INDIAN FOOD EDA

1.INTRODUCTION

PROJECT OVERVIEW :

Explore and analyze a dataset containing information about Indian dishes to uncover patterns trends, and insights into the deserve world of Indian cuisine. Collect data from reliable sources or use existing dataset containing details like dish names, ingredients, cooking methods, region of origin, popularity and ratings. Handle missing or inconsistent data. Standardize formats and units. Calculate basic statistics for quantitative variables.

Examine the popularity of the dishes based on frequency. Explore relationships between ingredients and dish ratings. Create graphs and charts to visually represent findings. Highlight challenges in analyzing Indian food data. Suggest opportunities for future research or applications. Summarize key findings , insights, and trends discovered by the EDA process.

PURPOSE

The purpose of conducting an Exploratory Data Analysis on Indian food is for Understanding Diversity, Insight into Preferences, Culinary Trends, Data driven decision making, cultural Application, Educational value , Opportunities for Innovation, Community Engagement. Overall, the Indian food EDA aims to provide a comprehensive and data driven understanding of the culinary landscape, contributing to both cultural appreciation practical insights for various stakeholders in the food industry.

2.LITERATURE SURVEY

EXISTING PROBLEM :

Limited availability of comprehensive and standardized datasets on Indian cuisine. Inconsistencies or inaccuracies in existing data sources. Unequal representation of regional cuisines in available datasets. Difficulty in capturing the full spectrum of India's diverse culinary tradition. Reliance on subjective ratings for dishes, which may vary widely based on individual preferences. Lack of standardized criteria for rating dishes. Difficulty in keeping up with rapidly changing food trends and evolving consumer preferences. Challenges in predicting or analyzing emerging culinary patterns. Limited availability of data spanning different time periods, hindering the analysis of temporal trends. Difficulty in tracking changes and shifts in culinary preferences over time. Impact of external factors (economic, cultural, global events) on food preferences and consumption. Difficulty in isolating and analyzing these external influences. Balancing the analysis of traditional recipes with the increasing influence of modern cooking technique.

RFERENCES:

http://tarladalal.com/

http://sanjeevkapoor.com/

http://vahrehvah.com/

http://food.ndtv.com/

PROBLEM STATEMENT DEFINITION:

Conduct an exploratory data analysis on Indian cuisine to gain insights into regional variations, popular ingredients, nutritional trends, and cooking methods, The goal is to provide a comprehensive understanding of the diverse landscape of Indian food, incorporating data from reputable sources, and presenting findings that can contribute to a deeper appreciation of this culinary heritage.
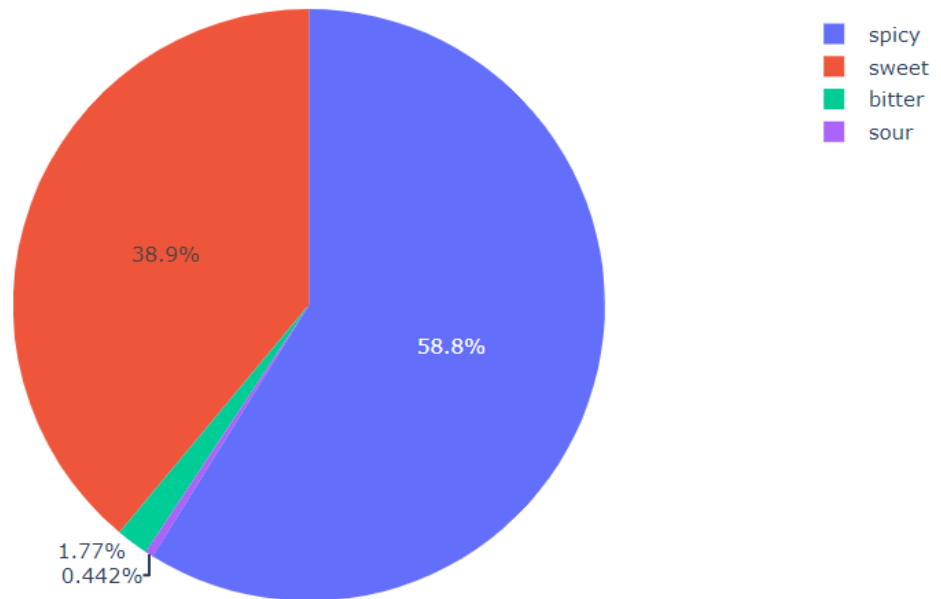
3.IDEATION AND PROPOSED SOLUTION

