[ERP Web Solution]

USMAN AHMED

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1. INTRODUCTION

This proposal is in response to a Information shared by client.

PROPOSAL:

This document will serve to provide details for the Development of ERP offered to Party B. The collaborating parties include:

Party A	Party B (Client)
The Sots	Deli Glassware Company

Terms and Conditions:

- Party A is providing Application Development Services to Party B
- Party A is to Provide Part B with an End-to-End Secure Website Frontend and Backend.
- Party B has complete copyrights and is the rightful owner of the source code and database provided by Party A
- Party A will not use or copy the source code developed for Party B to any other third-party client

2. SCOPE OF WORK

Scope of work would include below Phases.

- o Backend/Frontend of ERP Web Portal
  - User Management
    - Role Management
    - Permission Management
  - HR Module
  - Finance Module
  - Procurement Module
  - Logistics & Warehouse
  - Equipment Management
  - Dashboards

3. PROPOSED SOLUTION

3.1 TECHNOLOGY

Proposed solution is based on Laravel Framework for backend, which is powerful Framework currently available and Frontend Framework will be any JavaScript Framework e.g. (Angular, React, Vue).

3.1.1 WHAT IS LARAVEL

- A powerful Application Framework
- A Web Experience Management System
  - Content Management
  - Community Management
  - Commerce Management
  - Much More
- Laravel is Powerful, flexible Extensible, reliable, configurable, Scalable, stable and secure

3.1.2 WHY LARAVEL

- **Modern** sites are using Laravel
- **14%** of the 10,000 most visited sites use Laravel as their framework
- **Powerful Web Experience Management System clubbed with modules and can be seamlessly extended via powerful API Engine**

Laravel as the intersection of web content management system, application framework, and social and semantic publishing platform encompassed by a diverse community

3.1.3 LARAVEL FEATURES

Security
Secure & protect your users

Performance & Scaling
Perform under pressure

Multilingual
Allow seamless translation

Accessibility
Make your content accessible to the widest possible audience

Marketing Automation
Target your reach with audience customization

Content Authoring
Integrate a diverse yet simplified ecosystem of multichannel messaging

Personalization
Turn customer data into one-to-one custom experiences

Content as a Service
Decouple your front-end & back-end to scale content across silos

