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**VICMAK**

**(APPLICATION FOR ENABLING ONLINE ORDERING AND DOOR STEP DELIVERY OF GAS CYLINDERS)**

***PROJECT SCOPE***

***December 23, 2022***

***OVERVIEW***

**1.Project Background and Description**

In our daily lives, replacing gas cylinders and supplies is tiring given that we have to physically go to the vender with our empty cylinder and pick up a new one. Sometimes the gas cylinder of your choice is not available, so you are forced to come back another day. Vicmak brings the idea of ordering the correct gas or equipment through the app and getting a confirmation from the vendor if it is in stock, then you get to pay through mpesa, cash or credit card and get it delivered to your doorstep.

The purpose of this documentation is to outline the operations and design of the Vicmak Gas Supply system. This supply system is made up of two applications; one for the customer end and the other for the admin managed by the business owner. It gives a brief snapshot of what the applications involve, while outlining the key modules.

The user application enables customers of the business to be able to make gas cylinder delivery orders at the comfort of their homes. The manager application helps the business owners to be able to manage their records without having to use pen and papers nor doing calculations. The app does all the work of calculating daily commissions and managing the stock.

**2.Project Scope**

To achieve its purpose, the project will be implemented as a mobile application that can be downloaded on android devices and used online. The application will use Firebase SDK to fetch data from the database. The user interface will be created using android XML and the backend will run on JAVA and Node.js.

**System Features:**

1)A user-friendly and responsive interface.

2)A search option

3)Push notifications

**3.High level requirements**

The system must include the following: -

* Ability for customers to view stock available.
* Ability for customers to make orders of the desired item.
* Provision for customers to view, edit and even delete their accounts.
* Provision for customers to view their order history.
* Ability for business owners who are the admins to be able to manage their stock.
* Provision for business owners(admins) to be able to see daily, monthly and yearly commissions without having to manually calculate the commissions.
* Provision for the business owners(admins) to be able to track the frequency with which the products are being sold and determine the most and the worst selling commodity.

**4.Deliverables**

* UI prototype containing the designs.
* Backend software
* Technical documentation
* Customers’ application accessible through smart phones
* Admins’ application accessible the business owners.

**5.Affected parties**

* Customers
* Business owners/Admins

**6.Affected business processes**

* User/Customer registration
* Order placement

**7.Specific exclusions from the scope**

* Customers cannot delete their order history.
* Customer cannot cancel an order on his/her own after it has been made.

**8.Modules**

* User Authentication.

This module is used by the customers. They are able to create their accounts and log in to them and likewise delete or change their accounts.

* Order Management.

This module too is used by the customers It displays the kind of cooking items that Vicmak gas suppliers offers, the available stock and their current prices to the users. The module also enables the customer to be able to place an order on the desired item.

* Stock Management.

This module is used by the admin. It is responsible for ensuring the balance of the stock, keep track of the items that have been sold, the remaining stock in the shop and the new stock that has arrived.

* Sales Management.

Used by admin. This module helps in managing the sales. It keeps track of the calculations of the commissions that have been generated from the sales made on a daily basis. It is also responsible for resetting the database at the end of each business day so as to have blank records for the start of the next business day.

* Users Management.

This module is responsible for managing the users of the app. The admin can delete a user, track the user’s usage of the app, and other crucial statistics that the admin needs from the user.

**9.Implementation plan**

The project will kick off with the development of designs for the system.

The designs will be used to develop the prototype for the app with test stubs in place of final logic for the system.

The prototype will be tested by the group to verify if the user interface is up to par and that the layout is perfect for the use intended.

The stubs will then be replaced with the actual operational logic for the app and all elements of the user and manager apps are implemented fully.