EMPATHY MAP CANVAS :
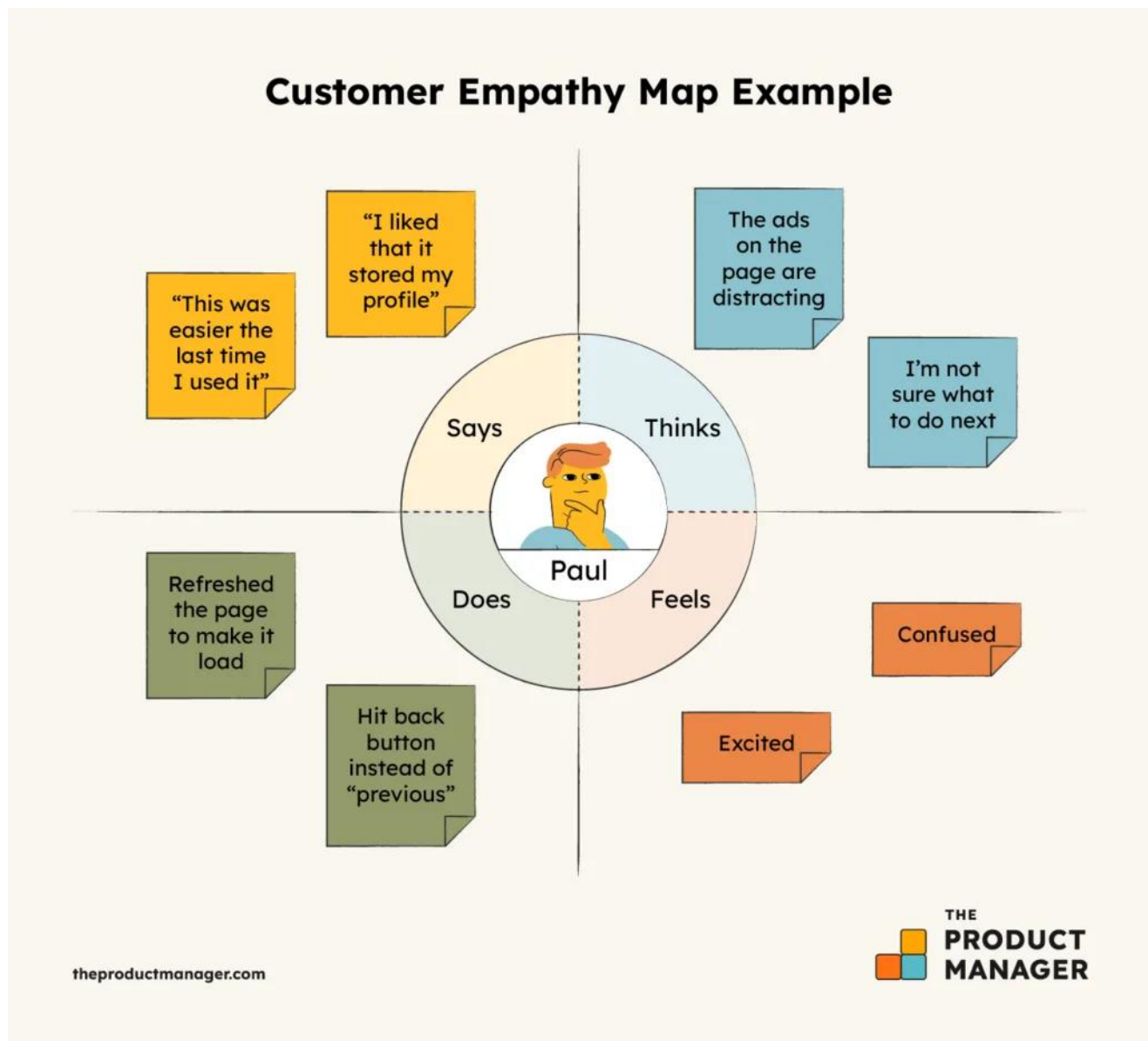
INDIAN CUISINE ANALYSIS:

Sweet or Spicy?

