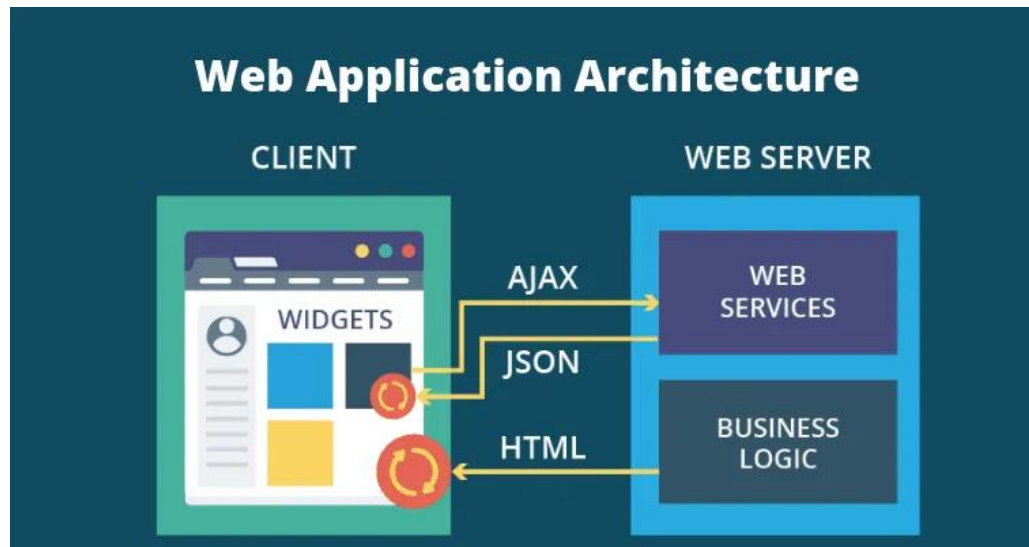


# Advanced Concepts in Web Development

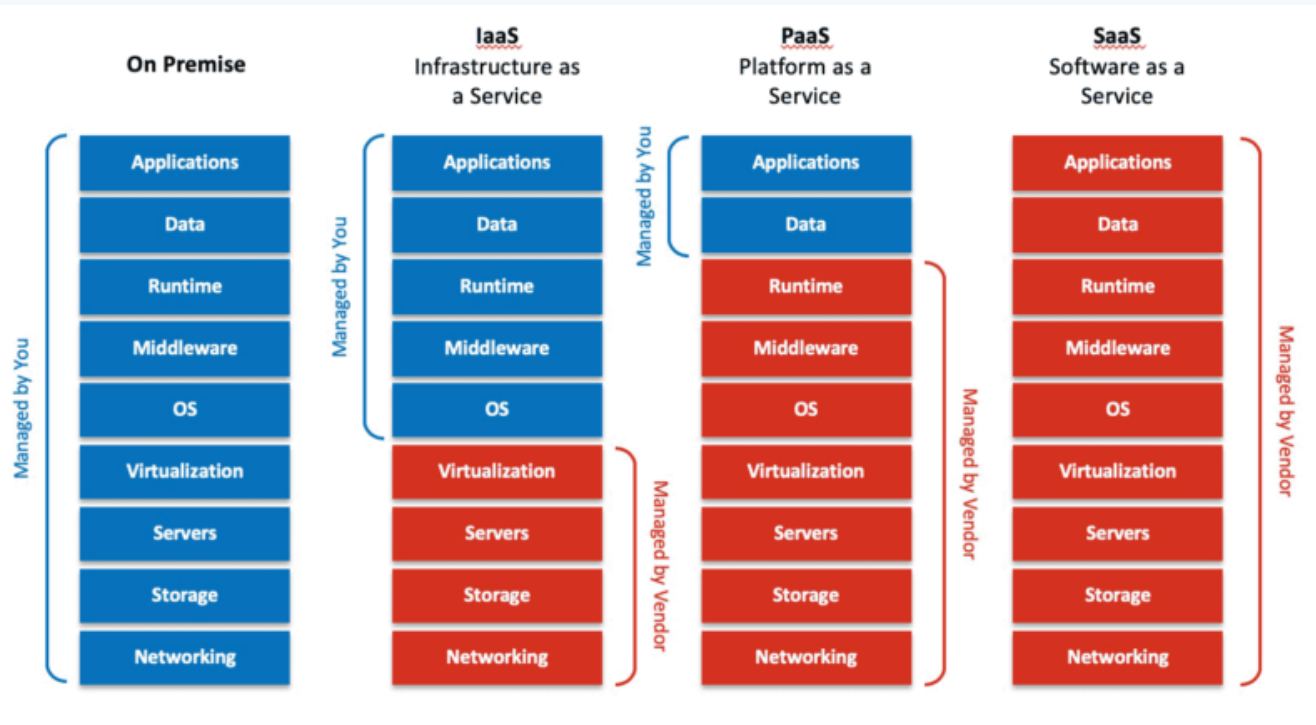


**Ratana SOTH**  
