

High Level Design (HLD)

E-Commerce Data Analysis

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Document Version Control

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Abstract

E – commerce (electronic commerce) refers to the purchasing and selling of products and services, as well as the transmission of cash or data, through an electronic network, most notably the internet. These commercial interactions might be B2B, B2C, consumer-to-consumer, or consumer-to-business.

Creating a sales dashboard to monitor sales based on multiple product categories, as well as adding user control for product category, so users may pick a category and observe the trend month-by-month.

1. Introduction

1.1 Why this High-Level Design Document?

The purpose of this High-Level Design (HLD) Document is to add the necessary detail to the current project description to represent a suitable model for coding. This document is also intended to help detect contradictions prior to coding, and can be used as a reference manual for how the modules interact at high level.

The HLD will:

- Present all of the design aspects and define them in detail.
- Describe the user interface being implemented
- Describe the hardware and software interfaces
- Describe the performance requirements.
- Include design features and the architecture of the project
- List and describe the non-functional attributes like:
 - Security
 - Reliability
 - Maintainability
 - Portability
 - Reusability
 - Application Compatibility
 - Resource utilization
 - Serviceability

1.2 Scope

The HLD documentation presents the structure of the system, such as the database architecture, application architecture (layers), application flow (Navigation), and technology architecture. The HLD uses non-technical to mildly-technical terms which should be understandable to the administrators of the system.

2. General Description

2.1 Product Perspective & Problem Statement

E – commerce (electronic commerce) refers to the purchasing and selling of products and services, as well as the transmission of cash or data, through an electronic network, most notably the internet. These commercial interactions might be B2B, B2C, consumer-to-consumer, or consumer-to-business.

The Objective is to create a sales dashboard to monitor sales based on multiple product categories, as well as adding user control for product category, so users may pick a category and observe the trend month-by-month.

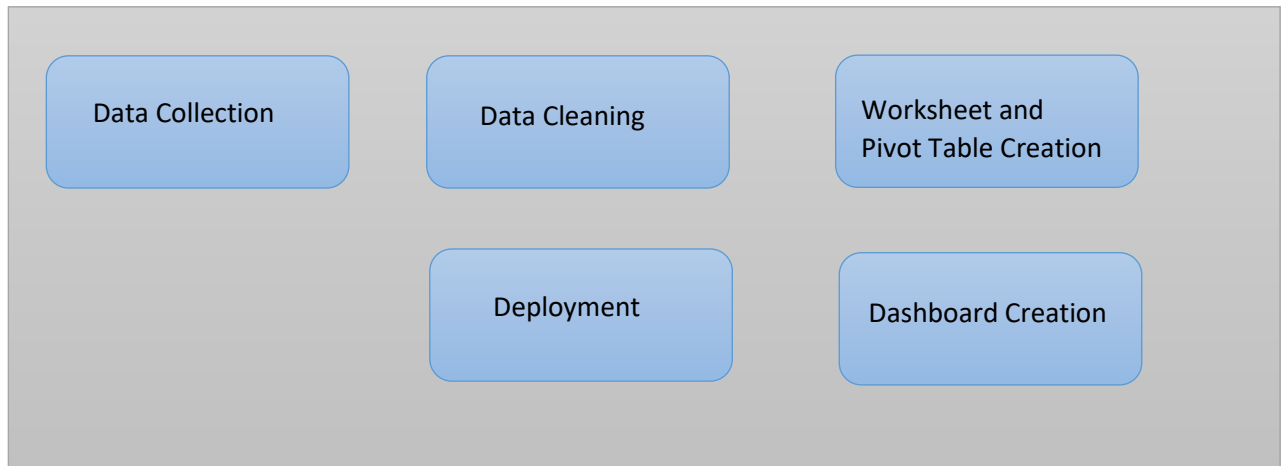
2.2 Tools Used

Business Intelligence tools and libraries in Excel is used to build the whole framework.



3. Design Details

3.1 Functional Architecture



4. Design Details

Dashboard will be implemented to display and indicate certain KPIs and relevant indicators.



As and when, the system starts to capture the historical/periodic data for a user, the dashboards will be included to display charts over time with progress on various indicators or factors.

4.1 KPIs (Key Performance Indicators)

Key indicators displaying a summary of sales based on multiple product categories, and observe the trend month-by-month.

1. Total Sales
2. Total Quantity
3. Total Profit
4. Sales and profit month-wise
5. Region wise sales
6. Number of order aging wise