Legend:
- spicy
- sweet
- bitter
- sour

58.8% spicy
38.9% sweet
1.77% bitter
0.442% sour

4.REQUIREMENT ANALYSIS

Data Sources:
Identify reliable sources for Indian recipes, nutritional information, and cultural context.
Ensure a diverse representation of regional cuisines.

Data Collection:
Gather data on ingredients, cooking methods, nutritional values, and regional affiliations.
Verify the authenticity and credibility of the data sources.

Data Cleaning:
Address missing or inconsistent data.
Standardize units and formats for consistency.

Exploratory Data Analysis (EDA):
Explore regional variations in cuisine.
Analyze ingredient popularity and frequency.
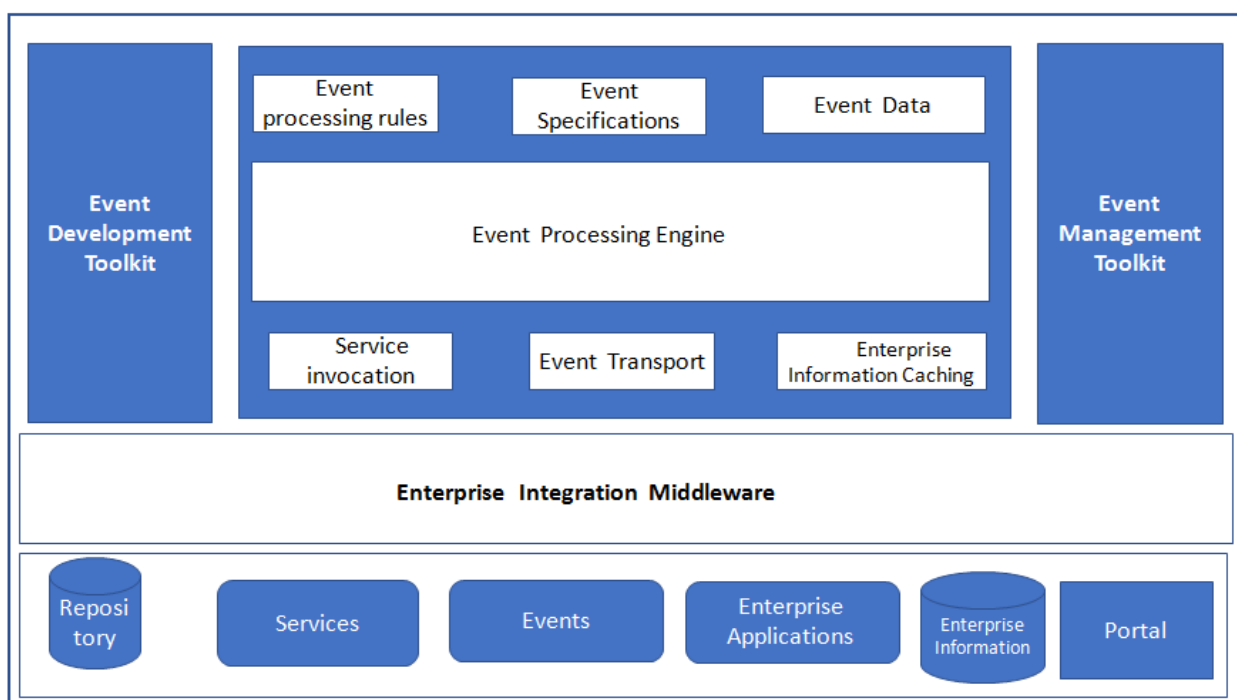Examine nutritional trends and common cooking method

PROJECT DESIGN

DATA FLOW DIAGRAM AND USER STORIES :

