| 28/4 | Classmate Oute Page |
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| 2 | Stack Maintenance System |
| | Problem Statement |
| | Design and implement a stock Modatenance System to efficiently manage inventory livels , track stock inflow and putflow, prevent shortages or overstock situations and generate real-time reports to support informed decision-making. |
| | Ses Document - |
| | 1.9 ntroduction |
| - | and the same of th |
| | 121 Purpose |
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| - | The purpose of this document is to define the requir- |
| | o mplementing a state |
| | Joseph Mis (IAtom 1,511 - 1 |
| | and tracking stock levels to improve elliciet and |
| | and tracking stock levels to improve efficiency and |
| | and the training and and the of all and a |
| | 2 Supe |
| | The Stock Maintenance System enables organizations to |
| | a rear ome record of available whoch supplies |
| | and issued items. It will support stock updates, |
| | deport generation and notifications for low-stock leads |
| 1- | 3 Overview |
| | The system will consist of modules for stock entry, |
| | inanageron astore updates asearch and reported |
| | It will eneme data accuracy, minimalier manual eners |

and provide we grandly graphical interface 2. Greneral Description The Stock Maintenance System will allow authorize users to record and modify stock information automatically adjust inventory which when iten are added or issued, search stock Items by new code or category and Crenerate Bouentory Status reports and low - stock alerts 3. Functional Requirements FRI Stock Management: Add new stock ? tems with details the name, rode, quantity, supplies. FR 2 User authentication: provides authentication ej information. FR 3 Supplier Management: Generate alerts when stocks levels fall below predefined thresholds. Masstass supplier details details and link them with stocks items. FRY. Reporting: Generate accurate reports for stock levels purchase history and consumption trends Export reports in PDF or Excel formats 4. Interface Requirements 1. User Poterface: Intriffice and user forendly

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| | for store managers and staff. |
| | 2. Application Interface: Integration with payme gateways for suppliers payments. Integration which barcode iscanness for easy stock appliates |
| | The system whould suspond to use action which a seconds. Handle a minimum of 500 concurrent for -sactions during peak hours |
| | - sactions during peak hours. Fineure data consistency and necuracy or all modules. |
| | 5. Design Constraints |
| | - oud business handward (computers, printers barcode scanners, pos terminals). |
| | • Utilize a relational database managemen system for data istorage. • The system should support programming |
| | languages compatible with web technologies (eg . Java Python, PHP) |
| 7. | Non-Functional Requirements |
| 1 | Security: Implement vobust authentication a |

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| F | to minimize system downtime. |
| | code design to facilitate future enhancements maintenance. |
| | Poterface with clear nowligation |
| | 8. Preliminary Schedule and Budget |
| | 8.1 Schedule Timeline |
| | Phase 2 weeks Poquirements Analysis 3 weeks |
| | Development 4 weeks. Testing |
| | 8.2 Budget Eshmated -> \$38,000 |
| | 3 4 58,000 |
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