**GEAR UP: DOCUMENTATION**

**A Final Requirement Presented to**

**IT 322 – Integrative Programming and Technologies**

Group 1:

*Palis, John Arthur B.*

*Alangilan, Christine Joy M.*

*Atienza, Ma. Antoniette G.*

*Guerra, Marian Z.*

*Guerra, Mariel Z.*

Batangas State University

**Abstract**

Nature exists in businesses and some of these are simple to manage, while others are more tough. The need for such software is rising every day, and as a result, the numerous organizations offering related services is also increasing. This proposed project seeks to develop Gear Up, a mobile-based application for managing commercial inventory systems. Also, this application will be used to manage a business with the assistance of a technology system and will allow the users to add, modify, and update items, as well as view and delete item. Furthermore, this project minimizes paper work, human errors, manual delays, and accelerates the process. The scope of this project focuses on the monitoring inventory supplies of a hardware store. To achieve the purpose, the mobile-based inventory application database records the information of the supplies present in the businesses. Inventory optimization is the process of reconciling capital investment limits and goal-achievement restrictions. As a result, this project will be able to reduce and supports sustainable inventory and safety inventory levels.

This mobile-based inventory application is essential for ensuring quality control in businesses that deal with consumer items. A large retail store may run out of stock on an important item if inventory is not regulated properly. The managers should ensure that the goods are offered appropriately and that there is always enough stock available. If the business keeps too much stock at any given time, it will be unprofitable since the cost of keeping would have been too high, diminishing profitability. The worth of revenue lost in order to purchase the stock will be excessively high, the space taken up by the stock will be enormous, and the management of that stock will be expensive. But in the other side, keeping sufficient stock at any given time will lead to a good sale. Time, economies of scale, seasonal unpredictability, and seasonal demand are all reasons why inventory should be kept.

**Description of the Project**

The Gear Up Inventory Application is a real-time inventory database capable of keeping track of various products.

**Problem Statement**

**Objectives**

The general objective of the project is to develop a mobile inventory application that will help in the operation of a business.

Specifically, it is aimed to:

1. To reduce paper work, human errors, and manual inventory delays.
2. To provide a user-friendly and concise service through the use of mobile application.
3. To increase the performance and efficiency of the process in monitoring inventory.
4. To increase the accuracy of measuring and reviewing products in a business.

**Features of the Application**

**Development Model**

**System Architecture**

**GitLab Repository**

**Team Members**