



Tech Saksham

Case Study Report

Data Analytics with Power BI

“360-DEGREE BUSINESS ANALYSIS OF ONLINE DELIVERY APPS”

**“GOVERNMENT ARTS & SCIENCE COLLEGE
EDAPPADI”**

NM ID	NAME
F3F830FAD069A79B75B4324F7C706B82	NAGARAJ S

Trainer Name: D PALANISAMY

Master Trainer: D.PALANISAMY

ABSTRACT

In the digital world, Online food ordering system is mainly designed primarily function for use in the food delivery industry. This system will allow hotels and restaurants to increase online food ordering such type of business. The customers can be selected food menu items just few minutes. In the modern food industries allows to quickly and easily delivery on customer place. Restaurant employees then use these orders through an easy to delivery on customer place easy find out navigate graphical interface for efficient processing.

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CHAPTER 1

INTRODUCTION

1.1 Problem Statement:

Different food delivery applications often provide different offers or discounts. Users are also not satisfied with their delivery time and random cancellations.

The current food delivery applications provide different discounts on the same item but in different platform. It is also seen that delivery time of an item is not same in all the applications. Adding all the discounts and estimated delivery time of different food joints under a single interface will be economical and less time consuming.

1.2 Proposed Solution:

The proposed solution is to develop a Power-BI dashboard that can analyze and visualize Business Analysis of food delivery App. It's time to create solutions for the problem. To understand their situation, I have to step into their shoes. Here are the ideas that I have thought of Bringing discounts and offers of different applications under a single interface. Comparing the delivery time of different apps together. Users will get an idea of the timings and they can choose accordingly. No cancellation guarantee should be provided before placing an order maybe in form of an icon which can be accessed by the restaurant manager and connected to their website.

1.3 Feature:

- **Real-Time Order Tracking:** The dashboard will provide real-time order tracking of Hungry customers want their meals delivered fast.
- **Customer Segmentation:** It will segment customers based on perceptions about service quality, bargain hunter, impatient, interested in new innovations, etc.
- **Trend Analysis:** The dashboard will identify and display trends in customer behavior.
- **Predictive Analysis:** It will use historical data to predict future customer behavior.

1.4 Advantages:

- **Time saving:** To save consumers' time by removing the need to go to restaurants in person or stand in queue for takeaway orders.
- **Promotions and Discounts:** To provide exclusive offers, discounts, and loyalty awards to draw in new clients and keep existing ones coming back.
- **Revenue Generation:** Bring money through delivery fees, commissions from affiliated eateries, and prospective advertising opportunities.

1.5 Scope

Food delivery apps are third-party services that connect restaurants with customers, convenience stores, and more. In such a technological era, people find it difficult to visit restaurants. Most often, they are unable to manage time for picking up their order. Therefore, most of them like to use the food delivery app. They allow customers to order food from restaurants, compare prices, and see estimated delivery times. Food delivery apps also help restaurants improve customer satisfaction by reducing wait times and helping employees connect with customers.

CHAPTER 2 SERVICES AND TOOLS REQUIRED

2.1 Services Used:

There are numerous benefits of online food delivery service, such as

- Audiences can make orders from anywhere else.
- The online delivery service saves time from the customer side.
- Restaurants can collect better customer data.
- Most restaurants offer online **food delivery 24 hours**. That's why customers can make **late night food delivery orders**.

2.2 Tools and Software used Tools:

- **Power BI**: The main tool for this project is Power BI, which will be used to create interactive dashboards for real-time data visualization.
- **Power Query**: This is a data connection technology that enables you to discover, connect, combine, and refine data across a wide variety of sources.

