Low Level Document (LLD)

Swiggy Project Data Analysis

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Document Version Control

Date of issue	Version	Description	Author
17th Jan 2024	1	First Version of Swiggy Project	Abhishek Sharma

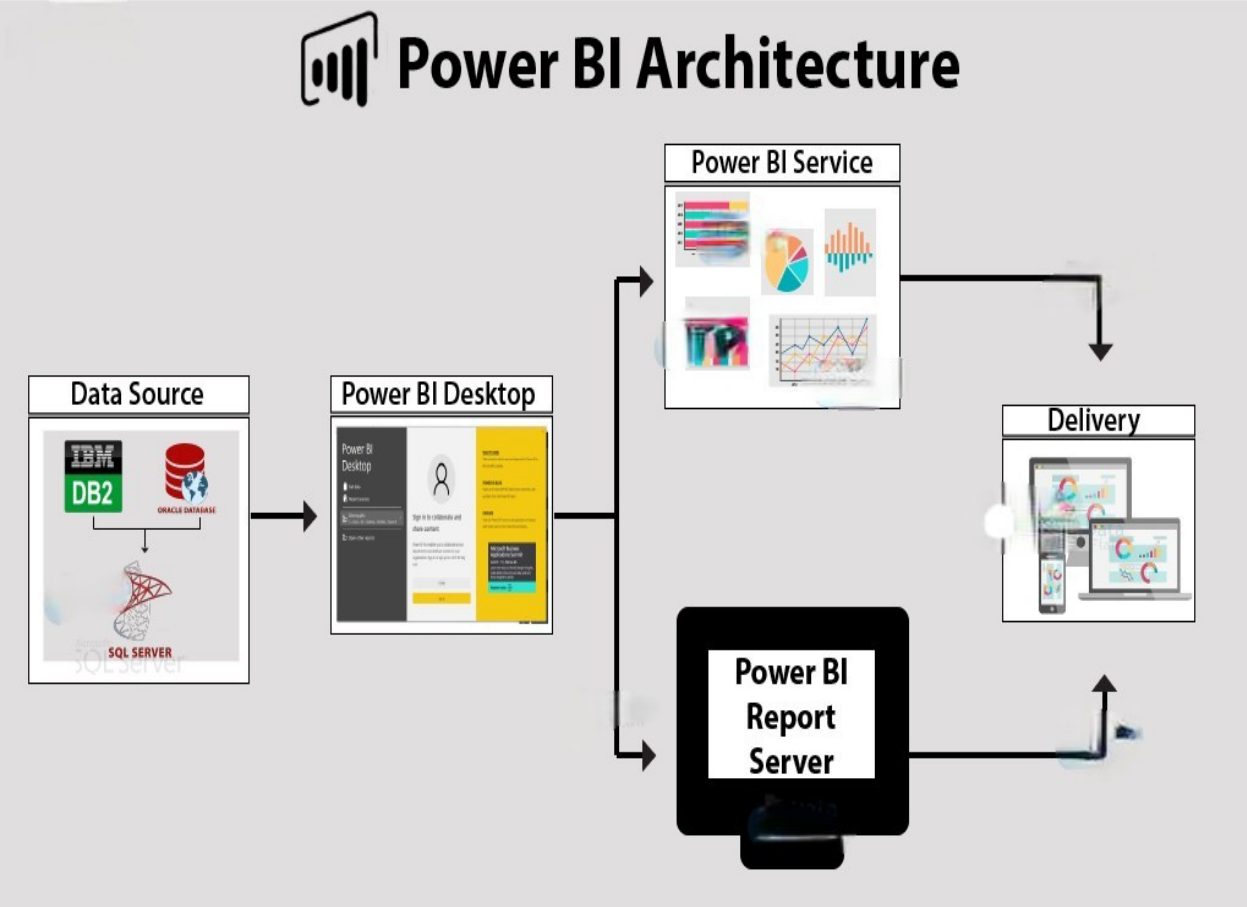
Content

1. Introduction

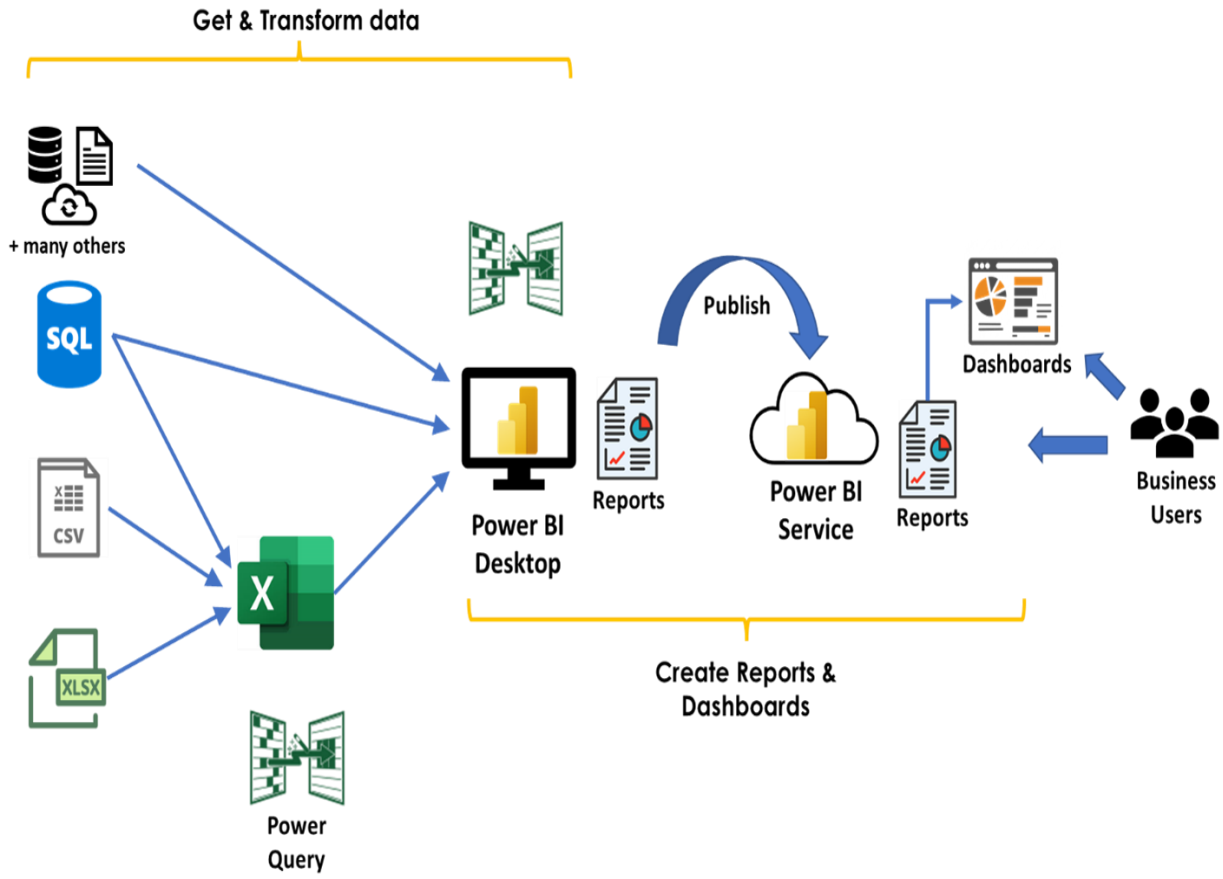
1.1 What is Low-Level design document?

The goal of the LDD or Low-level design document (LLDD) is to give the internal logic design of the actual program for Swiggy Analysis dashboard. LDD describes the class diagrams with the methods and relations between classes and programs specs. It describes the modules so that the programmer can directly code the program from the document.

2. Architecture



3. Power BI Communication Flow



4. Project Overview

Swiggy is an online food delivery platform that connects users with a variety of restaurants, allowing them to order food from the comfort of their homes. This project involves the development of a comprehensive database to manage and organize restaurant information, including Shop Name, Cuisine, Location, Rating, and Cost for Two.