3.1.4 Laravel Architecture

Laravel Framework allows seamless control over all layers / Blocks thus supports complete customization as per requirement. Laravel leverages power of Blade Template Engine & Bootstrap for easy customization and changes.
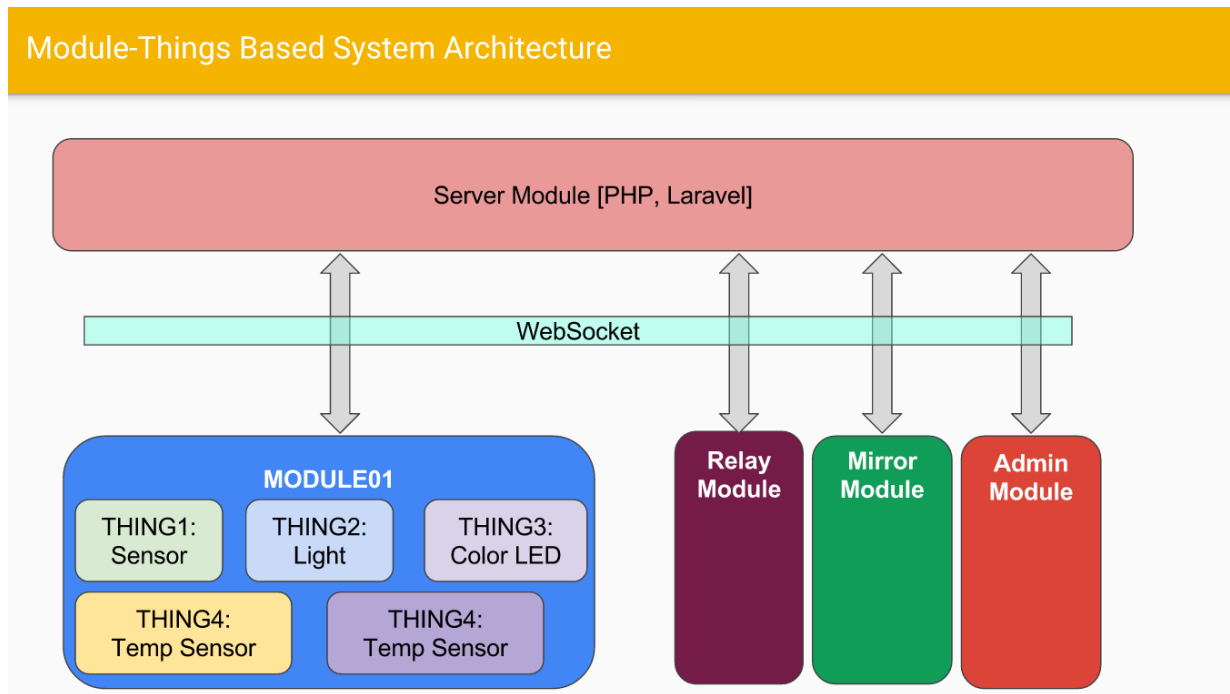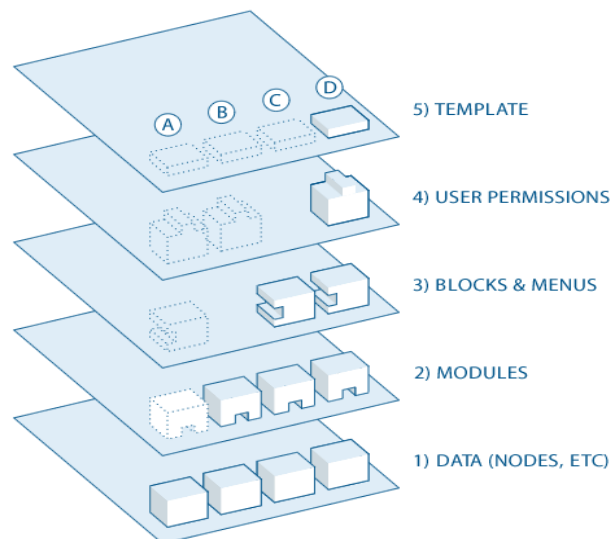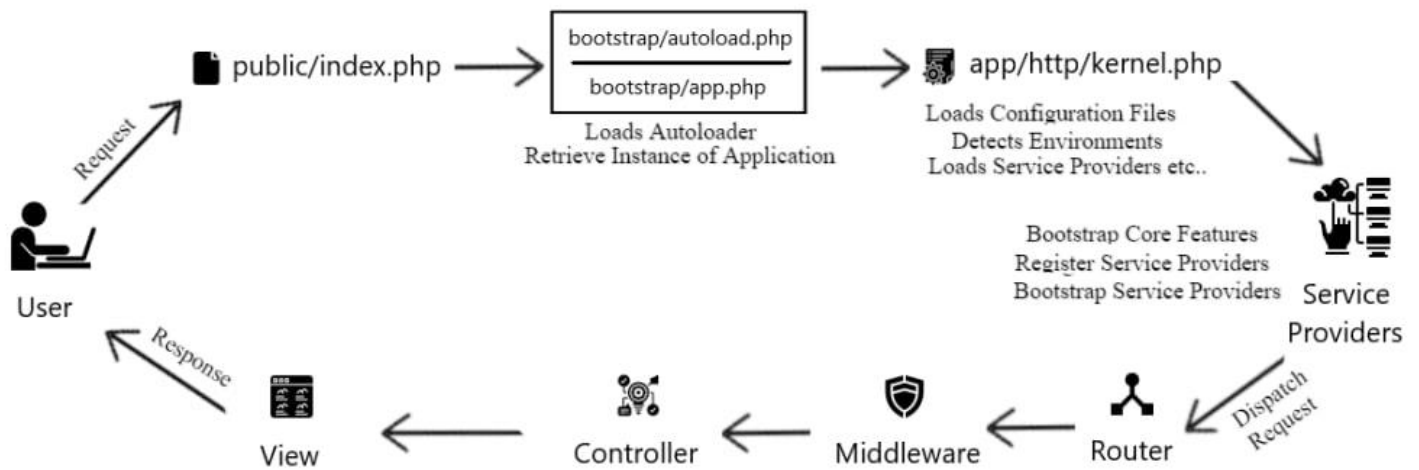

FIGURE 1: LARAVEL ARCHITECTURE

FIGURE 2: LARAVEL APPLICATION FLOW

Laravel applications are based on the popular LAMP Stack that stands for Linux, Apache, MySQL and PHP. Perl is not part of the stack, but is also a common scripting language used within a LAMP stack to provide batch processing and data load services.

