iNeuron

Low Level Design

Swiggy Bangalore Delivery Outlet Data Analysis

Written By	Naimish Kumar Bareek
Document Version	1.0
Last Revised Date	14/02/2023

DOCUMENT CONTROL

Change Record:

VERSION	DATE	AUTHOR	COMMENTS
1.0	14/02/2023	Naimish Kumar Bareek	NA

Reviews:

VERSION	DATE	REVIEWER	COMMENTS
1.0	14/02/2023	Naimish Kumar Bareek	NA

Approval Status:

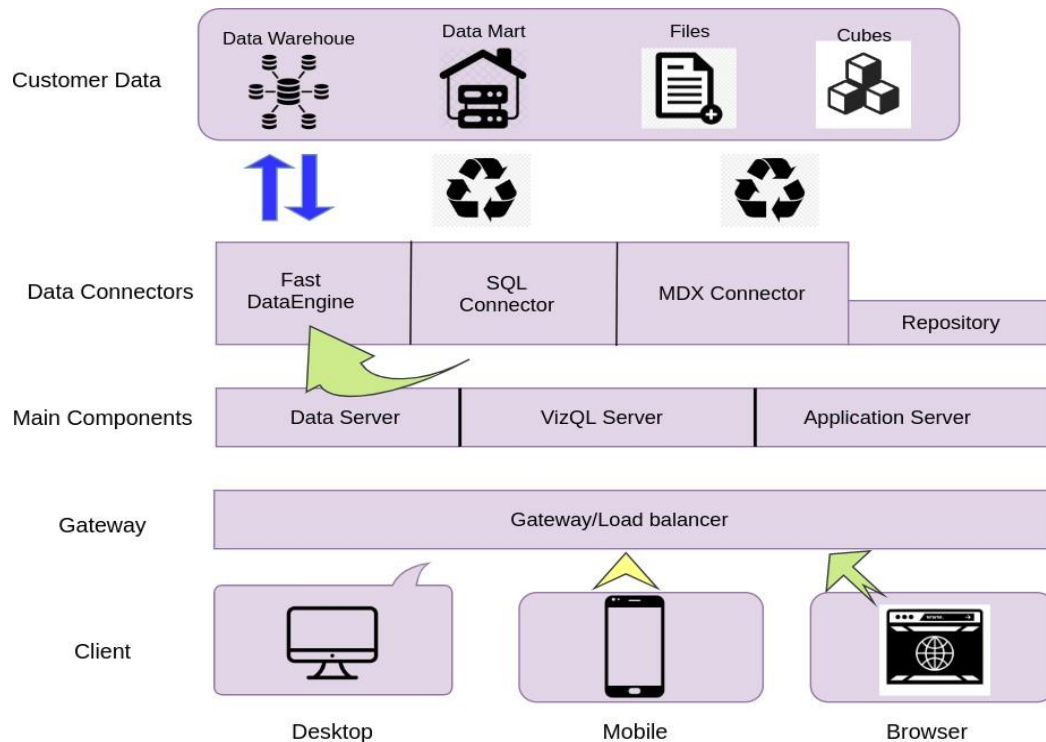| VERSION	REVIEW DATE	REVIEWED BY		APPROVED BY	COMMENTS

Contents

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 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.
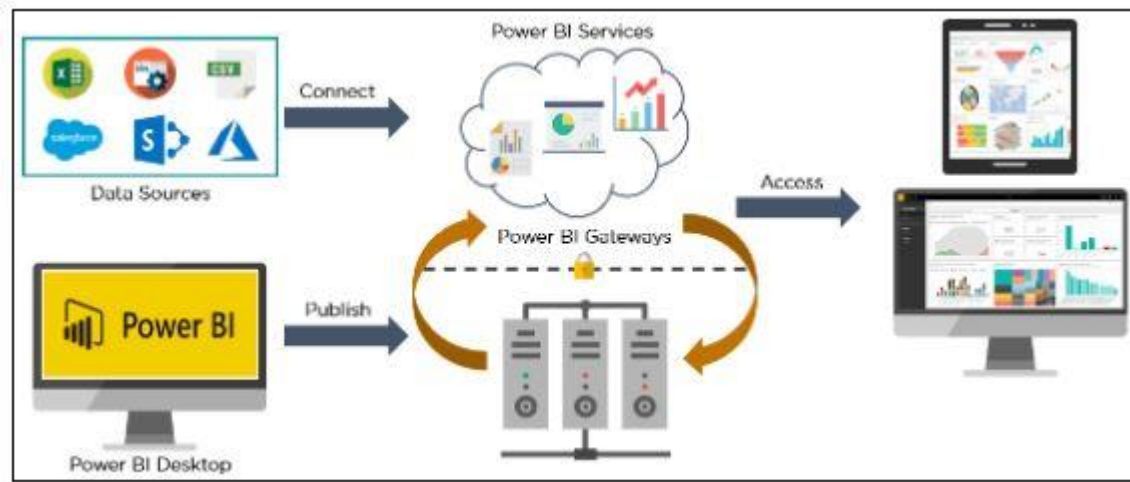
2. Architecture

Power BI Server Architecture

Power BI architecture is a service built on top of Azure. There are multiple data sources that Power BI can connect to. Power BI Desktop allows you to create reports and data visualizations on the dataset. Power BI gateway is connected to on-premise data sources to get continuous data for reporting and analytics. Power BI services refer to the cloud services that are used to publish Power BI reports and data visualizations. Using Power BI mobile apps, you can stay connected to their data from anywhere. Power BI apps are available for Windows, iOS, and Android platforms.

The following diagram shows Power BI Server's architecture:

3. Architecture Description

3.1. Data Description

The Dataset contains Location and Cost for two persons.

3.2. Web Scrapping

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 Transformation Process, we will convert our original datasets with other necessary attributes format. And will merge it with the Scrapped dataset.

3.4. Data Insertion into Database

a. Database Creation and connection - Create a database with name passed. If the database is already created, open the connection to the database.

b. Table creation in the database.

c. Insertion of files in the table

4. Unit Test Cases

TEST CASE DESCRIPTION	EXPECTED RESULTS
Rating slicer	When clicked on the slicer, a dropdown should occur which has various ratings.
Count of Shop Name, Count of Cuisine and different cuisine	These cards should not change the value irrespective of any filter.
Relation Between Rating and Count of Shop Name	Here a is bar graph shows Rating and Count of Shop Name