

# Low Level Design

## Analyzing Swiggy: Bangalore delivery outlet data

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## 1. Introduction

The online food ordering market includes foods prepared by restaurants, prepared by independent people, and groceries being ordered online and then picked up or delivered. The first online food ordering service, World Wide Waiter (now known as Waiter.com), was founded in 1995. Online food ordering is the process of ordering food from a website or other application. The product can be either ready-to-eat food or food that has not been specially prepared for direct consumption.

## 2. Scope

Low-level design (LLD) is a component-level design process that follows a step-by-step refinement process. The process can be used for designing data structures, required software architecture, source code and ultimately, performance algorithms. Overall, the data organization may be defined during requirement analysis and then refined during data design work.

## 3. Architecture



**1. Power Query:**

Power Query is the data transformation and mash up the engine. It enables you to discover, connect, combine, and refine data sources to meet your analysis needs. It can be downloaded as an add-in for Excel or can be used as part of the Power BI Desktop.

**2. Power Pivot:**

Power Pivot is a data modeling technique that lets you create data models, establish relationships, and create calculations. It uses Data Analysis Expression (DAX) language to model simple and complex data.

**3. Power View:**

Power View is a technology that is available in Excel, Sharepoint, SQL Server, and Power BI. It lets you create interactive charts, graphs, maps, and other visuals that bring your data to life. It can connect to data sources and filter data for each data visualization element or the entire report.

**4. Power Map:**

Microsoft's Power Map for Excel and Power BI is a 3-D data visualization tool that lets you map your data and plot more than a million rows of data visually on Bing maps in 3-D format from an Excel table or Data Model in Excel. Power Map works with Bing maps to get the best visualization based on latitude, longitude, or country, state, city, and street address information.

**5. Power BI Desktop:**

Power BI Desktop is a development tool for Power Query, Power Pivot, and Power View. With Power BI Desktop, you have everything under the same solution, and it is easier to develop BI and data analysis experience.

**6. Power BI Service:**

Power BI service is the Software as a Service (SaaS) part of Power BI. It is also known as Power BI Online. To access Power BI Service, you need to log in to Power BI service

## 4.Data Description:

As we have seen earlier, in our Swiggy dataset, we have around 118 records with 5 different features.

Features are distributed as 2 Continuous features and 3 Categorical features. These datasets are given in the form of Comma Separated Value (.csv) format.

Features: -

1. Shop\_Name = name of the shop and its data type is text
2. Cuisine = Food name which are available in shop and its data type is text
3. Location = Location where shops are located and its data type is text
4. Rating = It's a rating of shop and its data type is numeric
5. Cost\_of\_two = It is a cost of two Cuisine and its data type is numeric