GLOBAL SUPERMARKET DATA ANALYSIS

Architecture Design (HLD)

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Project Title	**GLOBAL SUPERMARKET DATA ANALYSIS**
Technologies	**Excel**
Domain	**E-commerce**
Project Difficulties level	**Advance**

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Document Version Control

Date Issued	Version	Description	Author
09-Aug-2022	1.0	Complete Architecure	Pooja Das

Abstract / Problem Statement

E-commerce (electronic commerce) is the buying and selling of goods and services, or
the transmitting of funds or data, over an electronic network, primarily the internet. These
business transactions occur either as business-to-business (B2B), business-to-
consumer (B2C), consumer-to-consumer or consumer-to-business.

Business Scenario

The Analytics team of an Online E-Commerce Company wants to design a Sales
dashboard to analyze the sales based on various product categories. The company
wants to add user control for product categories, so users can select a category and can see the trend month-wise and product-wise accordingly.

Given Tasks

- Task 1 - In a word document write the process and data added to the current dataset.
- Task 2 – You can add your data as per your convenience.
- Task 3 - Do the data preparation part.
- Task 4 – Build the dashboards.
- Task 5 – Deploy Dashboard

1 Introduction

1.1 Why this is an Architecture design document?

Any software needs the architectural design to represent the design of software. IEEE defines architectural design as “the process of defining a collection of hardware and software components and their interfaces to establish the framework for the development of a computer system.” The software that is built for computer-based systems can exhibit one of these many architectures.
Each style will describe a system category that consists of :
• A set of components (eg: a database, computational modules) that will perform a function required by the system.

• The set of connectors will help in coordination, communication, and cooperation between the components.

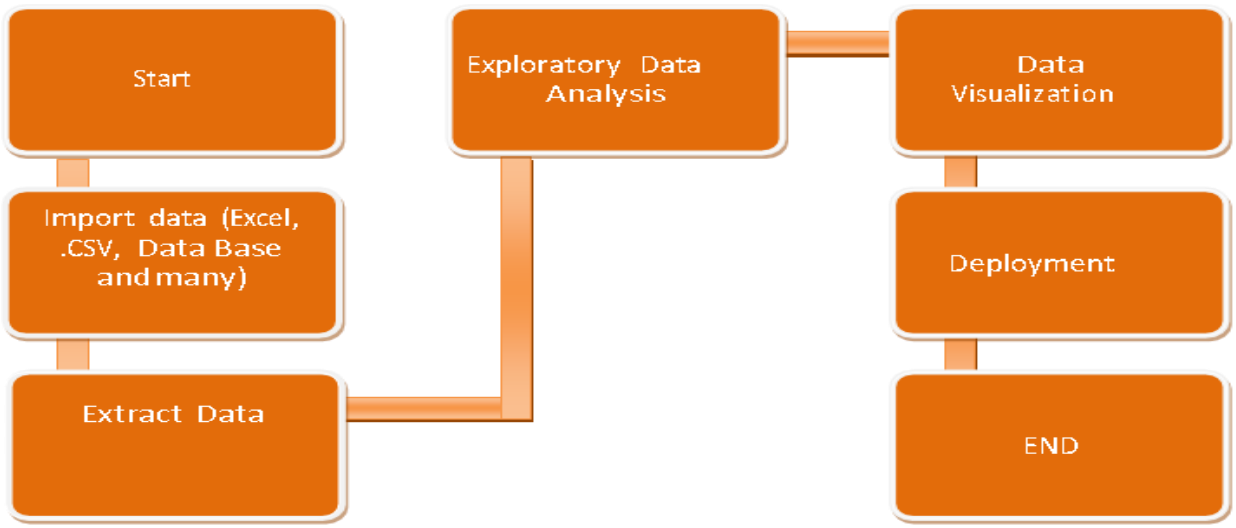
• Conditions that how components can be integrated to form the system.

• Semantic models that help the designer to understand the overall properties of the system.

1.2 Scope

Architecture Design Document (ADD) is an architectural 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

2. Architecture



1. Import data from various data sources. These data are imported from Datastore.
2. Extract Data
3. Merage the files.
4. Exploratory Data Analysis
5. Visualizedied data
6. Create a Dashboard
7. Deployment

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3 Deployment

Prioritizing data and analytics couldn’t come at a better time. Your company, no matter what size, is already collecting data and most likely analyzing just a portion of it to solve business problems, gain competitive advantages, and drive enterprise transformation.

OneDrive is used to Deployment of Dashboard