Data Flow Diagrams:
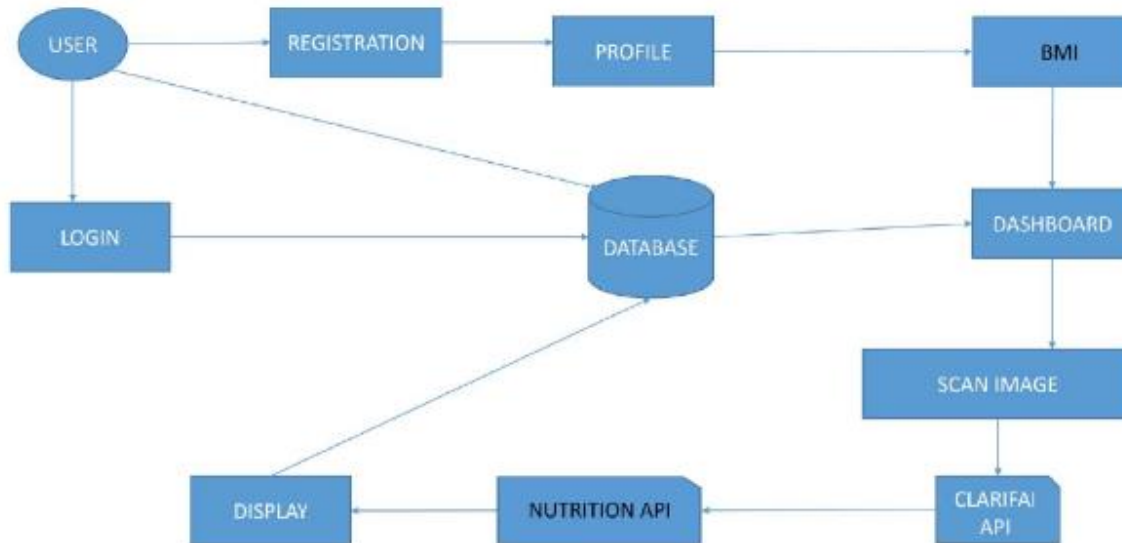
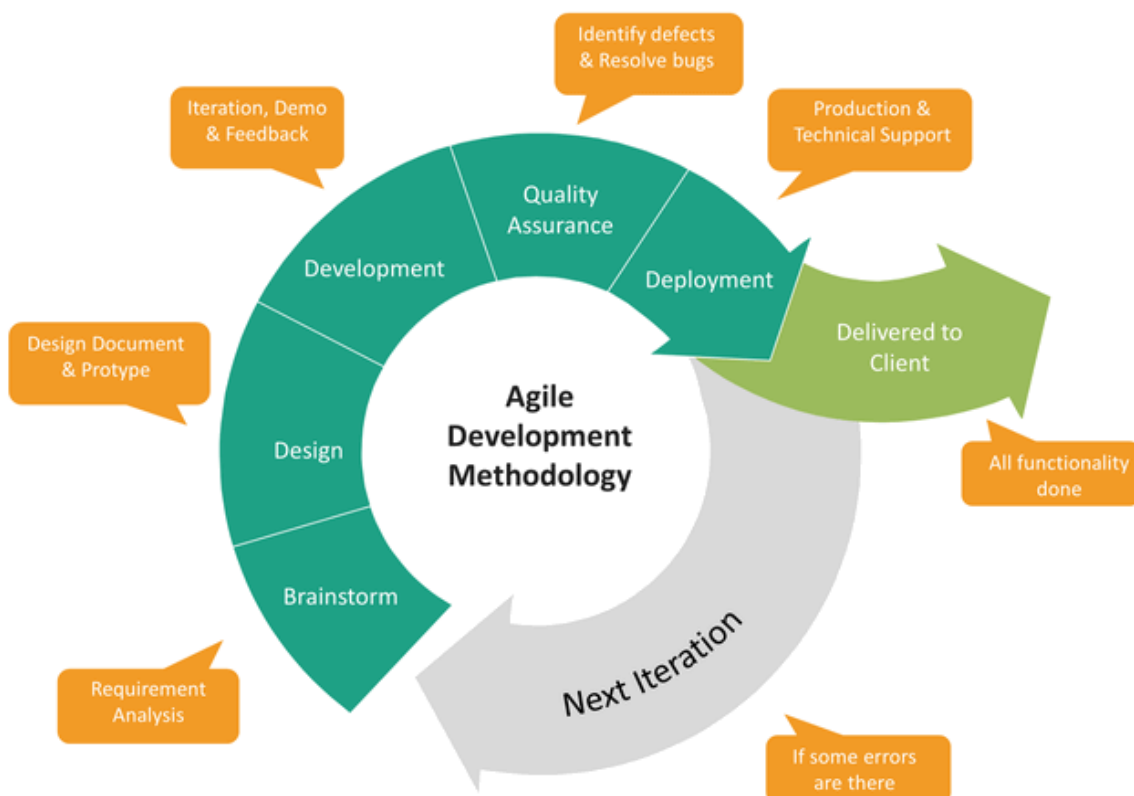**6.PROJECT PLANNING AND SCHEDULING**
TECHNICAL ARCHITECTURE :

