



System Requirement Specification

LPG ERP

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Introduction

"Amar Bebsha Limited" is perpetrated to manifesting new and valuable software for their invaluable customers. We denote to ascertain a comprehensive LPG ERP based on our customer obligations. We hope this evolutionary software will make the entire ERP business easy to understand and track everything effortlessly.

Purpose

LPG business and trading have been an intricate and mixed-up task in Bangladesh. With diverse sides and variations of transactions and operations, this business is getting more convoluted by the day. So, business people and traders want a mere solution to do everything in a compact place with easy access and docility. Our purpose is to serve our customers a pleasant experience of LPG business and make everything smooth and ready-made so that they get an outstanding user experience.

Intended Audience

The software will be more acquiescent to the people directly or indirectly correlated to the LPG business. We have targeted those corporate people and their organizations as our product consumers. Apart from that, this software will also be able to use on other but similar business bases.

Intended Use

The consumer can use this software for numerous objectives. First, a comprehensive page to see the total summary of transactions, inventory system-related operations, accounts-related entries, voucher generation, the user adds, remove, staff-related editing, etc. Then there will be a report generation system for all the operations and transactions. The software is intended chiefly for a diverse level of works in an LPG industry.

Scope

Scopically, this is a worthwhile project. The hosted website will be handed over to the customers, giving them every privacy access except for the source code. The primary aspiration of this project is to serve the needs of an LPG anatomy conclusively. The overall goal is to gain complete redemption from all the LPG business-related organizations since this type of development has not yet been initiated. Aloof from the development team, the testing, accounts, HR teams will also get the initial access to make a bug-free and impeccable product. The sales team will be given a demo link to show off to the customers.

Definitions and Acronyms

It's wise to incorporate a risk definition. Malingering risk is top-of-mind for many developers — especially those working on safety-critical development teams. This product will also have its risk factor and interpretation. In the development phase, a lack of project management can transpire, making the whole stage disruptive. To tackle this issue, we will have our dedicated project superintendence team along with some experienced supervisors. Again, the software will be all about transactions and account-related operations. So, a simple mistake in calculation will make the whole system volatile. So, a dedicated accounting team will have access to the product to check the factors continuously. The product may also face an after-sale crisis which should be monitored and predicted during the development phase.

Overall Description

The software will be constructed based on measuring the user requirements. Some requirements will not be mentioned, but they have to be developed to complete the operations.

User Needs

The system will be sketched to handle a multi-level of users, including their privacy settings. The super admin will have all the access, and the immediate user will have a little more concise access, perimeter by the super admin. And thus, the hierarchy will go on. Our customer base wants a complete LPG ERP solution, which will carry a dashboard visualizing all the income/expense records. They also want to nurture vouchers, and they will generate and edit vouchers according to their sales/purchase needs. So, we will develop a voucher system and make it edible. An LPG system also demands staff, vehicles, godown lists, accounts information, sales information, etc. Our users also need these types of features for their ERP. So, we will develop different modules according to their usage history. The user may also need to change the basic settings, header or footer text, images. So, a diverse setup menu will be kept to make their navigation easier.

Assumptions and Dependencies

Apart from a clear and precise user requirement, there should be some assumptions and dependencies to develop the system. The user privacies should depend on the user roles. We aim to render several additional graphs to make every type of transaction easier. The whole system will depend on correct product input, vehicle, seller, buyer input, etc. So, the system will be highly ancillary upon the proper input process. We assume the customer base will have basic comprehensions and workflow of excel, graphs, and account-related operations. If the case is not the same, we intend to make the system guidable and give them individual training.

System Features and Requirement

Functional Requirement

Functional Requirements are indispensable for any product development. For our LPG ERP, we have found out these most important FRS'.

- The system will summarize all the transactions, income, expenses for a certain period with graphs in a dashboard.
- Admins should be able to add sales data.
- Admins can generate a purchase order, voucher, and cylinder tracking-related information.
- Admins can add suppliers, product categories, brands, and packages.
- The system will generate a report after each input about sales, supplier, and product.
- The admin can generate sales orders, invoices and also add a new customer to record transactions against him.
- The system will also generate customer-wise sales reports.
- There will be a COA system, ledger entry, income system, cashbook, bank book system for different thresholds.
- Admin can configure the godowns, branches, vehicle numbers, etc., as per the necessities.
- The admin will have the power to determine which type of user will have what kind of access. He will be able to import new products, adjust the opening balance, add new vehicles and staff, etc., related to the LPG business.

Non-Functional Requirement

We endeavor to take non-functional requirements solemnly and always strive to fulfill them as much as possible. For our system, the following non-functional requirements have been chosen:

Security: The system will have customer data and account information that are acknowledged as very sensitive. So, we will provide extra security and data protection feature.

Capacity: The system will be hosted differently for different companies. We are assuming to have at most 200 visitors per domain. So, we will develop the plan with this requirement, and this can be extended further.

Reliability and Availability: The system will be developed using CodeIgnitor, one of the most reliable frameworks. The system will be available for all general customers correlated to the LPG business.

Maintainability: The system will be uniformly maintained and updated by dedicated developers. After the initial release, several new versions are planned to increase smoothness, usability, and security.

Usability: The system will be straightforward, with proper guidance where obliged. The operational names will be kept exactly how they work. The UI will be neat, compact, and easy to operate. Loading time will be kept ≤ 2 seconds or lower by optimization as good as possible.