

HIGH LEVEL DESIGN (HLD)

Analyzing Swiggy: Bangalore Delivery Outlet

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Document Version Control

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Abstract

An online food delivery system is a platform that allows customers to order food from various restaurants and have it delivered to their preferred location. These systems usually operate through websites or mobile applications and provide a convenient way for people to order food without physically visiting a restaurant.

Swiggy is a popular online food delivery platform based in India. It was founded in 2014 and has since become one of the leading players in the Indian food delivery market. Swiggy, as an online food delivery platform, collects and analyzes a vast amount of data to improve its services, optimize operations, and enhance the overall customer experience.

1. Introduction

This document will be used for documenting High-level designs of project.

1.1 Purpose of the Document

The purpose of this High-Level Design (HLD) Document is to add the necessary detail to the current project description to represent a suitable model for coding. This document is also intended to help detect contradictions prior to coding, and can be used as a reference manual for how the modules interact at a high level.

1.2 Objective of HLD

1. To provide a roadmap to entire project.
2. To provide introduction of Problem Perspective & Statement, Data Requirements, Tools used and many more.
3. To provide a module-wise breakup of the entire system.

1.3 Scope of HLD

The HLD documentation presents the structure of the system, such as the database architecture, application architecture (layers), application flow (Navigation), and technology architecture. The HLD uses non-technical to mildly-technical terms which should be understandable to the administrators of the system.

2. General Description of Project

2.1 Product Perspective & Problem Statement

Online food delivery has gained immense popularity in recent years, providing convenience and a wide variety of food options to customers. In India, several online food delivery platforms have emerged and transformed the way people order food.

Here are some prominent online food delivery services in India

Swiggy: Swiggy is one of the leading online food delivery platforms in India. It operates in numerous cities across the country and offers a vast selection of restaurants and cuisines for customers to choose from. Swiggy provides a user-friendly app and website for seamless food ordering and delivery.

In this project, we are analyzing the various aspects with different use cases which covers many aspects of Swiggy Food Delivery Service. It helps in not only understanding the meaningful relationships between attributes, but it also allows us to do our own research and come-up with our findings.

The objective of the project is to perform an exploratory data analysis, data pre-processing, & data cleaning and at the end, apply different Data Visualization techniques to get the meaningful insight from the given data. This project aims to apply some amazing Python Libraries such as Matplotlib and Seaborn.

And finally to present a Power BI dashboard by visualizing data

2.2 Data Requirements

Data Requirement completely depend on our problem.

- In this project, to perform data analysis, we are using datasets that are provided by iNeuron Intelligence Pvt. Ltd.
- The features of the data are:

Name	Description
Shop_Name	Name of the Shop/Restaurants
Cuisine	Name of the different Cuisines provided by Restaurants.
Location	Restaurant Area/Location.
Rating	Rating given by the Customers out of 5.
Cost_for_Two (₹)	Approx. Cost of Two people w.r.t. Restaurants.

2.3 Tools Used

- **Jupyter** Notebook is used as IDE.
- **Pandas** and **NumPy** are used for Data Manipulation & Pre-processing and Mathematical functions respectively.
- **Exploratory data analysis** is automated by DataPrep.
- For visualization of the plots, **Matplotlib**, **Seaborn**, **Plotly** are used.
- **GitHub** is used as version control system

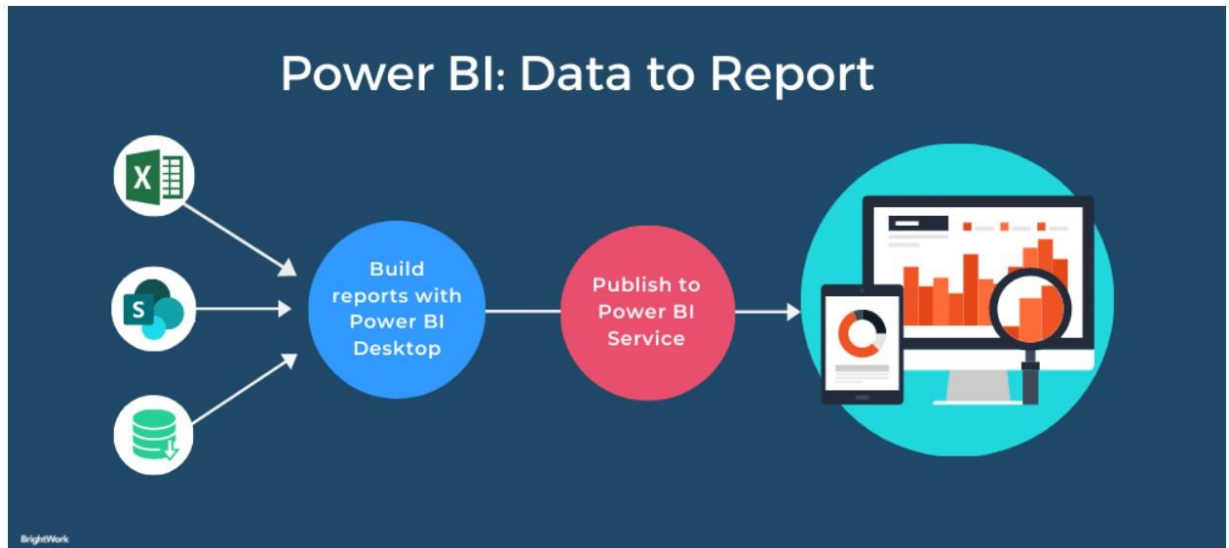


2.4 Constraints

The analysis must be user friendly, code must be neat & clean, EDA must be automated as much as possible because it will save huge amount of time. Moreover, users should not be required to have any of the coding knowledge as the insights they are looking for are mentioned in -detail with respective visuals.

3. Design Details

3.1 Power Bi Process flow



4.Power Bi Dashboard

