

**OSD Product Management System**

# **Architecture & High-level Design**

## **Team 5**

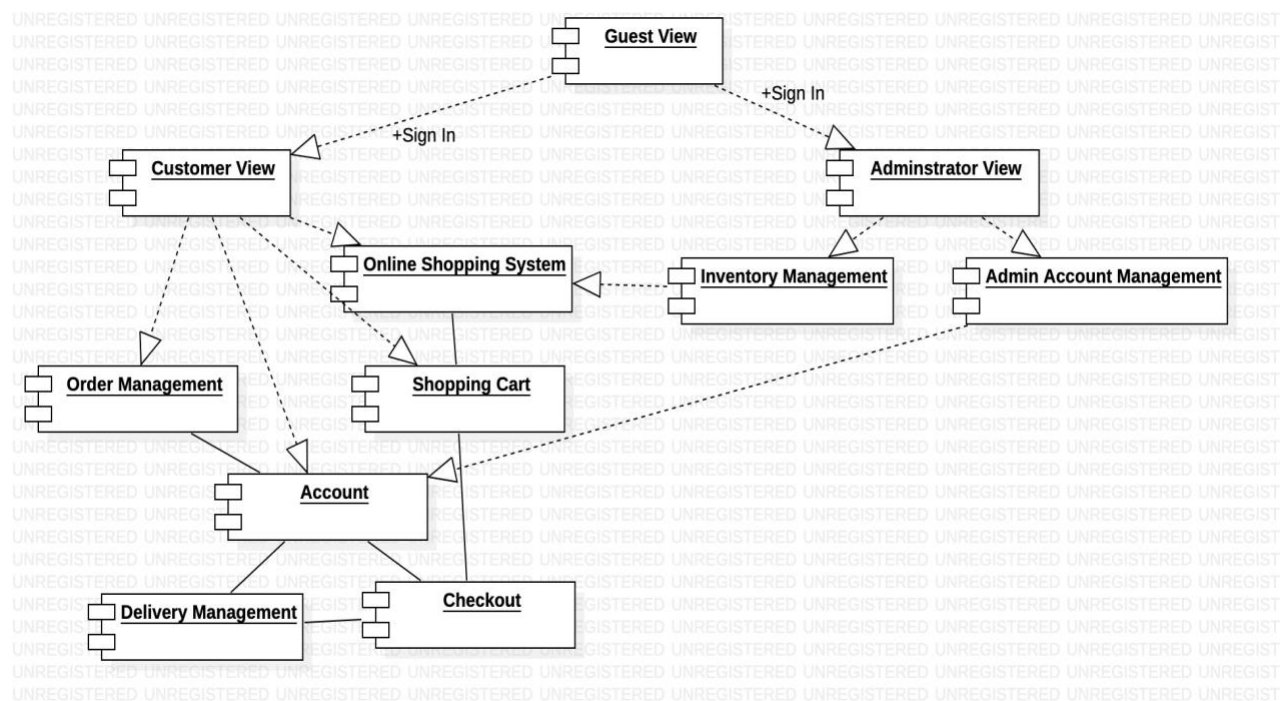
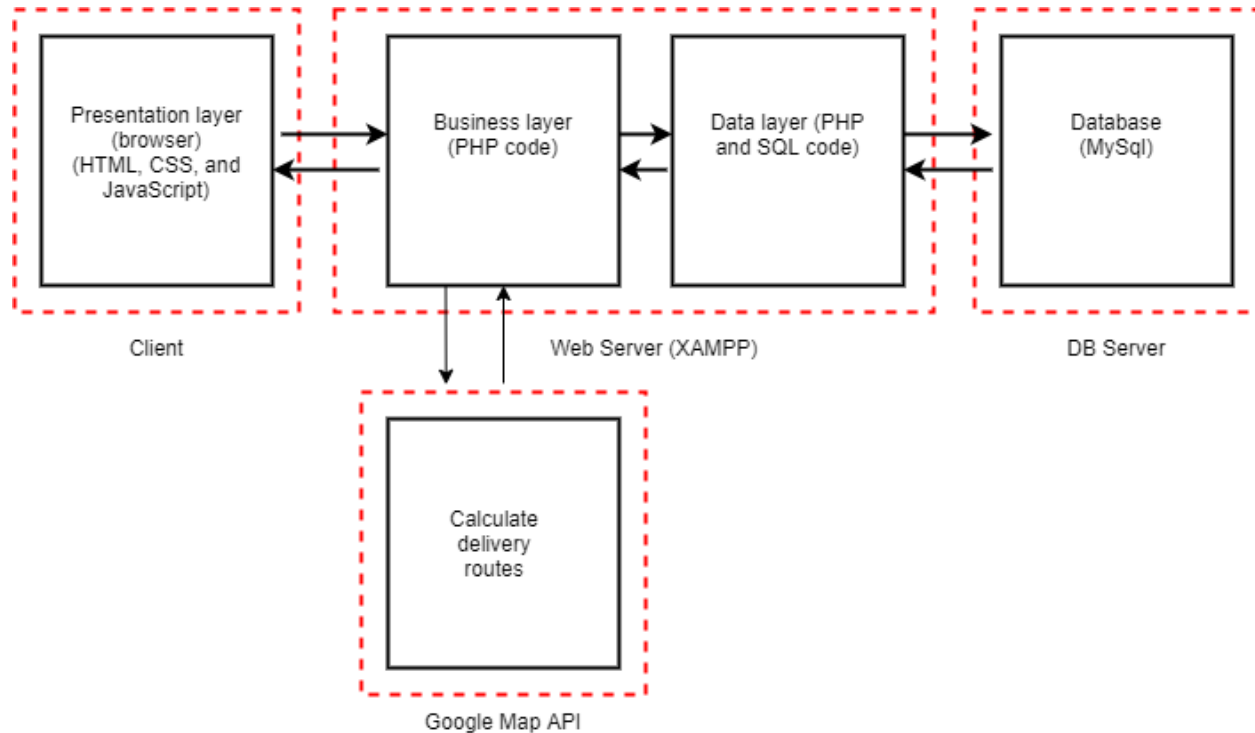
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# Component architecture diagram