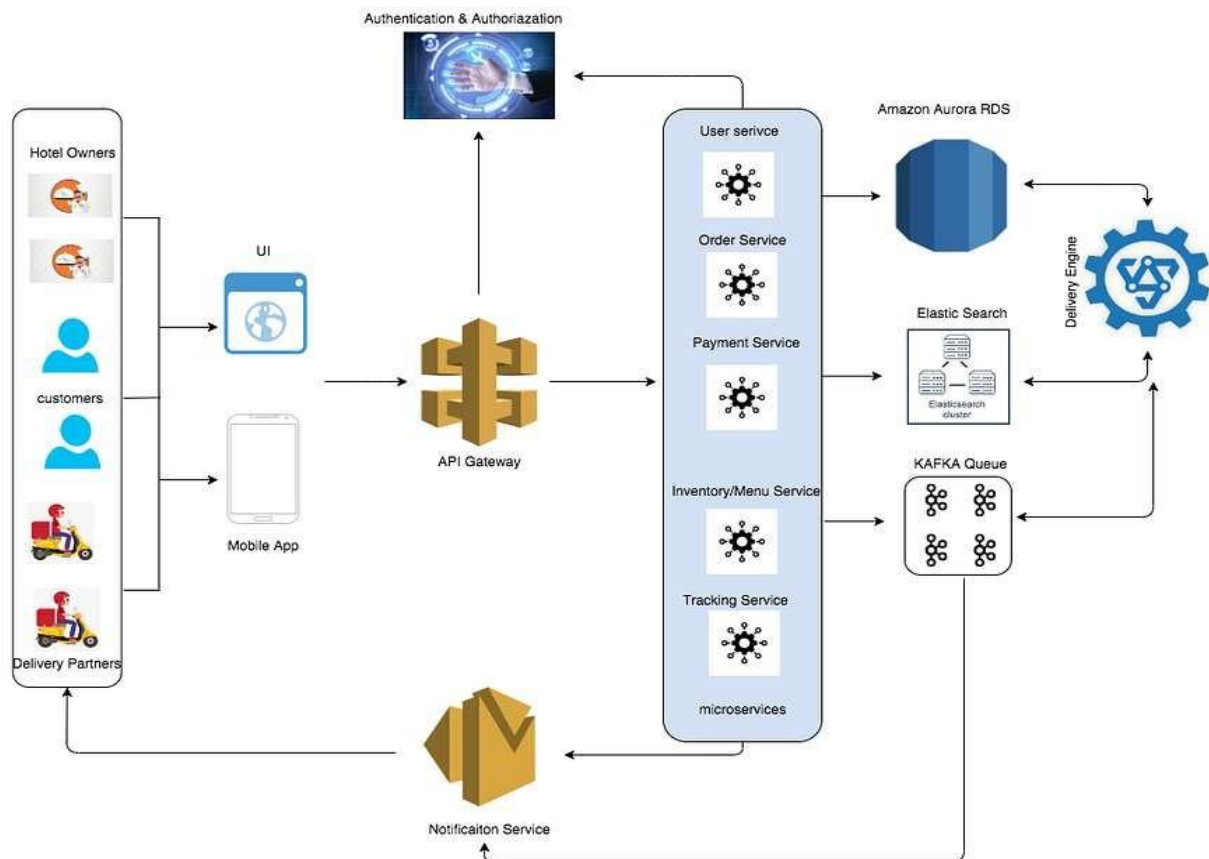
Software Requirements:

- **Power BI Desktop**: This is a Windows application that you can use to create reports and publish them to Power BI.
- **Power BI Service**: This is an online SaaS (Software as a Service) service that you use to publish reports, create new dashboards, and share insights.
- **Power BI Mobile**: This is a mobile application that you can use to access your reports and dashboards on the go.

CHAPTER 3

PROJECT ARCHITECTURE

3.1 Architecture



Here's a high-level architecture for the project:

1. **Data Storage:** Food delivery apps use databases to store data about users, restaurants, orders, and more.
2. **Data Processing:** Food delivery apps can use data to help improve customer satisfaction, build brand image, and increase sales.
3. **Machine Learning:** Food delivery apps use machine learning to improve their algorithms, which can help users get a more personalized experience. For example, Zomato uses machine learning to automate menu digitization, create personalized restaurant listings, and predict food preparation times.
4. **Data Visualization:** The processed data and the results from the predictive models are visualized in real-time using Power BI. Power BI allows you to create interactive dashboards that can provide valuable insights into the data.
5. **Data Access:** The dashboards created in Power BI can be accessed through Power BI Desktop, Power BI Service (online), and Power BI Mobile.