[rsoth@paragoniu.edu.kh](mailto:rsoth@paragoniu.edu.kh)

088 898 8085

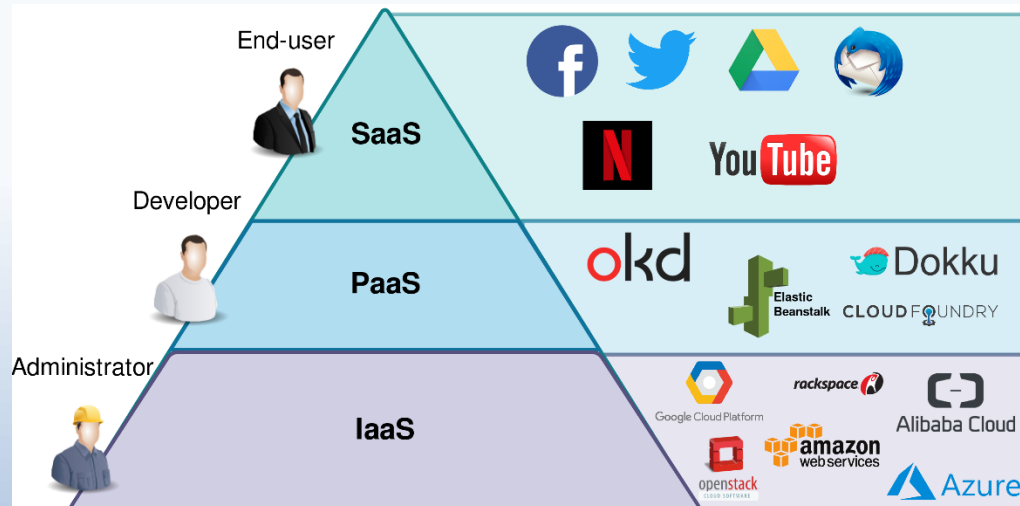
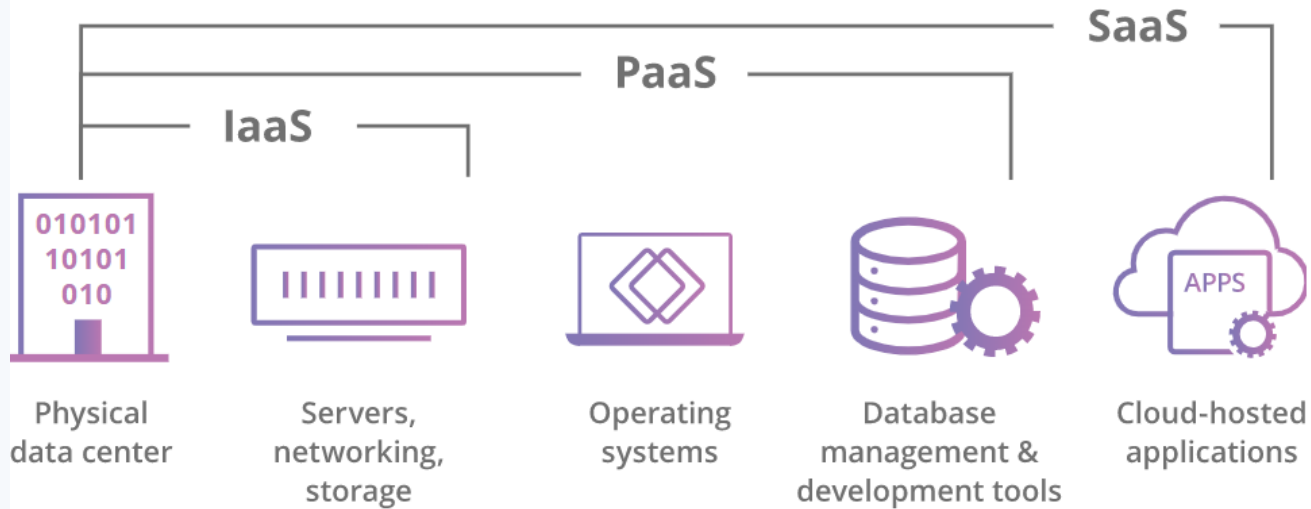
# **Full Semester Learning Skills**

