Architecture Design

Black Friday Sales Prediction

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1 Introduction

1.1 What is Architecture design document?

Any software needs the architectural design to represents 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 (e.g.: 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.

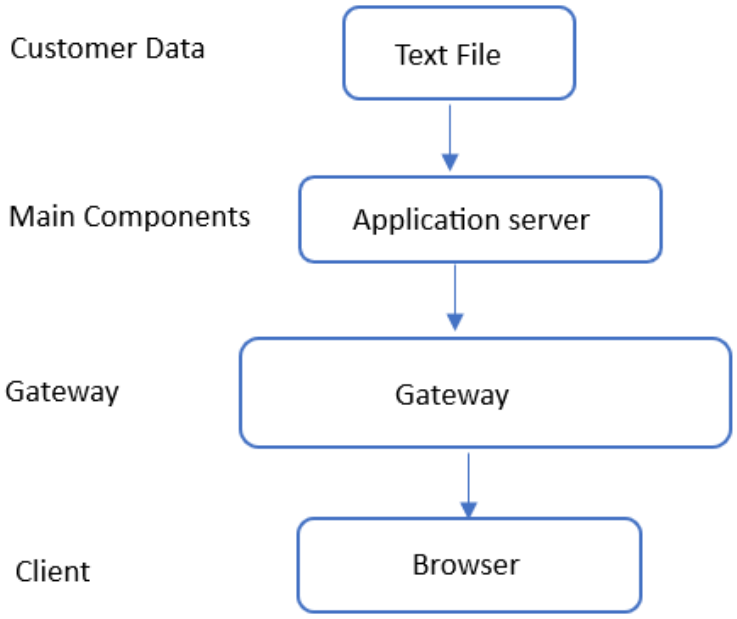
• Conditions that how components can be integrated to form the system.

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

1.2 Scope

Architecture Design Document (ADD) is an 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



- Text File - The Customer details are stored in CSV text file.
- Application server - Flask is the application server we use in this project.
- Gateway - It acts as an entry gate to the application server.
- Browser – We access a simple HTML page which gets the input from the user and display the predicted output with the help of browser.

3 Deployment

Once we complete the model training and testing, locally deploy the model in the browser using Flask API.