# LOW LEVEL DESIGN (LLD) DOCUMENT ANALYZING SWIGGY

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#### 1. Introduction

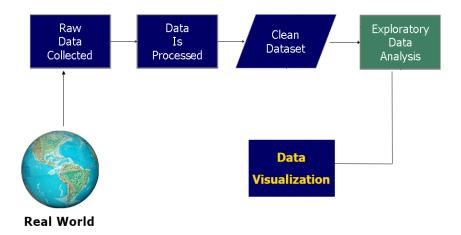
### 1.1 What is Low Level Design Document

The goal of the LDD or Low-level design document (LLDD) is to give the internallogic design of the actual program code for the House Price Prediction 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.

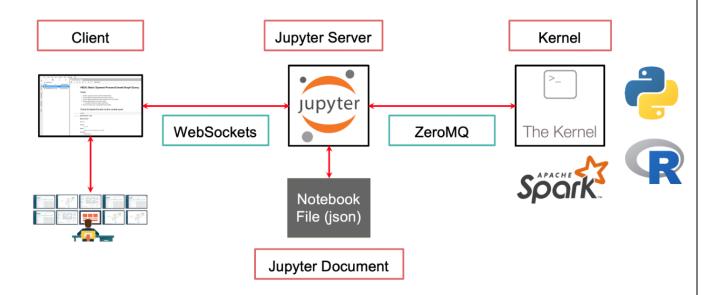
#### 1.2 Scope

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.

#### 2. Architecture



# 2.1 Jupyter Notebook Architecture



## 3. Architecture Description

### 3.1 Data Description:

The Swiggy Data Set Contains following columns.

- Shop Name: It gives the information of the shops in Bangalore.
- Cuisine: It describes different styles of food that are available.
- Rating: Rating for the Shop.
- Cost for Two: Describes the cost per two items in different shops.
- Location: Describes the location of the shop.

### 3.2 Web Scraping:

Web scraping is a technique to automatically extract content and data from websites using bots. It is also known as web data extraction or web harvesting. Web scrapping is made simple now days, many tools are used for web scrapping. Some of python libraries used for web scrapping are Beautiful Soup, Scrapy, Selenium, etc.

#### 3.3 Data Transformation:

In the Data Transformation Process, we will convert our original datasets with other necessary attributes format. For the given Data Set names of the Columns have been changed and Null Values have been removed from the DataSet.

Shop\_Name

Cuisine Rating Cost\_for\_One

Area

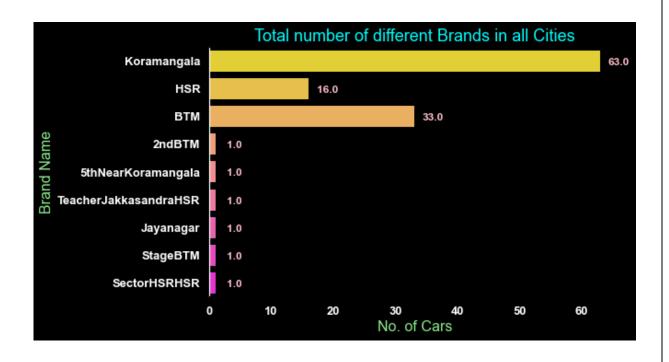
Area spot

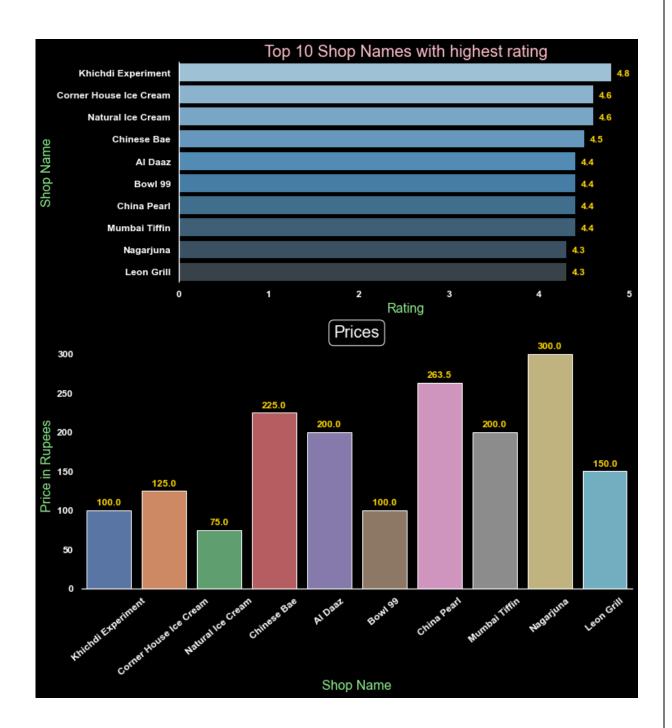
#### 3.4 Creating relations between Parameters.