SPRINT PLANNING AND ESTIMATION :

Sprint planning is an event in scrum that defines what can be delivered in the upcoming sprint and how that work will be achieved.
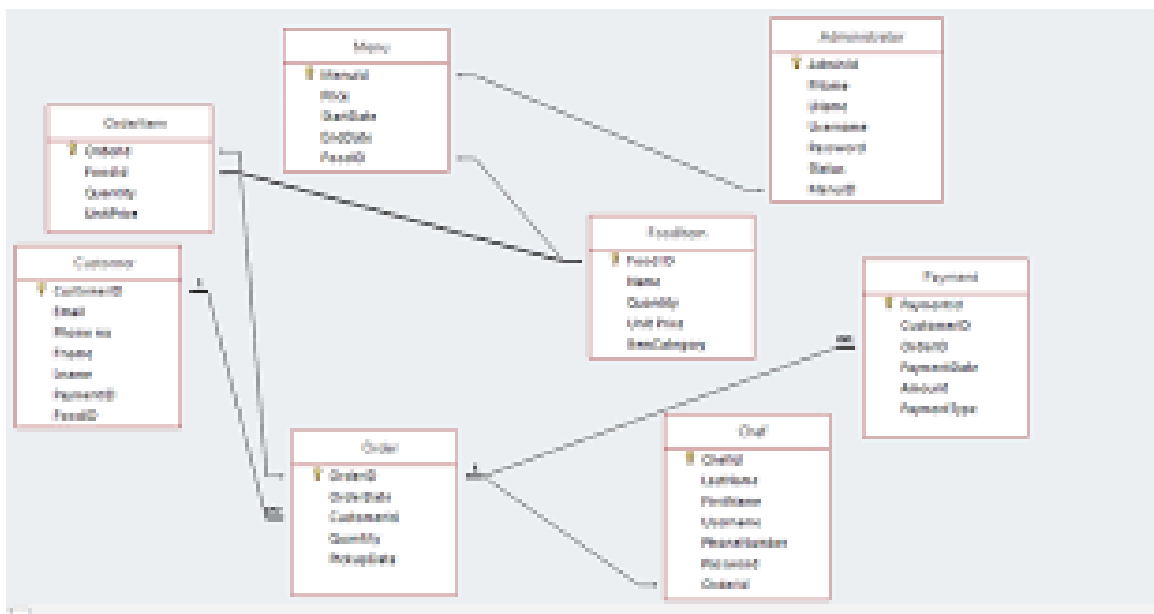

AGILE METHODOLOGY:

7.CODING AND SOLUTIONING

FEATURES :