This architecture provides a comprehensive solution for real-time analysis of food delivery apps. However, it's important to note that the specific architecture may vary depending on the food delivery connection, specific requirements, and budget. It's also important to

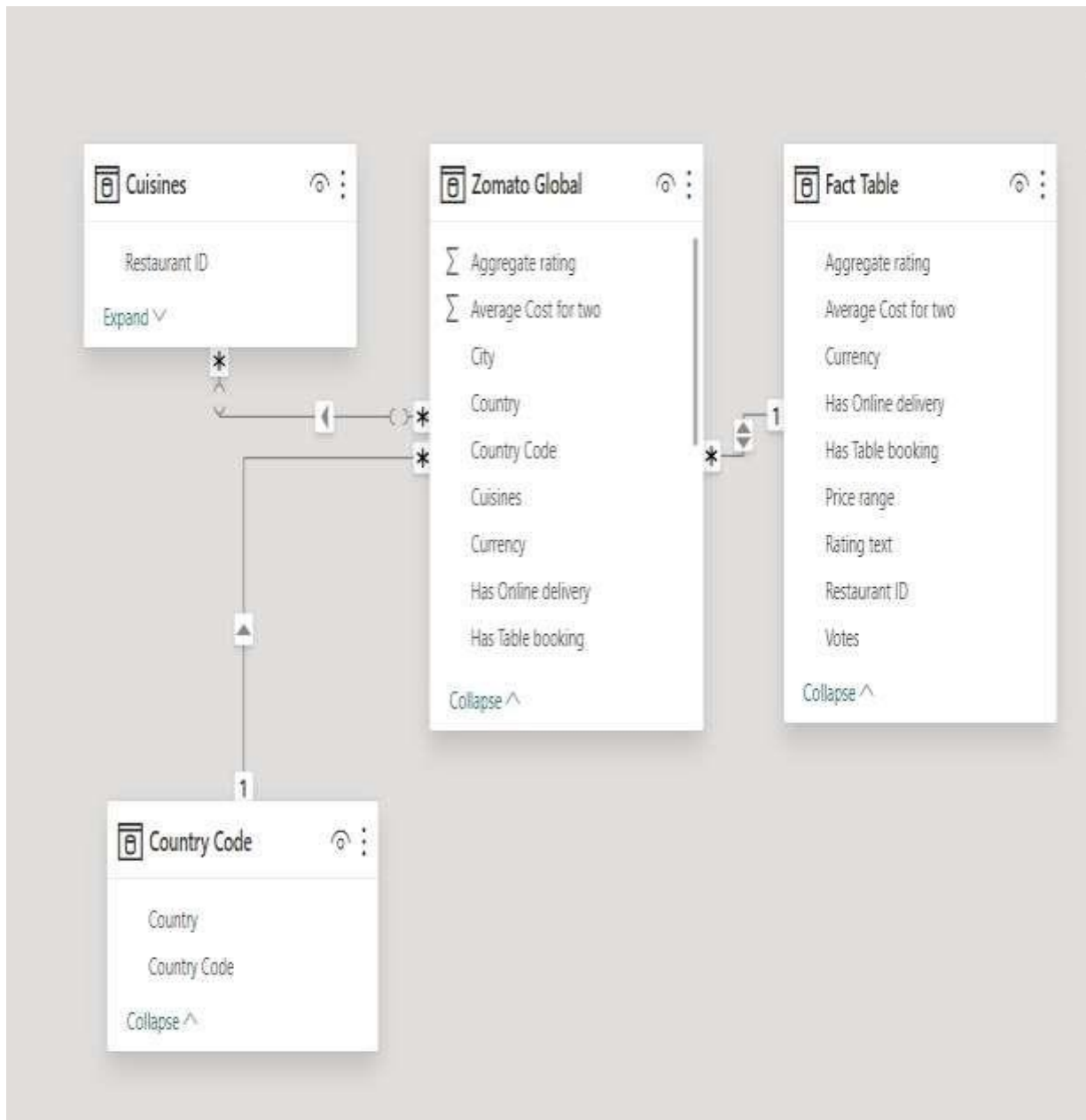
ensure that all tools and services comply with relevant data privacy and security regulations.

CHAPTER 4

MODELING AND RESULT

Manage relationship

The “cuisines” file will be used as the main connector as it contains most key identifier (Restaurant ID, Fact table and Zomato global) which can be used to relate the 4 data files together. The “country code” file is used to link the client profile geographically with “Zomato global”

