System. 4 Stock Maintainance Design and implement a Stock Maintainand System that enables organizations to efficiently track, manage and update inventory in real time. Inaccurate inventory data, the challenge of managing Stock across multiple location and the risk of overstocking or understock leads to a necessity of the Stock Maintainance System, ! Introduction: 1.1 Purpose of the document? Purpose of this document is to outline the requirements and specifications for the development of Stock Maintainance System It will provide a clear understanding of Project Objectues goes and Scope 1.2 Scope of the document? This document defines the overall working and main Objective of the Stock maintanance System. It includes features Such a Stock tracking updates, vendor managent 1.3 overview. The System is designed to help organizat efficiently track their inventory and Stock levels. It will provide functionale like product entry updaling Stock quantities, Purchass and Sales Lickay

2 General Description:

The Stock maintainance System will serve, business, warehouse and retail shops by enabling accurate and real time stock

tracking. It will reduce manual record Keeping Improve operational efficiency.

3 Functional Requirements:

3.1 Stock entry & tracking. · Add new Stock items with detaily "update stock quantities in real time \* Track incoming and outgoing Stocks

3.2 <u>Vendor & Supplier Management</u>:

· Maintain Vendor detaill for purchaies · Map vendors to Specific Stock items

· Generate monthly, and annual inventory reports · track most Sold and least sold items 3:3 At Reporting

· Mountain logs of Stock updates Guseraclus
· Role based access 1.4 Audt & Security:

· Role based accey Prevent unauthorized changes to Critical data

4-	Interface Requirements:
4.1	· Simple dashboards for Staff · Admin dashboards for reports & Analytic
4.2	Integration Interfaci  Integration with Saler System for auto Stock deductive
S	Performance Requirements.
₽.1	Response time: The system should update and display the stock records within 1-2 Seconds.
5.2	Scalability: Support at least 10,000 Stock items and 1000 concurrent users.
6	Design Constraints-
6.1	Hardware Limitations! The system should work on desktop, Laptop and mobile phones.
6.2	Software dependencia:
2	Relational database (Mysgl) Middleware using java

## Non Functional Requirements: 1.1 Security: Implement role based access, secure authent calion 7.2 Reliability: Ensure 99.9% uptime 1.3 Scalability: Support expansion for large warehouse and chain business 7.4 Portability: work across mobile desktop and web 7.5 Usability: Simple interface for warehouse Staff and managers 8 Preliminary Schedule and Budget: · Estimation time 5-7 months · Budget estimation \$ 150,000