# Cloud Type



1. Elasticity and Flexibility
2. Scalability
3. Automation
4. Costless (Pay as You Go)
5. Security

# Cloud Type

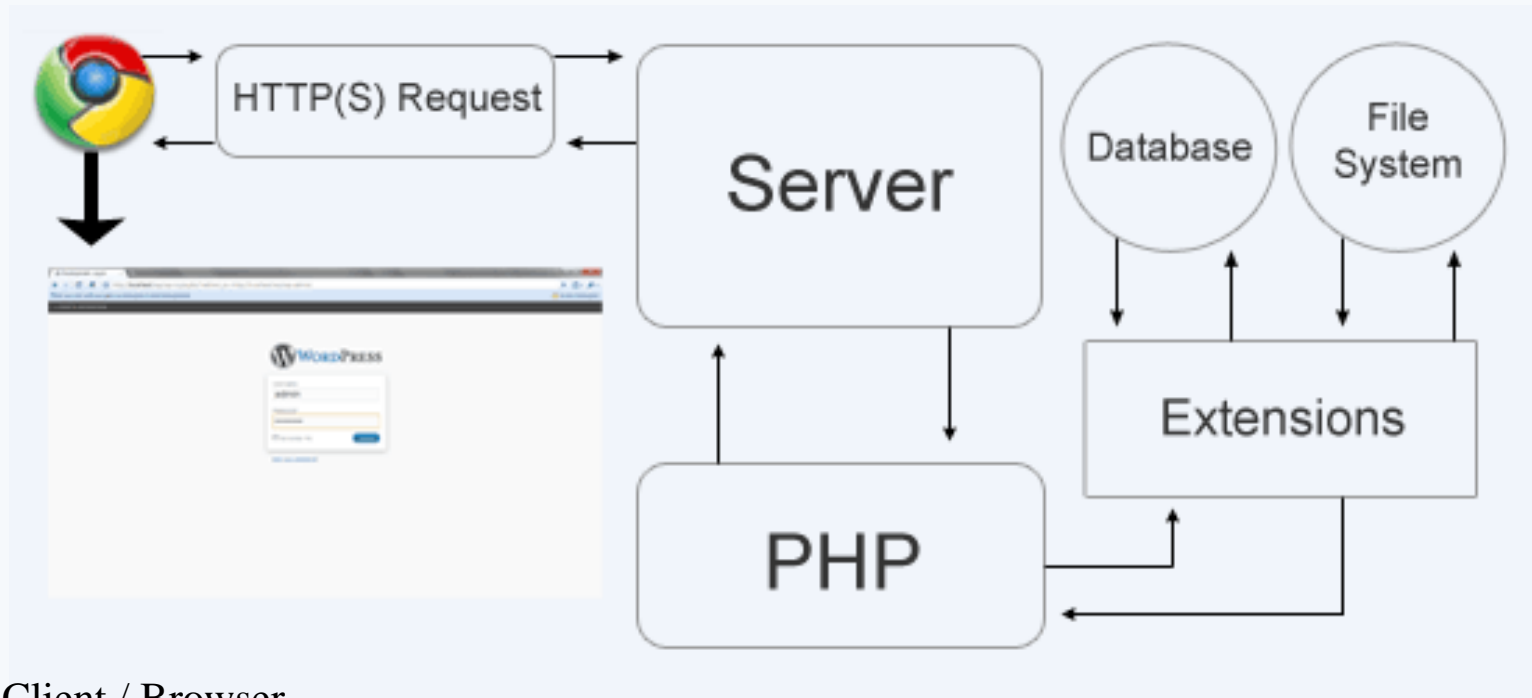


# Cloud Provider



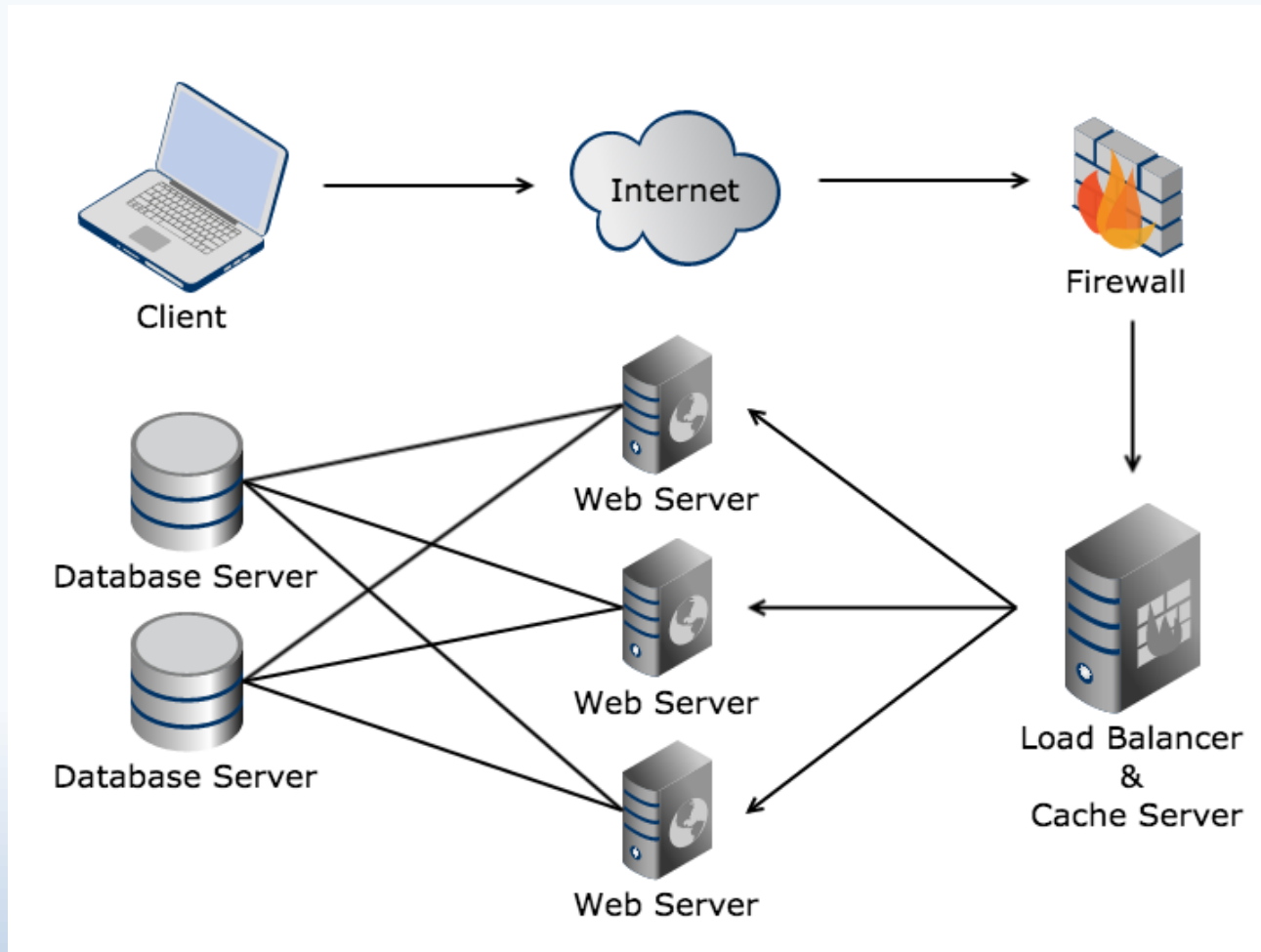
1. Amazon Web Services (AWS)
  2. Google Cloud Platform (GCP)
  3. Microsoft Azure
  4. DigitalOcean (DO)
  5. Alibaba Cloud
  6. Oracle Cloud
  7. IBM Cloud
  8. More ...
- Market of cloud (Guru99, 2020)

