

Architecture Design

E-Commerce Data Analysis

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1. Introduction

1.1 What is 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.

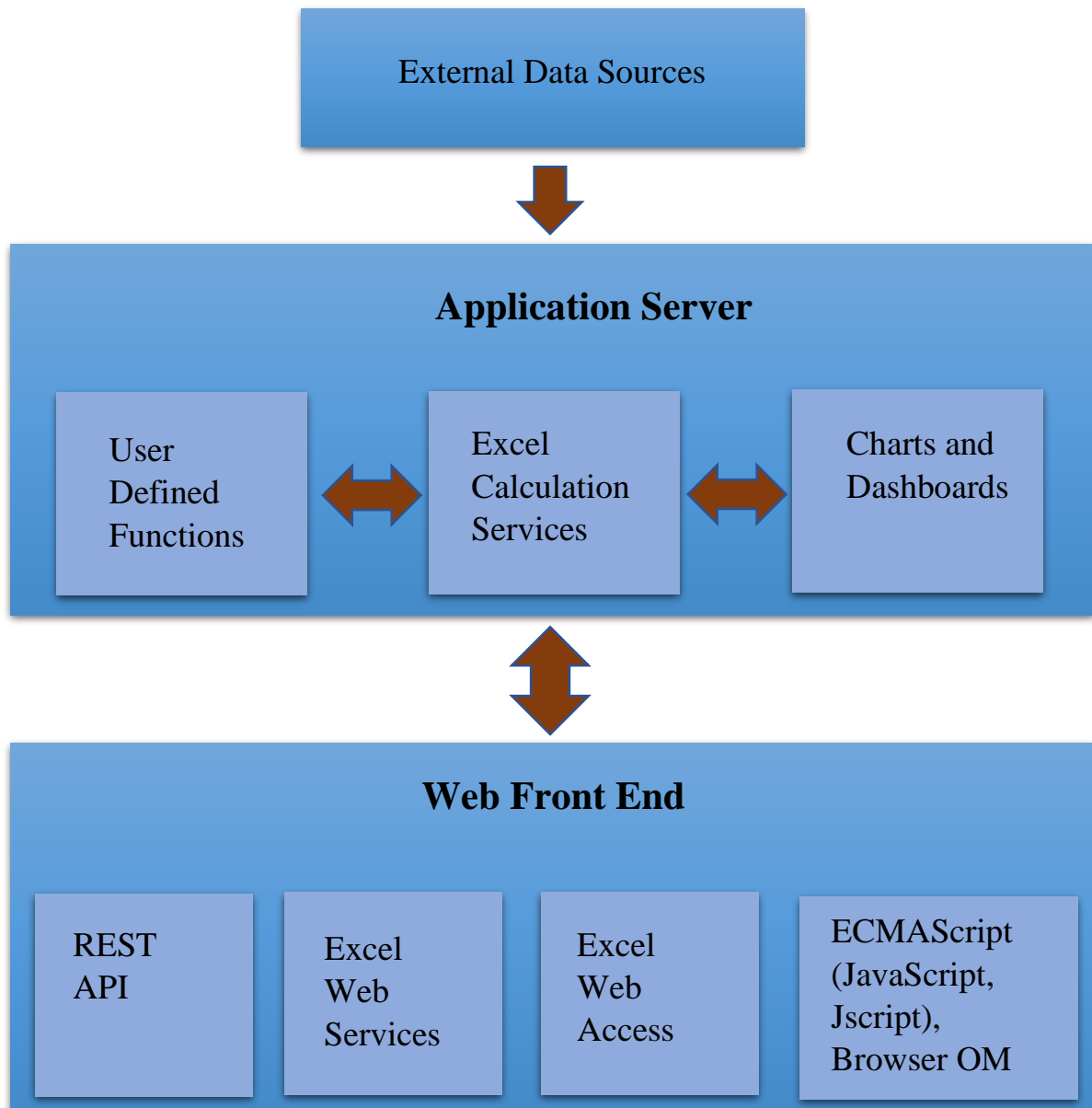
Each style will describe a system category that consists of:

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

1.2 Scope

Architecture Design Document (ADD) is an architecture 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 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.

4. Deployment

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