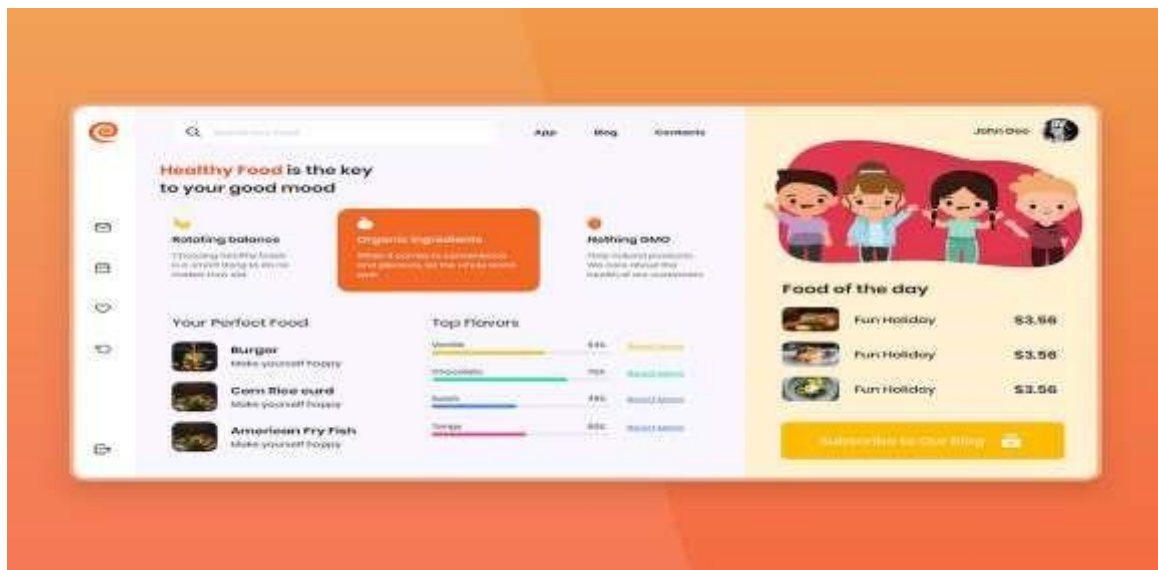


Country Code	Country
94	Indonesia
191	Sri Lanka
214	UAE
1	India
30	Brazil
14	Australia
208	Turkey
189	South Africa
216	United States
215	United Kingdom
162	Philippines
166	Qatar
37	Canada
148	New Zealand
184	Singapore

Response ID	Country Code	City	Response Date	Response Address	Locality	Locality Name	Longitude	Latitude	City Name	Response Date (UTC)	Country	City
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191	Sri Lanka	Asia
214	UAE	Asia
1	India	Asia
30	Brazil	South America
14	Australia	Oceania
208	Turkey	Asia
189	South Africa	Africa
216	United States	North America
215	United Kingdom	Europe
162	Philippines	Asia
166	Qatar	Asia
37	Canada	North America
148	New Zealand	Oceania
184	Singapore	Asia

Dashboard



CONCLUSION

Nowadays, the traditional way of going to a restaurant and eating has reduced considerably. It's a new age where technology dominates human life. With the software and technological devices, exceptions are reduced and even terminated. Also, people prefer easy, quick and safe access to everything. This project is designed to meet the requirements of a restaurant. The Online Food Ordering System provides a simple way to store details of the customer, food items available and to generate the bill. It is an interface that allows the customer to order the desired food which he/she can relish within a span of forty-five minutes.

The project is designed in such a way that the user can modify the primary information required to manage their profile successfully such as the information about the deliver address and contact number. With this platform we developed, we are hoping to reduce time wasting, avoid misunderstandings, provide easy data flow, customer pleasure, and less hard work. We believe that we have accomplished our goals and satisfied with the code we developed.

FUTURE SCOPE

The future scope of this project is vast. With the advent of advanced analytics and machine learning, Power BI can be leveraged to predict future trends based on historical data. Integrating these predictive analytics into the project could enable the bank to anticipate customer needs and proactively offer solutions. Furthermore, Power BI's capability to integrate with various data sources opens up the possibility of incorporating more diverse datasets for a more holistic view of customers. As data privacy and security become increasingly important, future iterations of this project should focus on implementing robust data governance strategies. This would ensure the secure handling of sensitive customer data while complying with data protection regulations. Additionally, the project could explore the integration of real-time data streams to provide even more timely and relevant insights. This could potentially transform the way banks interact with their customers, leading to improved customer satisfaction and loyalty.

REFERENCES

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2. <https://bootcamp.uxdesign.cc/ux-case-study-online-food-delivery-aac10a67d2e>

LINK

<https://github.com/Abhitha22/360-degree-business-analysis-of-Food-Delivery-Apps>