# WebApp Work

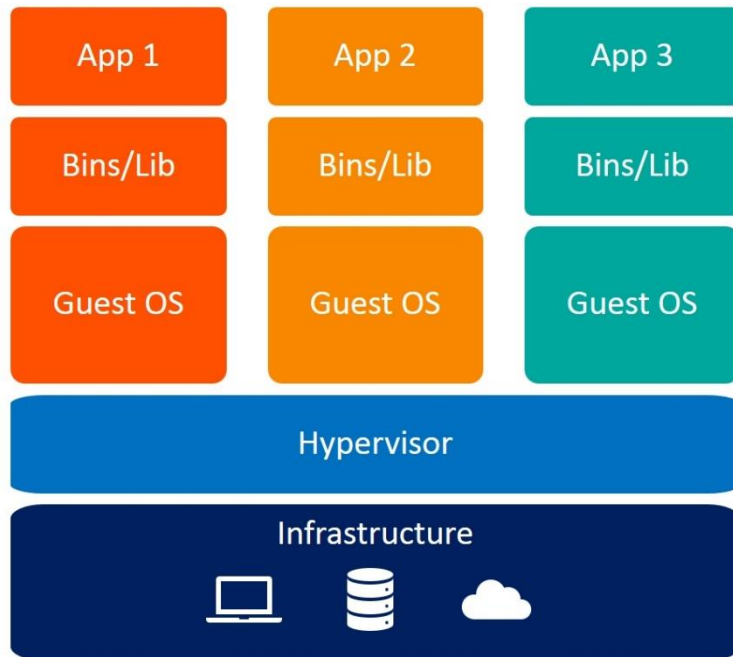


1. Client / Browser
2. Cloud Server
3. Web Server – Apache/NginX
4. Application Server – PHP, NodeJS - Extension/ Module
5. Database Servers
6. Images Folder/ Storage Object File

