

# Architecture

Analyzing Swiggy : Bangalore delivery outlet data

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# INDEX

S.NO	Title	Page.No
1	Introduction	3
2	Scope	3
3	Architecture	4
4	Deployment	5

### 3 ARCHITECTURE

## 1. Introduction

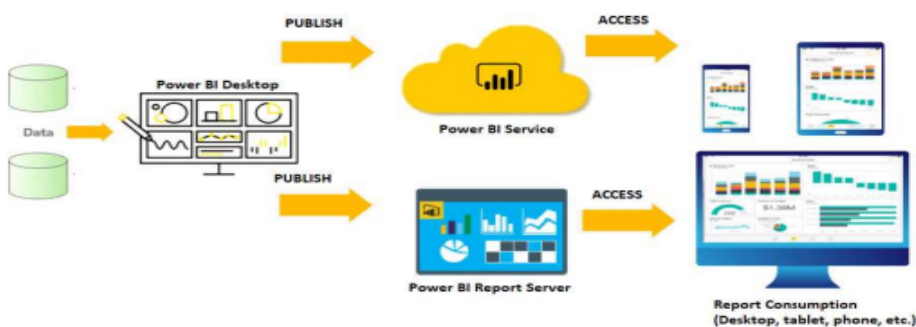
The market for ordering food online comprises dishes made by independent chefs, restaurants, and consumers who order online for pick-up or delivery.

- Online food ordering is the process of ordering food, for delivery or pickup, from a website or other application. The product can be either ready-to-eat food (e.g., direct from a home-kitchen, restaurant, or a virtual restaurant) or food that has not been specially prepared for direct consumption (e.g., vegetables direct from a farm/garden, fruits, frozen meats. etc).
- Online food ordering/delivery through third-party companies have emerged as a global industry, leading to a "delivery revolution." From 2018 to 2021, global revenues for the online food delivery sector rose from \$90 billion to \$294 billion.
- The online food ordering market has increased in the U.S with 40 percent of U.S adults having ordered their food online once. 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

## 1.2 Scope

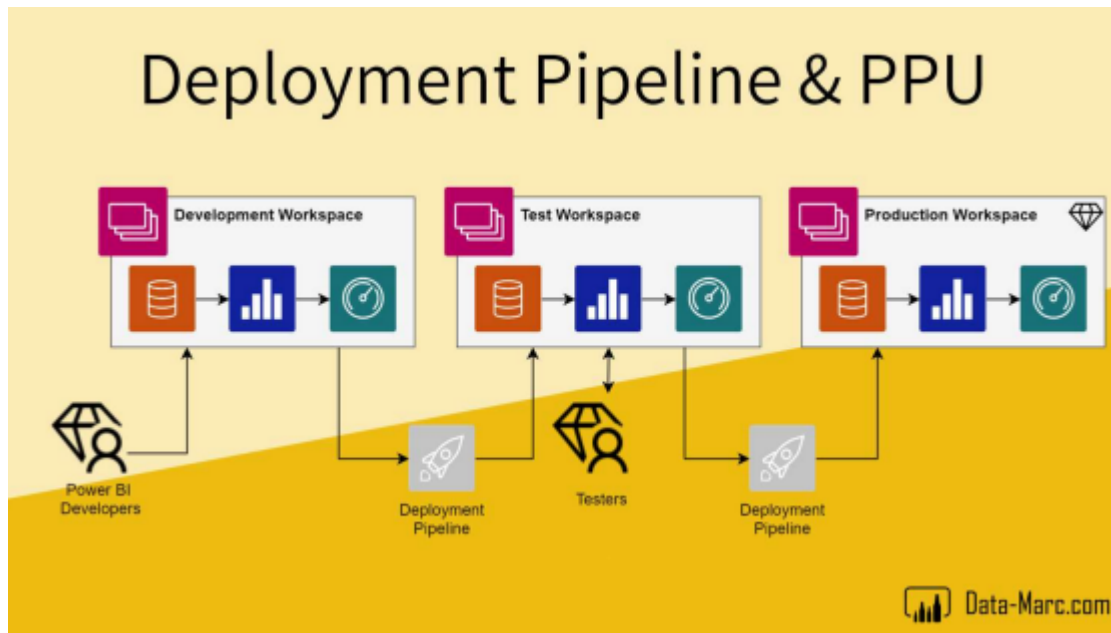
Architecture Design Document (ADD) is an architecture design process that follows a step-by-step refinement process. The process can be used for designing data structures, required software architecture, source code and ultimately, performance algorithms. Overall, the design principles may be defined during requirement analysis and then refined during architectural design work.

## 2. 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 need. 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

### 3. Deployment



- There are multiple ways to deploy the dashboard in Power BI. The simplest way is to publish directly on Power BI Services server from online mode.
- One can easily publish the work from the desktop and then it will open in browser, then user has to sign in and the work will be published.
- This work can see all the viewers around the world. You can share it via a sharable link.
- user can deploy a dashboard using Power BI Services