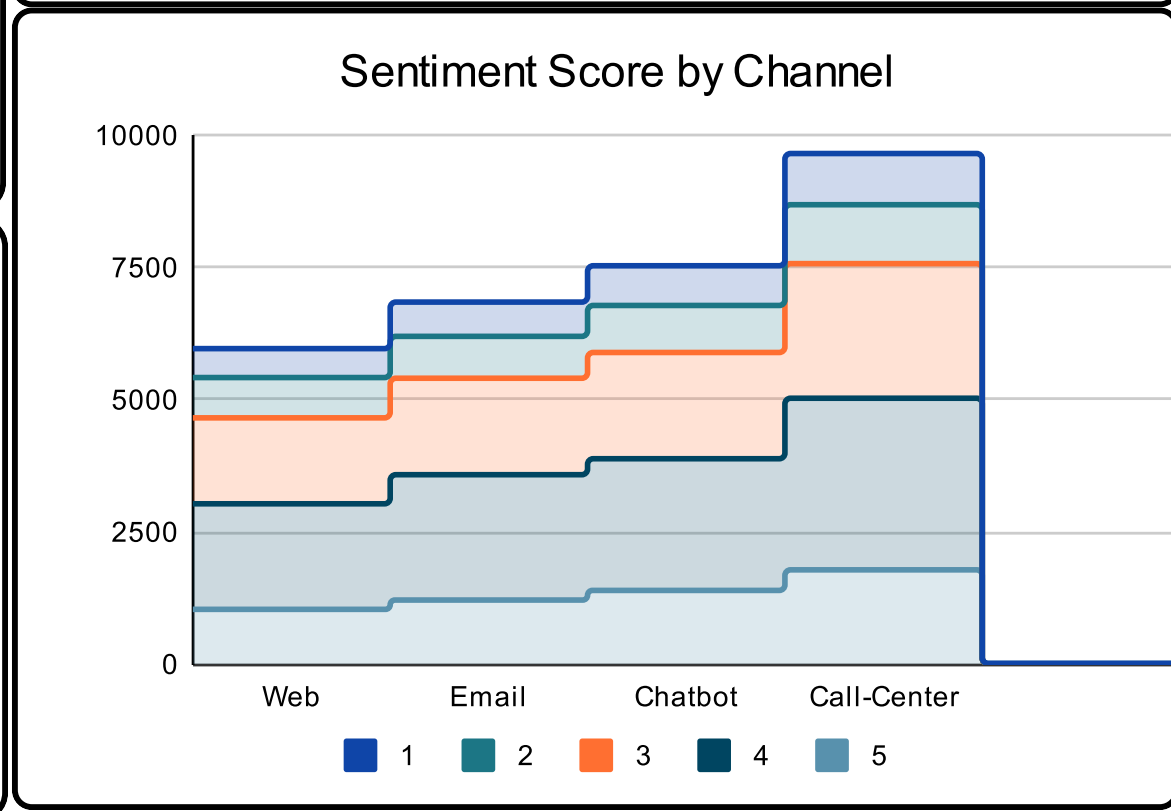
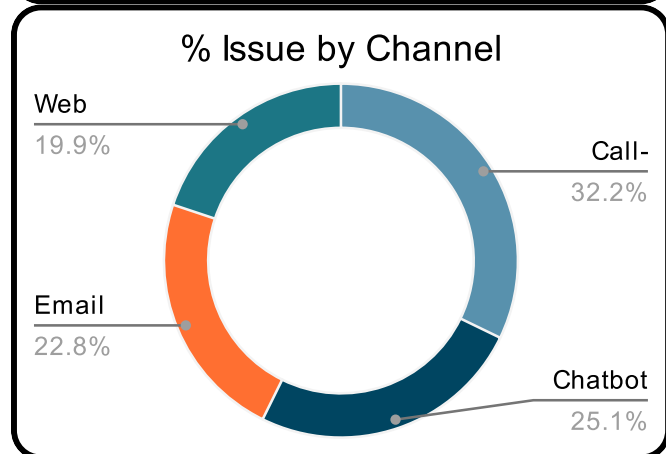
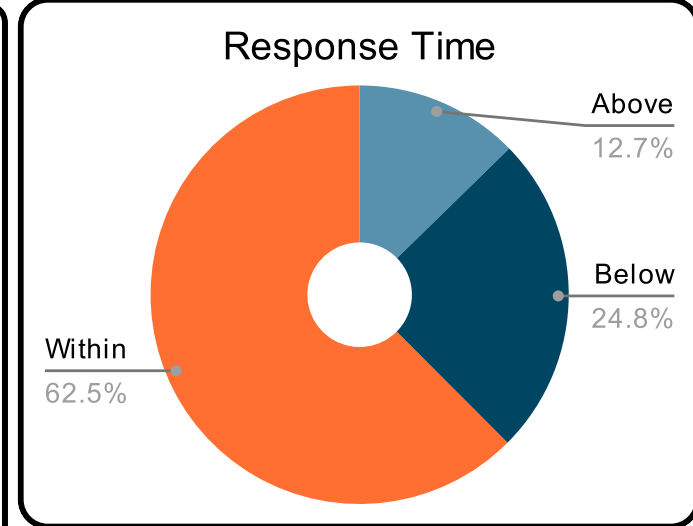
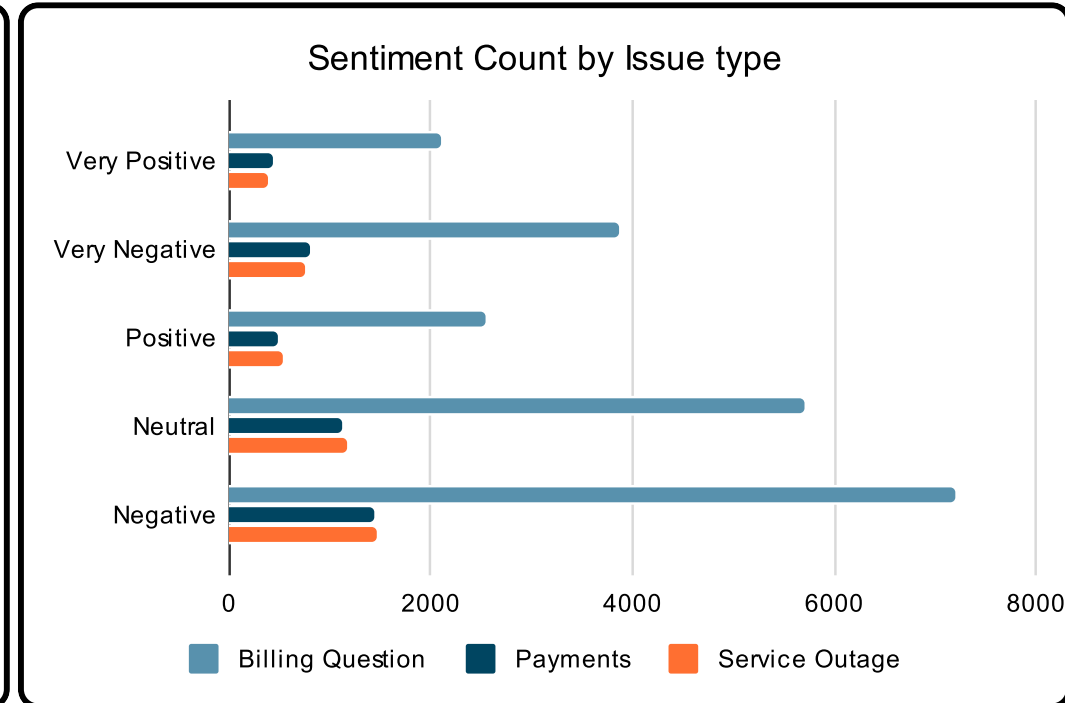
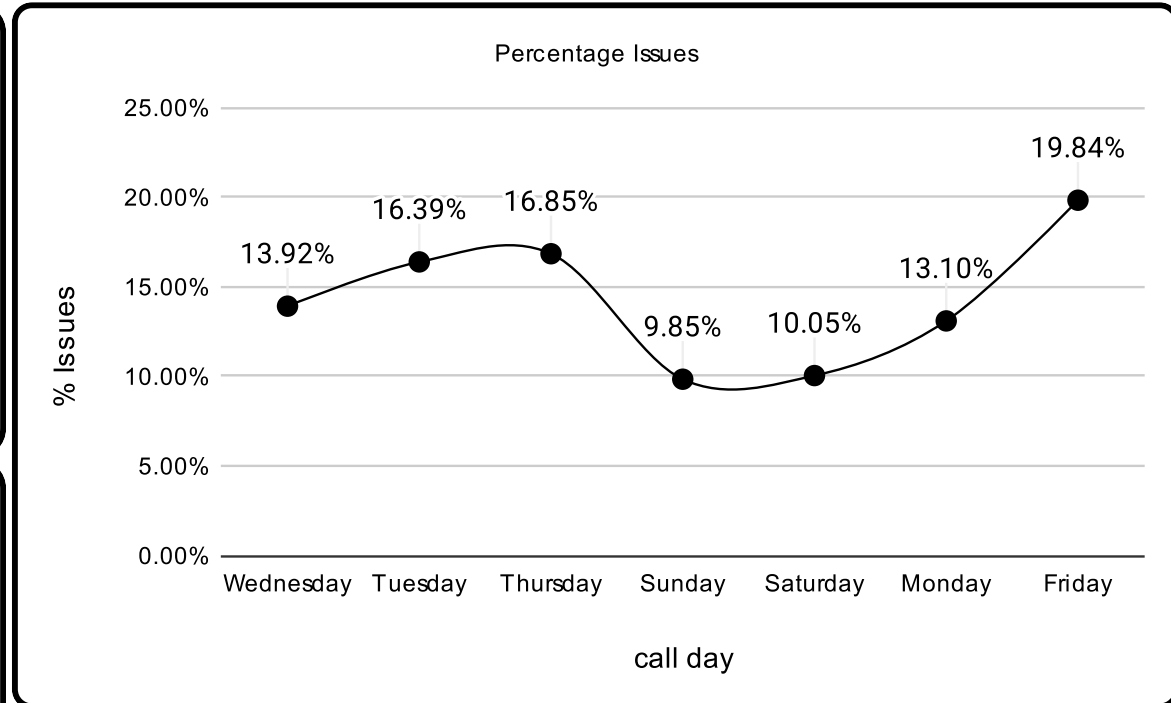
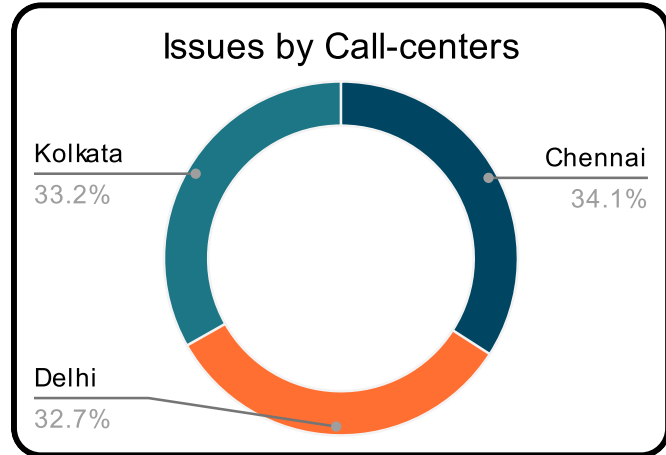
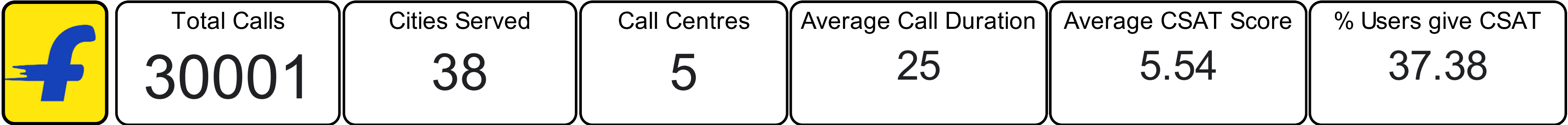
Performed EDA using pivot tables to test hypothesis and identify patterns

4

Data Visualization and Insight generation

Built pivot charts and conducted analysis to generate insights and conclusions

Dashboard



Insights

Customer satisfaction and retention are mainly influenced by issue type, sentiment and service experience rather than operational speed. High-volume billing issues, customer sentiment after resolution and channel performance play a larger role in determining CSAT, while response time and call duration have minimal direct impact on satisfaction.

Billing issues dominate service demand, contributing 71.37% of total tickets, making them the primary driver affecting overall CSAT.

Customer sentiment strongly influences satisfaction, with a high positive correlation between sentiment score and CSAT ($r \approx 0.89$).

Response time and call duration have negligible correlation between them, indicating resolution quality matters more than handling speed.

Channel performance and operational load affect experience, with chatbot interactions showing lower CSAT and high-volume days like Friday linked to lower satisfaction.

Thank You