3.1.5 HEADLESS APPROACH

We will follow Headless CMS Approach for this Project.
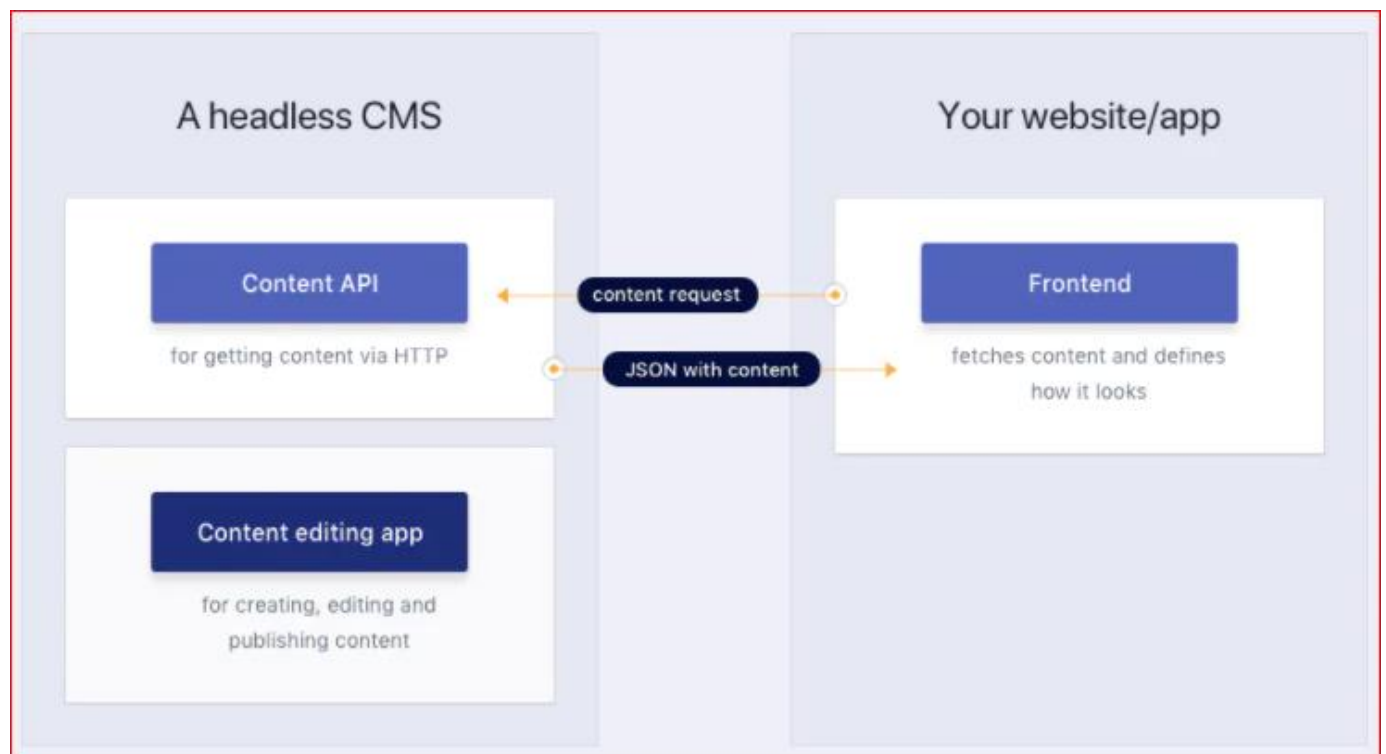
In the graph, we can see that **Laravel serves as the backend system**. The frontend, which the client sees, is separate from Laravel. That is where the headless name comes from - Laravel does not have the top layer anymore (the head ;), but only exposes the APIs which the frontend consumes and uses as content sources. The frontend can be built in various frameworks and programming languages. Mostly, however, this will be one of the below:

- **JavaScript**
  Vast majority of cases - frontends are mostly built on frameworks like React, Angular or Vue, which allow for quick creation of dynamic and interactive interfaces. If there is a requirement (eg for SEO purposes) to pre-render the pages on the server, Nextjs or Gatsby can help.