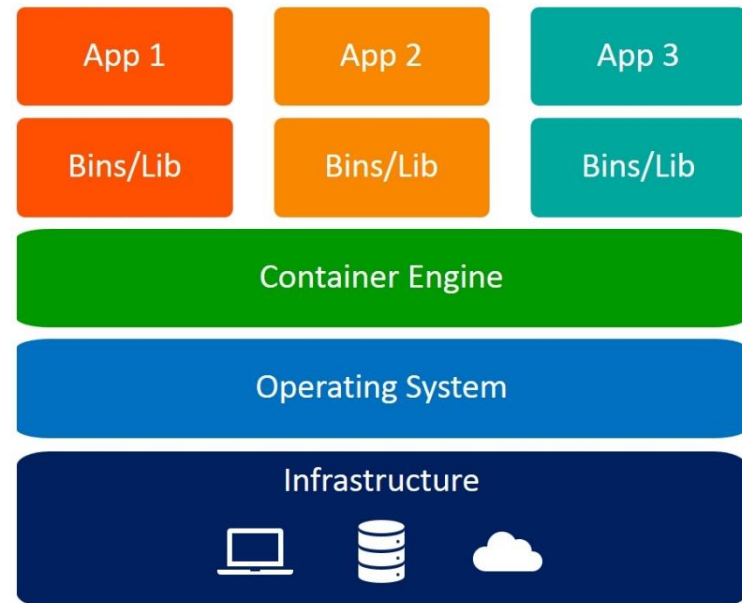
# Web Server Work



# Docker Container



Virtual Machines

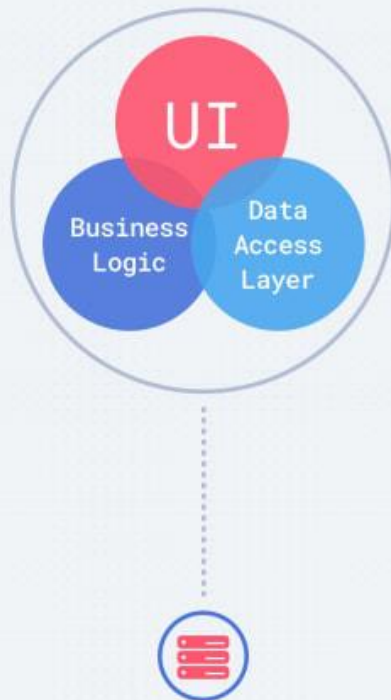


Containers

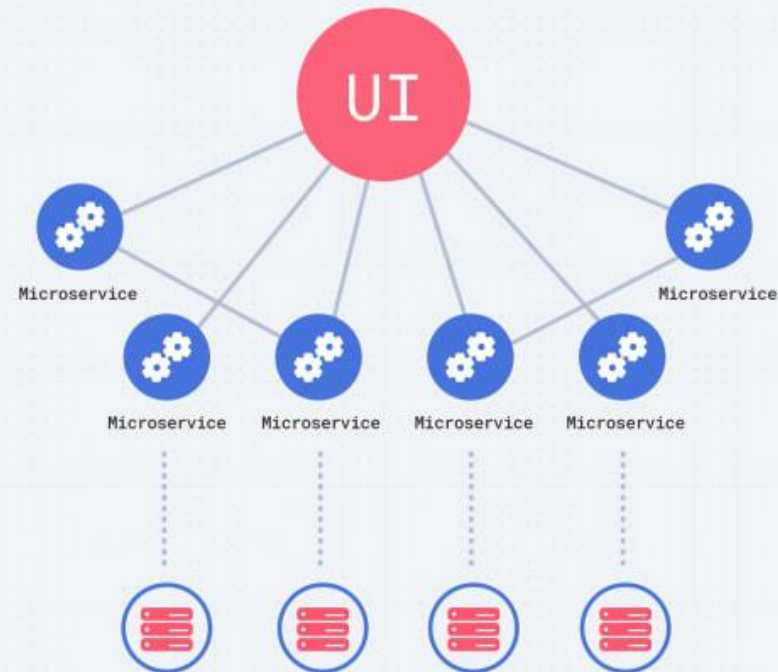


# Monolithic vs Microservice

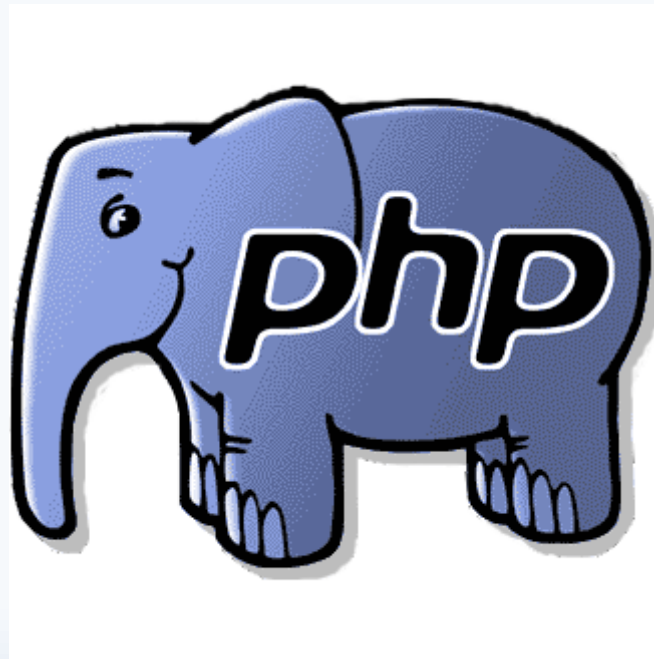
Monolithic Architecture



Microservices Architecture



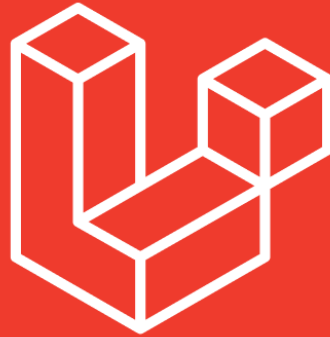