1. Responsive & Mobile-Friendly Design
2. Smart Booking Process
3. Clear and Structured Website Navigation
4. Booking Details & Email Notification
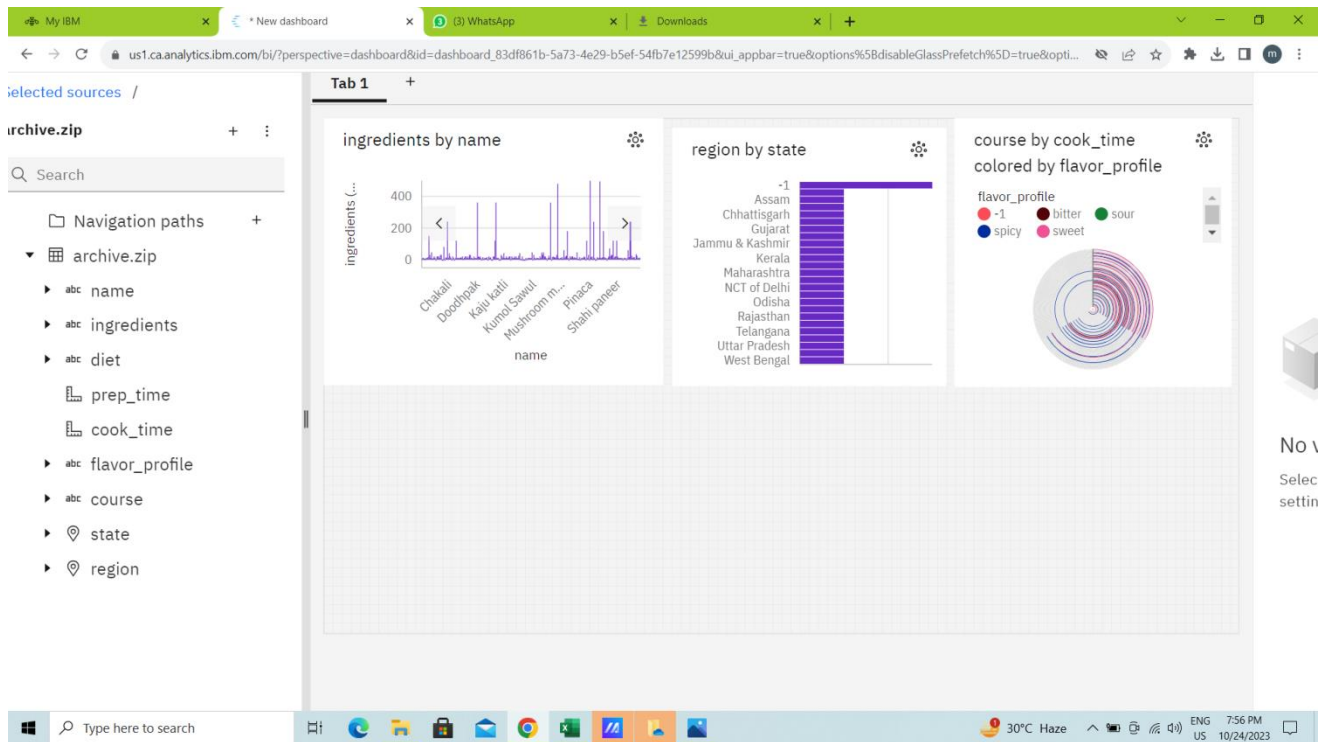5. Story
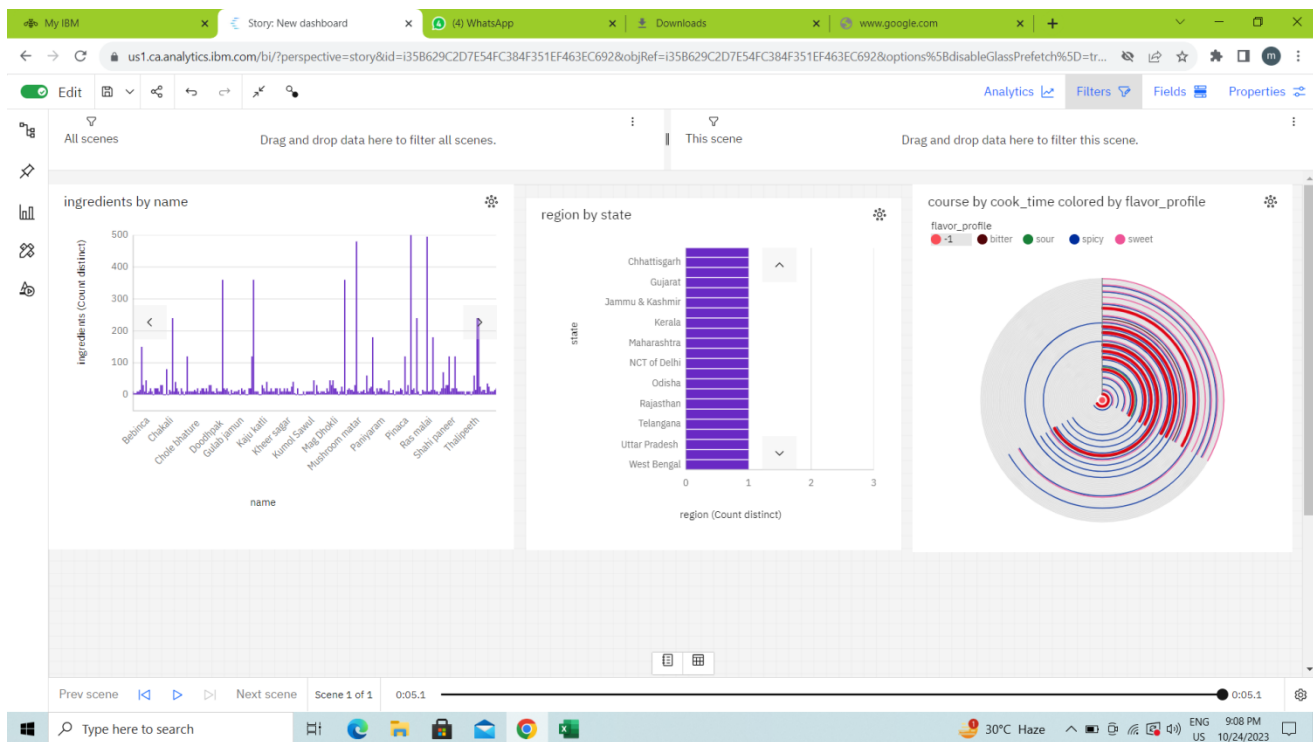6. Report