- **PHP**

Sometimes the frontend is built on a fast PHP framework like Symfony or Yii. This would be done mostly when pre-rendering on the server is required. An additional upside is that since Laravel is built on PHP and uses Blade, often the same team is capable of handling the frontend.
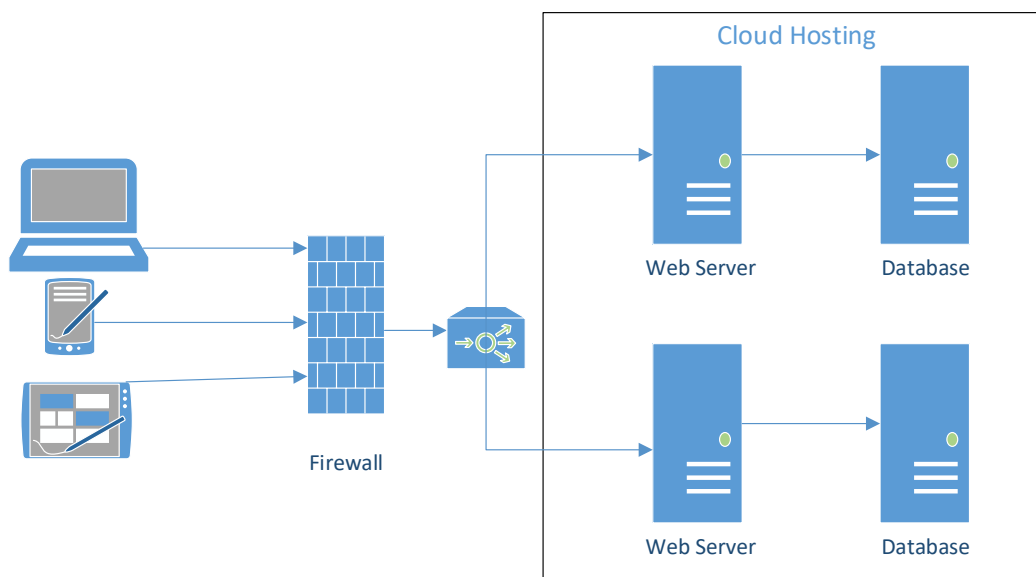
- **Any other**
  A website in any other technology which can talk to an API can consume content from Laravel.