5. Database Schema

5.1 Table:

Swiggy Bangalore Outlet Details.csv

	Shop_Name	Cuisine	Location	Rating	Cost_for_Two
2	Kanti Sweets	Sweets	Koramangala, Kor	4.3	â‚¹150
3	Mumbai Tiffin	North Indian, Home Food, Thalis, Combo	Sector 5, HSR	4.4	â‚¹400
4	Sri Krishna sagar	South Indian, North Indian, Fast Food, Bev	6th Block, Korama	4.1	â‚¹126
5	Al Daaz	American, Arabian, Chinese, Desserts, Fas	HSR, HSR	4.4	â‚¹400
6	Beijing Bites	Chinese, Thai	5th Block, Korama	4.1	â‚¹450
7	Kitchens of Punjab	North Indian	Koramangala 4th	4.2	â‚¹350
8	99 VARIETY DOSA AND PAV BH	Fast Food, North Indian, Chinese	BTM 2nd Stage, BT	4.1	â‚¹200
9	La Pino'z Pizza	Italian	BTM, BTM	3.9	â‚¹500
10	Hotel Manu	South Indian, Kerala, Chinese, North India	HSR, HSR	4.1	â‚¹350
11	Yumlane Pizza	Pizzas, Italian, Mexican	9th Main road, Ko	3.8	â‚¹150
12	Ambur Star Briyani	Chinese, South Indian, North Indian, Desse	outer ring road, BT	4.1	â‚¹500
13	Cake Box	Desserts	Koramangala, Kor	4	â‚¹247
14	Meghana Foods	Chinese, Andhra, Biryani, Seafood	5th Block, Korama	4.3	â‚¹550
15	Momoz	Chinese	5th Block, Korama	4.3	â‚¹450
16	A2B - Adyar Ananda Bhavan	South Indian, Chinese, Desserts, North Ind	7th Block, Korama	4.2	â‚¹450
17	Shawarma Inc	Arabian, Fast Food	1st MAin, Koramar	4.1	â‚¹150
18	WarmOven Cake & Desserts	Desserts, Beverages	Koramangala, Kor	4.1	â‚¹200
19	Sri Lakshmi Dhaba	North Indian	Bommanahalli, BT	3.7	â‚¹200
20	Falahaar & Kota Kachori	North Indian	6th block, Korama	4.2	â‚¹300

5.2 Columns:

- Shop Name (VARCHAR): The name of the restaurant or food outlet on Swiggy.
- Cuisine (VARCHAR): The type of cuisine offered by the restaurant, such as Indian, Chinese, Italian, etc.
- Location (VARCHAR): The geographical location or address of the restaurant.
- Rating (DECIMAL): A numerical value representing the average rating given by users for the restaurant's services.
- Cost_for_Two (DECIMAL): The estimated cost for two people to have a meal at the restaurant.

6. Data Collection

Sources: INeuron

1 Restaurant Partners: Obtain information on Shop Name, Cuisine, Location, and Cost_for_Two directly from Swiggy's restaurant partners.

3 User Ratings and Reviews: Capture user-generated ratings and reviews to calculate the average rating for each restaurant.

7. Data Cleaning and Validation:

Null Values: Ensure none of the columns have null values.

Data Consistency: Validate that Cuisine and Location adhere to predefined lists.

Rating Range: Ensure the Rating falls within a valid range (e.g., 1 to 5).

Cost_for_Two Format: Verify that Cost_for_Two is in a proper numerical format.

8.User Features:

1. Search Functionality: Allow users to search for restaurants based on Shop Name, Cuisine, or Location.

2. Restaurant Details: Display detailed information about each restaurant, including Rating and Cost_for_one

3. Order Placement: Enable users to place orders through a straightforward and responsive interface.

9. Future Enhancements:

1. Payment Integration: Integrate with third-party payment gateways for secure transactions.

2. Recommendation System: Implement a recommendation system based on user preferences.

3. User Profiles: Enhance the user interface with personalized profiles and order history.

10. Conclusion

The low-level document outlines the specifics of the Swiggy project, focusing on the database schema, data collection methods, database management, user interface features, security measures, and potential future enhancements. This document serves as a detailed guide for the development and implementation of the Swiggy platform.