DATABASE SCHEMA :

7.PERFORMANCE TESTING

PERFORMANCE METRICS :

- Acquisition analytics
- Demand analytics
- Revenue analytics
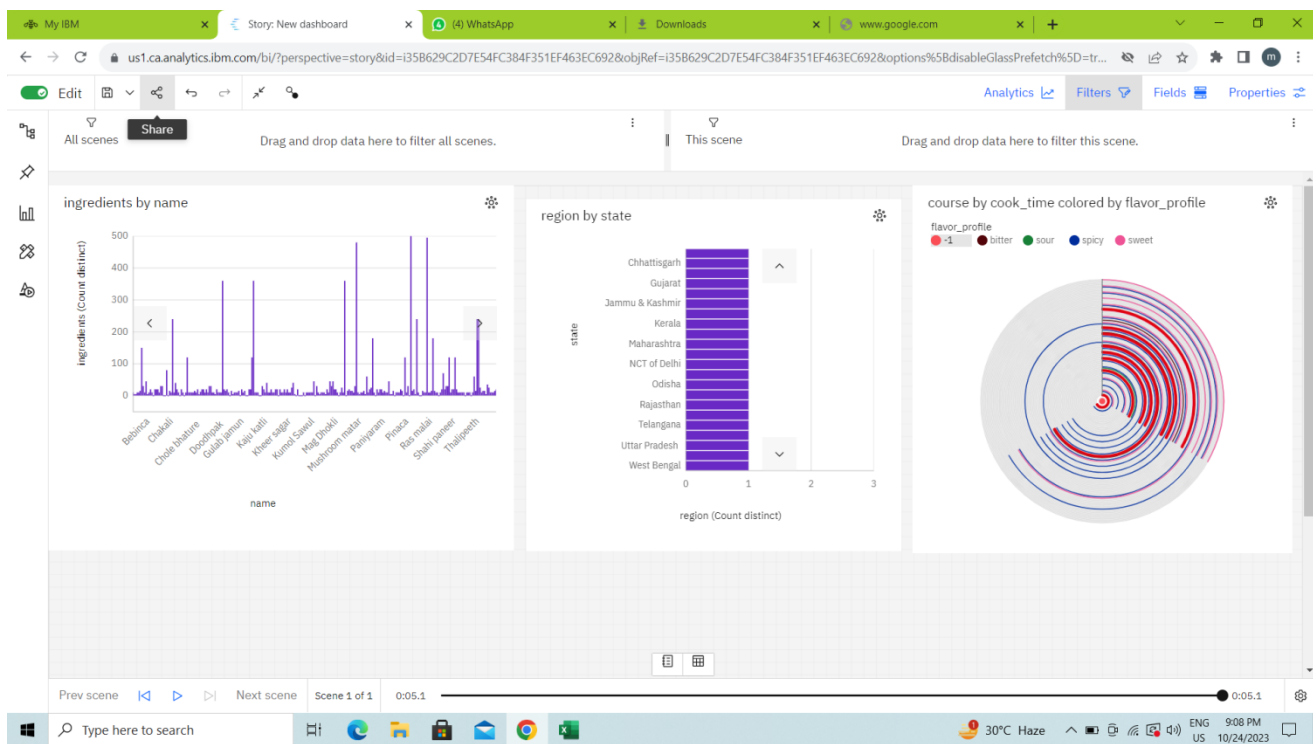- Supplier analytics
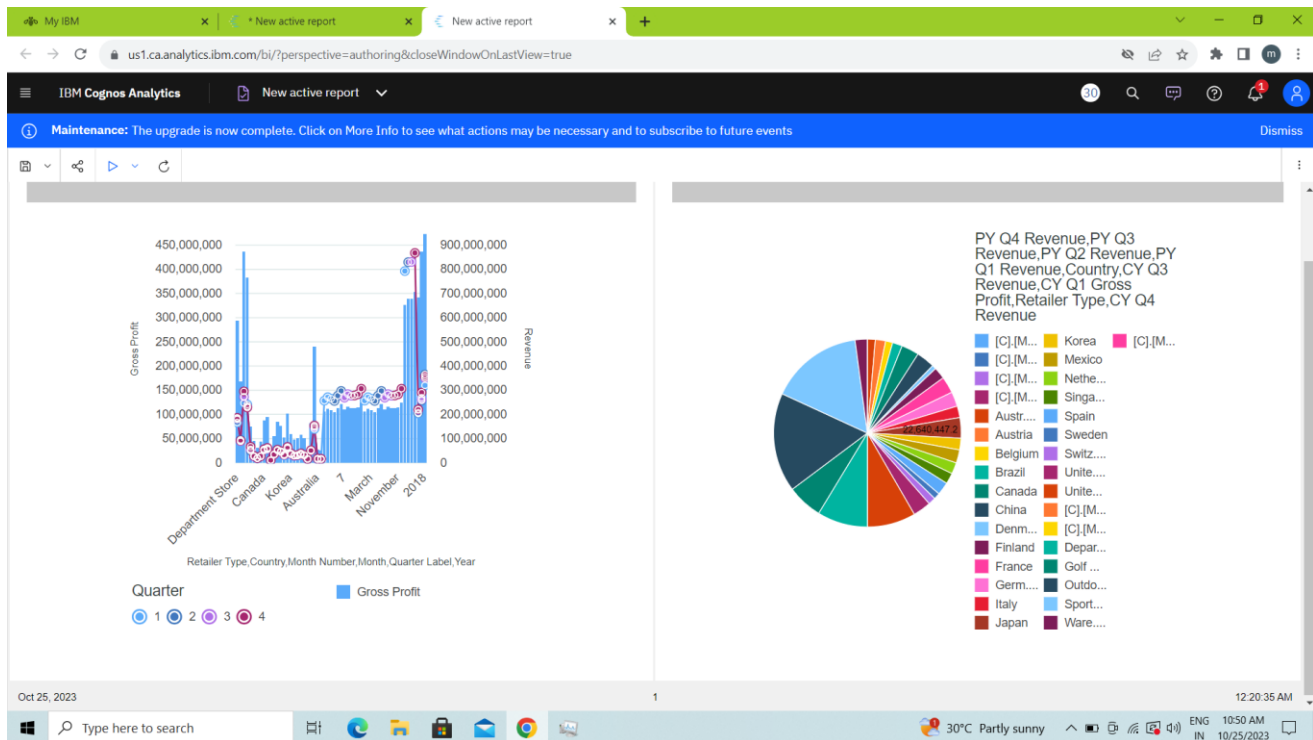- Usability and product analytics

8.RESULTS:

DASHBOARD;

STORY;

REPORT;

6.ADVANTAGES AND DISADVANTAGES

ADVANTAGES :

1. Cultural Understanding
2.. Regional Appreciation.
3. Culinary Education
4. Promotion of Diversity

DISADVANTAGES :

1. Lack of standardization
2. Privacy Concerns
3. Bias in Data Sources
4. Cultural Sensitivity

SUBMITTED BY

NM ID'S of TEAM MEMBERS: 95676B7A282C32A995E49B46141247EC
                        80BEC5658D377619C5A4896F644422B5
                        E49102A1A4A2B6FB63E4F2163E62132D
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