In this Project we had used many types of Visualizations like:

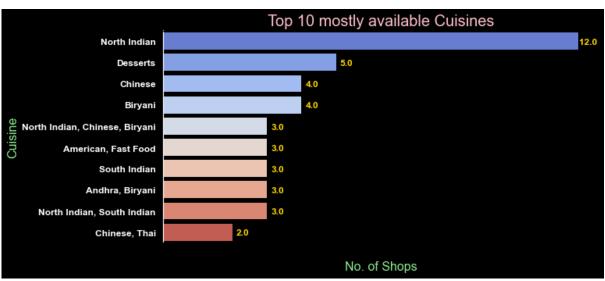
- 1. Bar Charts
- 2. Pie Charts
- 3. Horizontal Bar Charts
- 4. Count plot
- 5. Scatter plot
- 6. Point plot
- 7. Line plot
- 8. Lollipop Chart
- 9. Heatmap

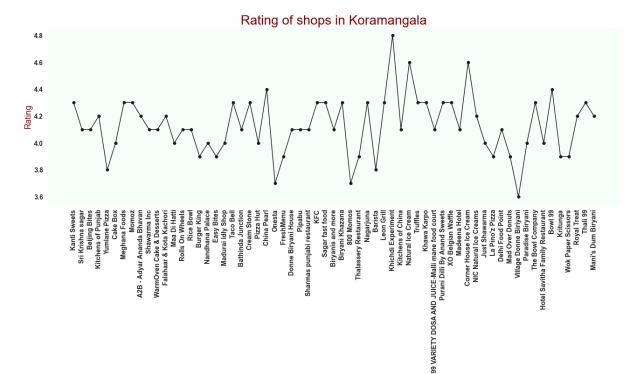
With the use of all the available parameters we had plotted visualizations.

