

Low Level Design (LLD)

E-Commerce Data Analysis

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Document Version Control

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1. Introduction

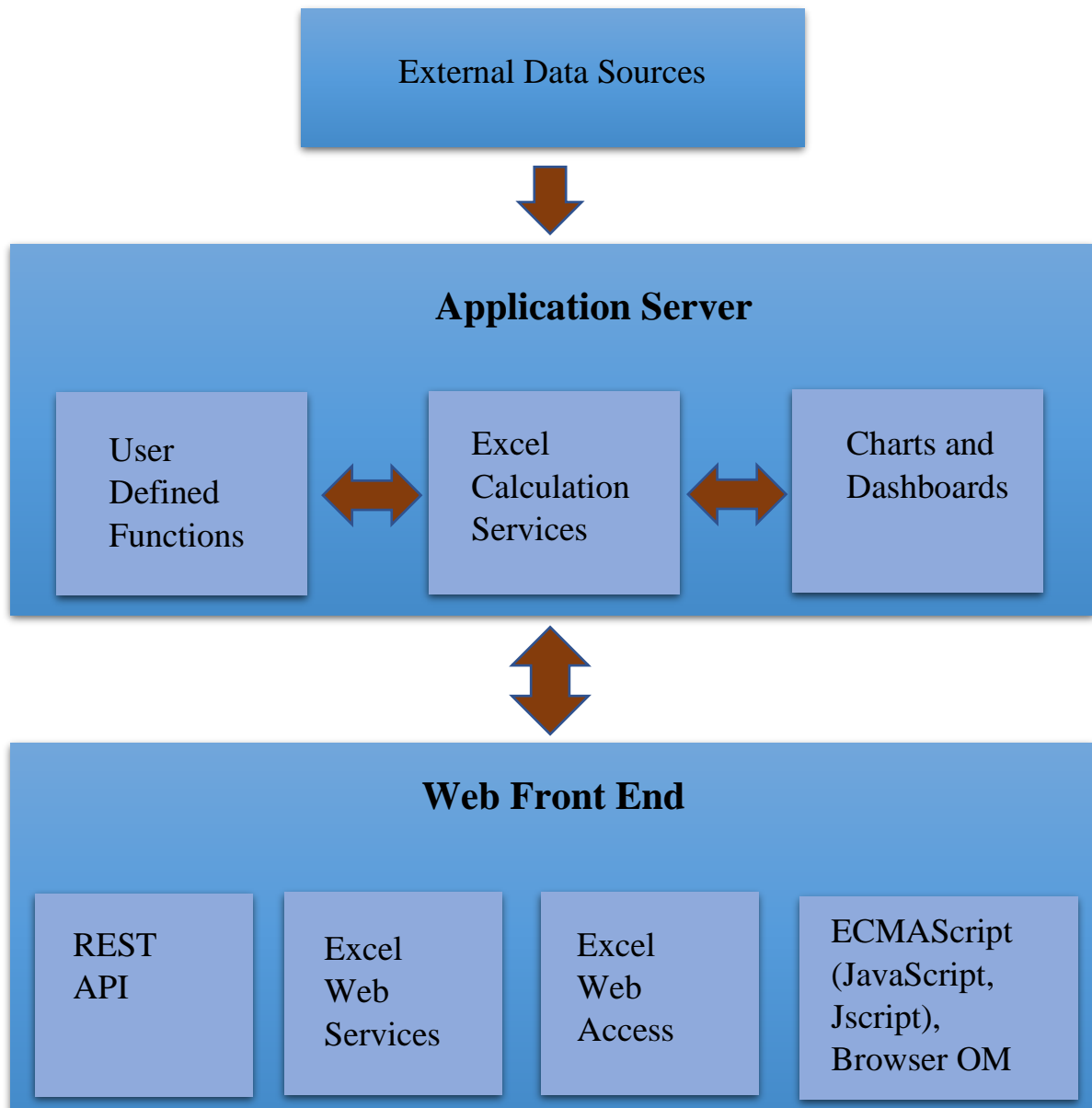
1.1 Why this Low-Level Design Document?

The goal of the LLD or Low-Level design document (LLDD) is to give the internal logic design of the actual program code for the E-Commerce dashboard. LLD 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

The 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



3. Architecture Description

3.1 Data Description

The dataset contains E – Commerce data for different product categories Auto & Accessories, Electronic, Fashion, Home & Furniture which includes Product, Shipping date, Order date, Aging (number of days to ship), Ship mode, Sales, Profit, Quantity, Discount, Shipping Cost, Order Priority, Segment, City State, Country, Region and Months

3.2 Data Transformation

In the transformation Process, we will convert our original datasets with our necessary attributes format.

3.3 Pivot Table and Dashboard

After the data transformation stage, we will create necessary pivot tables, summary statistics and charts based on those pivot tables according to our needs. Then we can create the Dashboard.

3.4 Deployment

Once the dashboard is completed, we can share the dashboard through various sources like google sheets, Excel, Web Pages etc.

4. Unit Test Cases

Test Case Description	Expected Results
User Control Combo box	When Clicked on the Combo box , a dropdown should occur which has various product category
Sales and Profit	A bar graph showing the sales and profit in different months
Relation between Sales and Region	A bar graph showing Sales in different Regions
Histogram for Aging	A histogram showing the frequency of aging.
Total Sales, Profit and Quantity	Total values shown as card.