# PHP - Server Programming



# MySQL – Relational Database



# PHP Framework



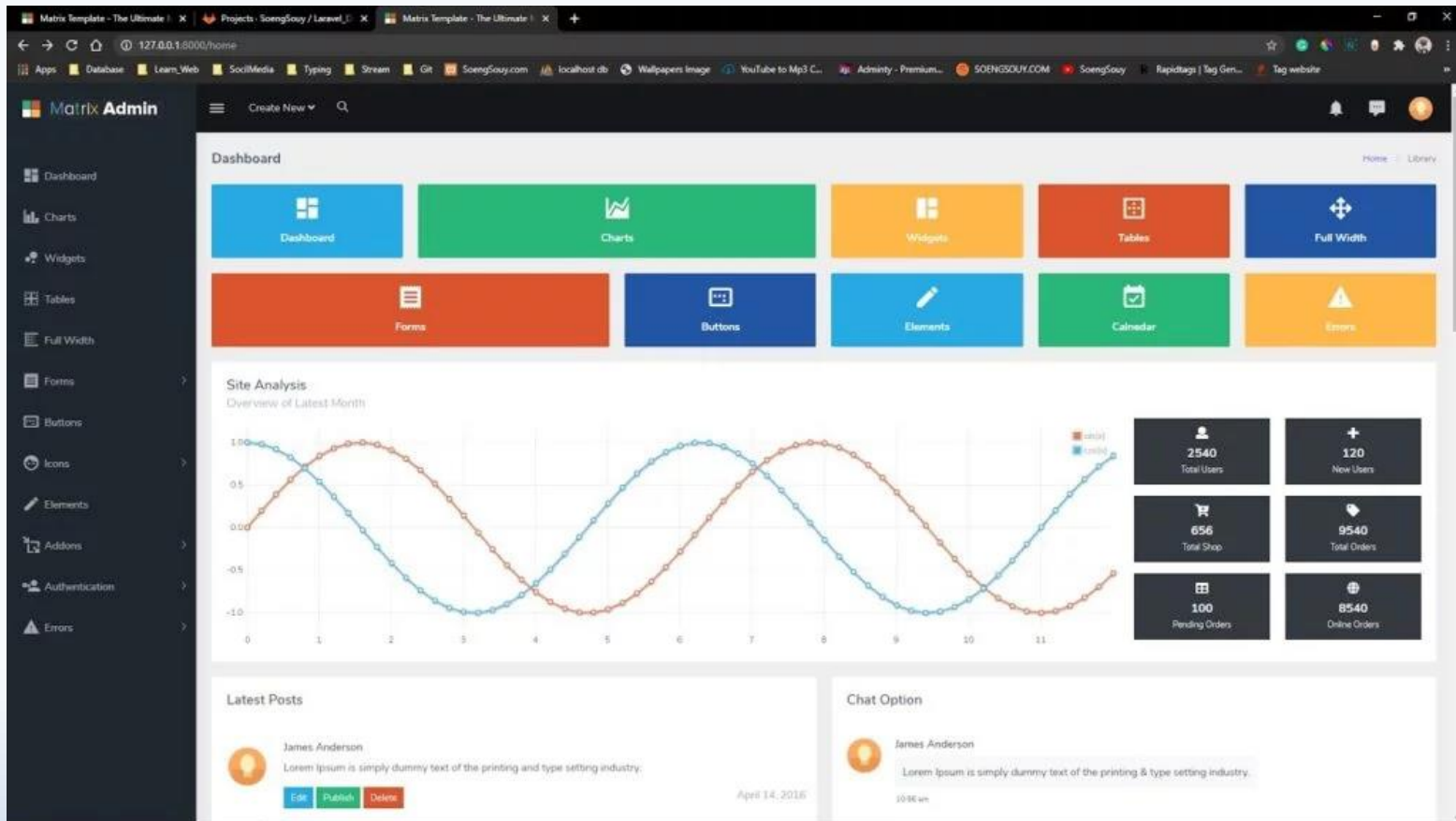
**Laravel** **8**

# API



Lumen

# Backend – Admin Panel



# Defense Final Project

1. Web-based Application System
2. Ready Hosted on Cloud
3. Scalable Database Server
4. Scalable Application Server
5. Documentation