3.2 LOGICAL ARCHITECTURE
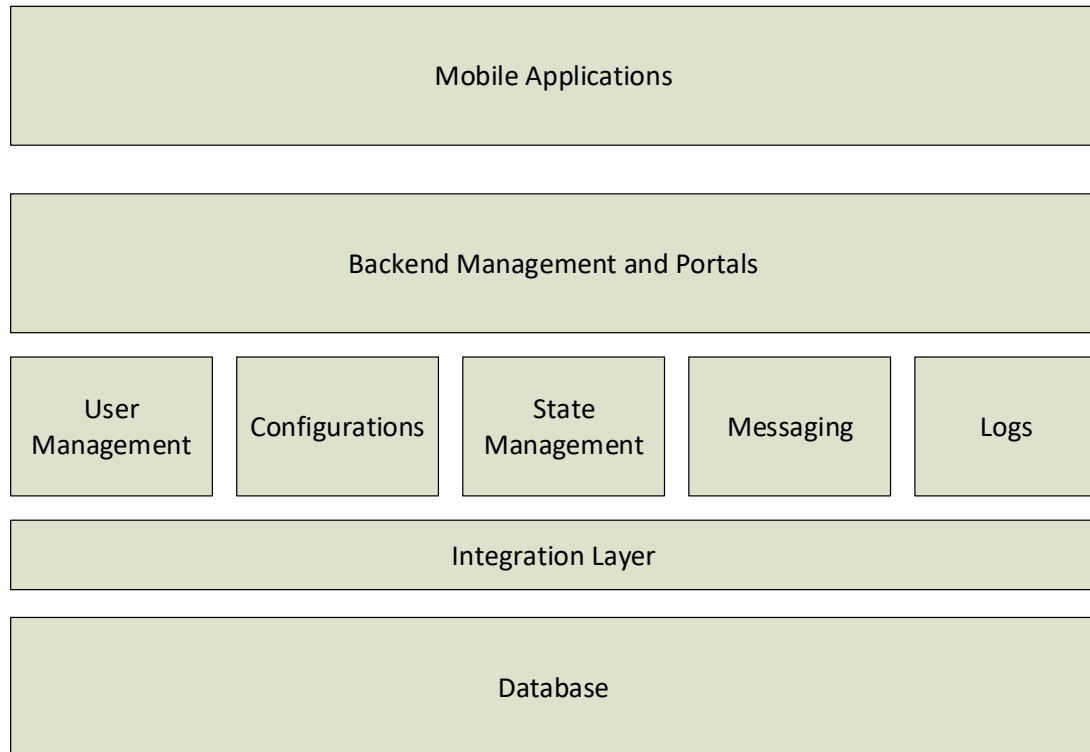
3.3   DEPLOYMENT ARCHITECTURE

FINANCIALS

Deliverables (Backend and Mobile APP)	Delivery Schedule	RATES ($)
System Analysis & Understanding of system	5 Days	**250**
Documentation and agreement	3 Days	**250**
Configuration • **Backend/Laravel** • **Admin Theme Configuration** • **Extensions/Package** • **Frontend Framework Configuration** • **FE Extensions/Packages/Modules** **Git Repo and environment Configuration**	3 Days	**750**
Basic CMS and MIS Configuration e.g. • **Field Management** • **Configuration Management** • **Status Log / Error Log Management** • **Crud Management** • **Media Management** • **Cache Management** • **Compression/Aggregation**	5 Days	**1,200**
System Modules • HR Module • Finance Module • Procurement Module • Logistics & Warehouse • Equipment Management	44 Working Days	**4,200**
User/Roles/Permission Management	4 Days	**550**
Notifications • **Email Notifications** • **Admin Notifications**	3 Days	**550**
Dashboards • **Admin** • **Content Manager** • **Content Editor**	5 Days	**650**
Reports / Statistics	5 Days	**550**
Quality Assurance • Check Test Cases of whole web backend and Frontend • Mobile Responsiveness • Check All Designs/Layouts • Cross Browser Testing • Stress Testing • Unit Testing • Load Test **Note:** QA process will be part of every above part of development.	From start of the project but final report will be share after project completion.	**1,200**

IS (Information Security)	From start of the project but final report will be share after project completion.	1,250
Price Note: Exclusive of Tax*		**11,400**
Total Price	77 Working Days	**11,400**

FEEDBACKS

Any feedback received will be evaluated and will either be made part of Backlog (to be scheduled in appropriate sprint) or will be added to a separate Enhancements list (if out of the agreed scope).

Party A will provide a warranty for a period of one month and this duration will start once website will go live. After warranty period, a detailed software maintenance contract can be established between Party B and Party A to ensure continued support of the web system. Warranty period would not cover additional customization requirements in the website. In case of multiple modules deployment, warranty will be started from the date of module delivery.

Development team will follow the mentioned escalation plan for feedback & approvals.

1.1. SUPPORT & MAINTENANCE

After warranty period 40% of the project cost will be charged as annual support, maintenance and minor customizations fee. On the other hand, major customizations will be charged separately.

It includes:
• Troubleshooting
• Re-Installations
• Minor application Upgrades

Party A's Helpdesk support will be available from: Monday till Friday: 09:00 till 18:00 (Pakistan Standard Time).

1.2. CHANGE CONTROL

• Should a change in effort against work items in the proposed scope occur, a separate estimate would be done for the changed scope.

• Estimates within this proposal have been based on "best" knowledge from the information and data supplied. Should further investigation show items demonstrate a change in effort, the scope of each work item will be fully assessed, re-estimated and the client will be immediately notified so that a process of change control can take place to manage scope.

• A change control mechanism will be maintained so that the client product team can evaluate how work should proceed on the affected work items should there be a change in effort

• Should a decision be taken to maintain the affected work items in the scope of this phase, then these will be subject to additional charges at a pre-agreed rate per hour.

• Similarly, if items are de-scoped, the proposal will either be updated to reflect this, or alternatively a mutually agreed decision can be made to replace the affected items with a substitute of similar effort.

• Any items, which are deemed to be outside of scope, will be subject to the change control mechanism and additional charges may apply at the project rate.

CONFIDENTIALITY

Confidential Information shall mean all confidential and proprietary information disclosed by the parties to each other, orally or in writing, including, without limitation, either party's Software, documentation, trade secrets or other proprietary information, with respect to both party's business and operations Confidential Information.

PAYMENT TERMS

#	Stage	Percentage	Price
1	Mobilization Advance	40%	$ 4,560
2	Approval of First Module	20%	$ 2,280
3	UAT Demo. Your website "draft" will be posted to a testing area for you to view and request final editing changes. After final edits are reviewed and approved, the remaining 20% payment of your website will be due. After receipt, the website will be published under your domain name	20%	$ 2,280
4	UAT Approval	20%	$ 2,280
	TOTAL	**100%**	**$ 11,400**

Note:

- Please note that Analysis phase will be started after Mobilization Advance is received.
- Recommendation of Hardwar/Hosting will share after analysis phase.