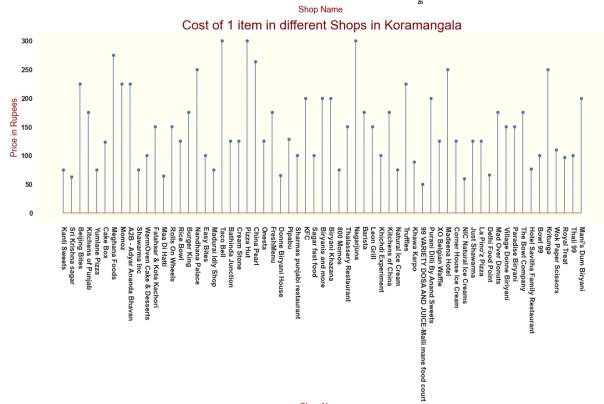


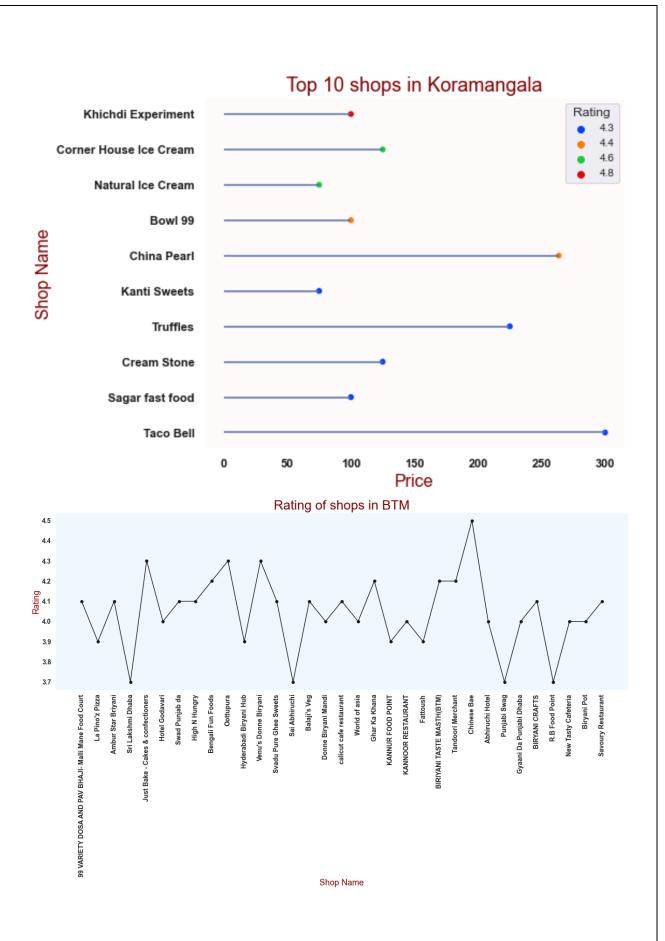


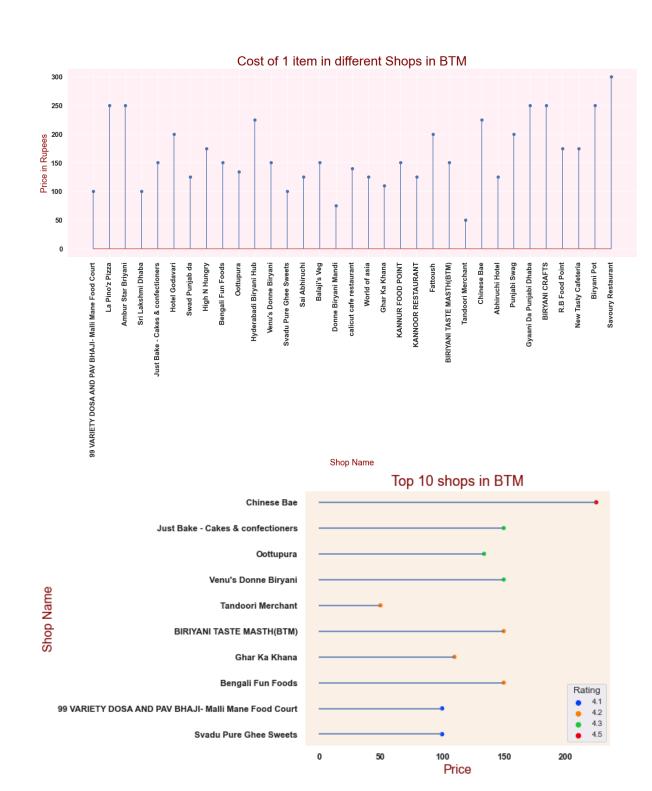


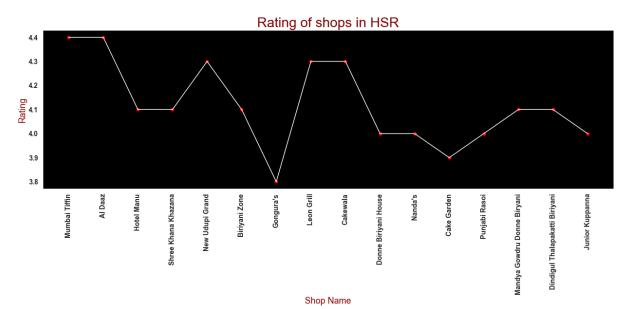


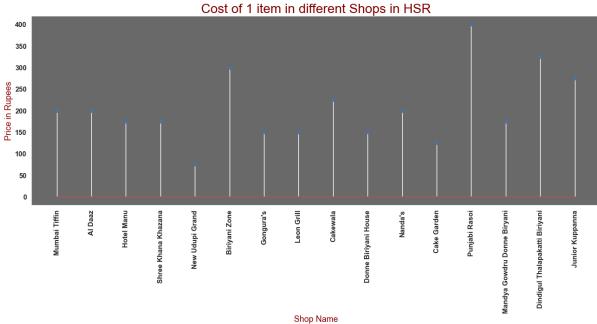


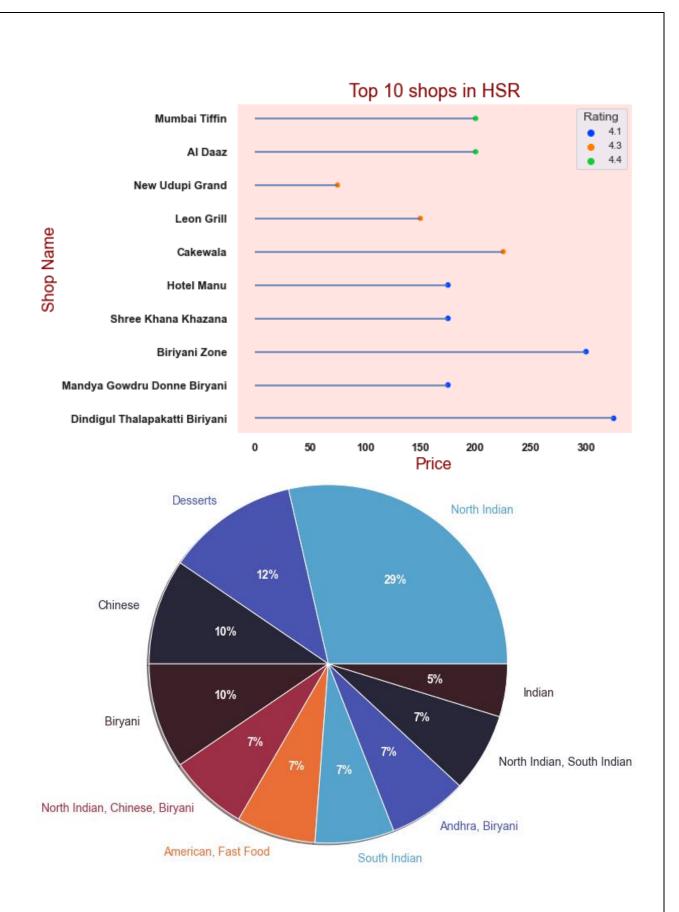


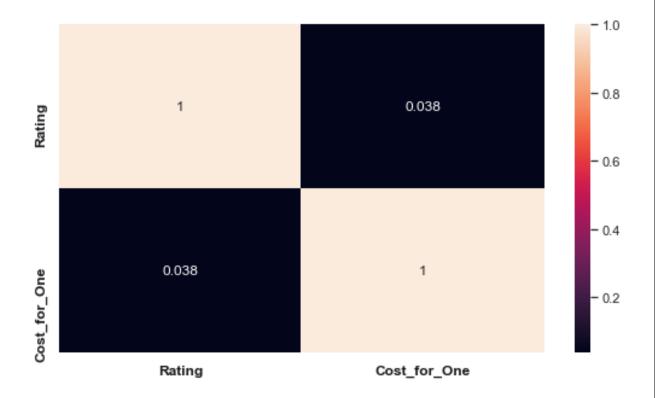






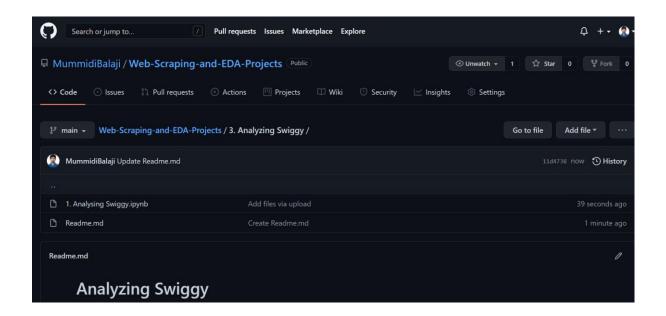






## 3.5 Deployment

We can deploy the report in the form of Jupyter Notebook in GitHub and we can share that report with others. Here we had successfully deployed the report in GitHub.



# 4. Unit Test Cases

S. No	Test Case Description	Expected Results
1	Total number of hotels based on	Count of hotels are
	location.	shown by count plot
		based on location.
2	Top 10 hotels with highest rating	Sorting the data based on
		rating in descending
		order gives the rating
		from highest.
3	Top 10 hotels with highest price	Sorting the data based on
		Cost for one item in
		descending order gives
		the rating from highest.
4	Heatmap for Rating vs Price	We get a heatmap based
		on price & rating
5	Mostly available Cuisines	By filtering data &
		presenting in bar chart
		we het mostly available
		cuisines