# Component design and descriptions

There will be three main components to this management system. The first component will be a Guest View that will be presented the first time anyone interacts with the site. This view contains a Home Page and then a Sign In. A Sign In which is required to interface with the following two components which are the administrator and customer views. The second component, an Administrator View will provide options to control and change accounts. A separate component within the Administrator View will allow for inventory management. The third main component that interfaces with the Sign In is the Customer View. This component will provide a robust set of options like an account overview, a shopping cart, an online shopping system and a checkout to place orders. A delivery management and order management component will provide the shipping details and allow a user to modify orders. The delivery management system will have to interface with the Google Maps API to provide delivery estimates and costs.

## Hardware

For the initial release, the listed hardware will be used:

- MacBook Air 2017
- MacBook Air 2020
- ASUS ZenBook 13 UX331F (Windows 10)
- Dell XPS15 9550

## Software

### Application Languages

- PHP
- SQL
- HTML
- CSS
- JavaScript

### Other Software:

- Google Maps API
- Web browser: Chrome, Safari, Firefox

- Apache web server
- MySQL

# Tools

For the initial release, the listed software tools will be used:

- XAMMP – includes Apache, phpMyAdmin, and MySQL
- MAMP – includes Apache, phpMyAdmin, and MySQL
  - Web Server
- GitHub
  - For version control
- SourceTree
  - Additional Version Control
- Slack
  - For communication
- MacOS Catalina (Version 10.15.6)
  - OS on which the application runs on
- Eclipse
  - IDE for software development
- Zoom
  - For conferences

# Frameworks

For the initial release, the listed frameworks will be used:

- CSS
  - Bootstrap
- JavaScript
  - jQuery