**Warehouse Industry Android Application Dashboard**

**Group 11**

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**Motivation:**

The primary driving force behind this project is to develop a Real Time Application that will assist the Owner or Manager in obtaining real-time status information. This Dashboard will include information on the purchasing and selling of goods, employee attendance, and customer service.

With the help of this dashboard, we can keep track of client requests and respond to them whenever they give us questions or requests concerning our products.

Real-time dashboards allow us to monitor live databases and show data visualizations in Android application stores.

**Significance:**

A warehouse Android dashboard is significant for several reasons Because it Provides. A warehouse Android dashboard enables real-time monitoring of warehouse operations, including inventory levels, and shipping status, which helps managers to make timely decisions and improve efficiency. Data Analysis Warehouse Android dashboards provide access to data analytics and insights, enabling managers to analyze warehouse performance and identify areas for improvement [1]. A warehouse Android dashboard facilitates inventory management by providing real-time inventory visibility, tracking stock levels, which helps to optimize inventory levels and it can reduce inventory costs.[3] Warehouse Android dashboards enable order tracking from receipt to delivery, providing visibility into the status of orders and ensuring that orders are fulfilled on time. A warehouse Android dashboard can be accessed on mobile devices, allowing managers to monitor warehouse operations from anywhere, anytime, and make informed decisions on the go.

Overall, a warehouse Android dashboard plays a crucial role in improving warehouse operations, increasing efficiency, reducing costs, and enhancing customer satisfaction by providing real-time data and insights into warehouse performance.

**Features:**

➢ **Real time tracking of raw material:** The app we develop provides real time information

on inventory levels of each raw material in warehouses and provides visualization

statistics on dashboard.

➢ **Automatic Inventory update:** Automatically update the inventory levels as raw

materials received or used in app such that our statistics in our app are updated.

dynamically.

➢ **Creative and Customizable dashboards:** Creative and customizable dashboard

templates will be provided to users to visualize the statistics in different representation.

➢ **Notification Alert:** App allows user to set a minimum and maximum threshold value,

once it reaches the threshold or expiration date of raw materials a notification alert will

be sent to the user.

➢ **Report and data analytics:** App allow users to be able to assess inventory levels and

make data-driven decisions using the app's reporting and analytics tools.

➢**Demand and Supply Feature:** In this Dashboard we can get to know which Product has been having the high demand by this in warehouse we can be able to know the Demand of the Product by this we can increase high demand of the Product.

➢ **User Authentication and authorization:** To guarantee that only authorized people can access the inventory information, the app has a unique feature of user authentication.

**Objectives:**

The objectives of a warehouse industry Android application dashboard can vary depending on the specific needs and goals of the business. However, some common objectives include:

* **Inventory Management:** The dashboard can provide real-time updates on inventory levels, location, and movement within the warehouse, ensuring efficient use of space and timely replenishment of stocks. [2]
* **Order Management:** The dashboard can help track orders, monitor order fulfillment status, and facilitate order processing, enabling better coordination between the warehouse and the sales team.
* **Performance Monitoring:** The dashboard can provide metrics such as productivity, cycle times, and accuracy, which can help identify areas for improvement and optimize warehouse operations.
* **Customer Service:** The dashboard can provide real-time information on order status and inventory availability, enabling better customer service and faster response times to customer queries.
* **Analytics:** The dashboard can provide data visualization and analysis tools to identify trends, patterns, and opportunities for improvement, enabling better decision-making and strategic planning.

**References:**

1. <https://www.researchgate.net/publication/263590784_Organizing_warehouse_management> [**René B.M. De Koster**](https://www.researchgate.net/profile/Rene-De-Koster) August 2013
2. <https://www.getapp.com/operations-management-software/warehouse-management/os/android/>
3. <https://www.researchgate.net/publication/360734122_WAREHOUSING_AND_INVENTORY_MANAGEMENT>

**Git hub Link:**

https://github.com/Suryavamsi24/Software-Engineering-Group-11-