



**IJIRCCCE**

e-ISSN: 2320-9801 | p-ISSN: 2320-9798



# INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN COMPUTER & COMMUNICATION ENGINEERING

Volume 12, Issue 6, June 2024

**ISSN** INTERNATIONAL  
STANDARD  
SERIAL  
NUMBER  
INDIA

**Impact Factor: 8.379**

 9940 572 462

 6381 907 438

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# Sarvam Pulley ERP Software

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**ABSTRACT:** The project entitled “ERP System for Sarvam Pulley” is to maintain the entire pulley manufacturing materials sales and inventory process which is carried out in the Pulley manufacturing Companies. The project deals with maintenance of pulley manufacturing materials sales process carried out in the company. First the dealer or the customer has to create an account for making sales and purchase. Then the registered users can make sales or purchases. After making sales or purchase database is updated. First the company details and pulley manufacturing material details are added after creating account for the customers. Then the dealers or regular customers can make sales or purchase by choosing their desired pulley manufacturing material. The Pulley manufacturing Companies receives raw materials like pulley manufacturing material from the dealers. When they choose the pulley manufacturing material, only the available pulley manufacturing materials can be transacted. For maintaining that separate database namely stock is maintained.

## I. INTRODUCTION

The delivery service works as destination office or source office. The source office branch receives the order means consignments & sends it to the destination delivery branch. The company has certain rules according to the weight. Using the delivery service person can easily send his/her parcel to other person in the particular destination within the time. Nowadays, 50% of companies of the world use the services of various delivery companies. Proposed project will be designed based on the current requirements. The system receives orders from the users and will process it. Anyone can order items through the system from anywhere. The system can be implemented for any shopping company or for some other company.

## II. RELATED WORK

Provide a convenient and user-friendly platform for customers to browse menus, place orders, and make payments effortlessly from the comfort of their homes or offices .

### Efficiency in Order Processing:

Streamline the entire pulley manufacturing material ordering process to enhance efficiency, reducing the time it takes for customers to place an order and for pulley manufacturing suppliers to process and fulfill it.

### Real-time Information:

Offer real-time information on menu items, prices, and order status. This includes updating the availability of items and providing customers with live tracking of their orders.

### Feedback and Improvement:

Establish a feedback mechanism for customers to provide reviews and ratings. Use this feedback to continuously improve the quality of service, pulley manufacturing material, and overall customer experience.

## SCOPE

### Geographical Coverage:

Define the geographical area or areas where the pulley manufacturing material ordering system operates. This could be limited to a specific city, region, or expanded to cover a broader area.

**Cuisine Diversity:**

Include a diverse range of cuisines and types of pulley manufacturing suppliers within the system to cater to various customer preferences.

**Inclusion of Various Pulley manufacturing supplier Types:**

Include a variety of pulley manufacturing supplier types, ranging from fine dining to fast pulley manufacturing material, to offer customers a wide array of choices.

**Scalability:**

Design the system to be scalable, allowing for easy expansion to accommodate an increasing number of users, pulley manufacturing suppliers, and transactions.

**User Accounts and Order History:**

Allow customers to create accounts to store their preferences, order history, and delivery addresses. This facilitates a more personalized and efficient ordering process for returning customers.

**Integration with Pulley manufacturing suppliers:**

Facilitate seamless integration with pulley manufacturing supplier systems to receive and process orders efficiently. This may involve real-time synchronization of menu changes and order updates.

**Order Customization:**

Enable customers to customize their orders based on preferences, dietary restrictions, and special requests.

### III. SYSTEM ANALYSIS

#### EXISTING SYSTEM

When the stock and wish list pulley manufacturing material item count increases, manipulation of data becomes very difficult. Even though computerized system exists, there are various drawbacks. They are user cannot search wish list pulley manufacturing material items fast when the number of wish list pulley manufacturing material items increases. Primary key fields have been used while designing in order to manage database efficiently and for accessing information efficiently. But stock management is not efficiently done. User can only know when the stock is empty. Prior information about stock is not possible. It also gives the daily order details from the customer, service reports which are mainly used for the maintenance of the orders.

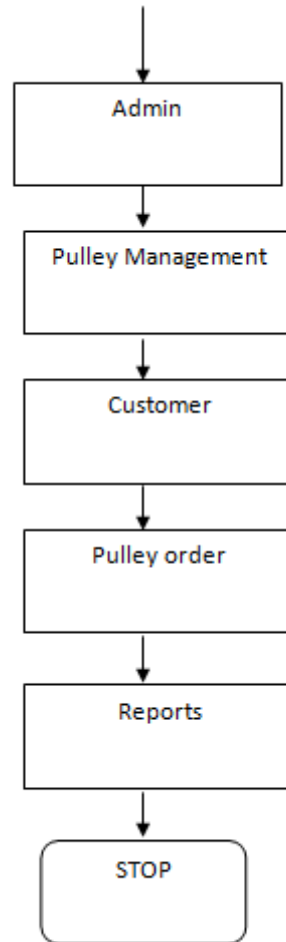
#### PROPOSED SYSTEM

Proposed system maintains the supplier details, customer details, pulley manufacturing material details and order details separately. It also maintains payment details separately and efficiently. It generates reports for cash orders and credit orders separately. Messages will be given whenever there is a need. When the user try to login with incorrect details, proposed system will be designed in such a way that it will prompt the message to the user. Same way when the user try to purchase items which is out of stock or not available, system will notify the user with an alert message.

Key aspects of the proposed system include:

- To keep all the details of each pulley manufacturing material
- To avoid mistakes when the record entry was done
- To take personal care of each customer and to analysis for the future development of enterprise
- Stock can be checked on every sales and whenever there is a less stock, system will remind the employee to purchase and keep that pulley manufacturing material with large quantity.
- While selecting the pulley manufacturing material for viewing details about the pulley manufacturing material, remaining stock will also be displayed as an alert message.

### BLOCK DIAGRAM



### DATA FLOW DIAGRAM

Dataflow diagram is a representation in which overall description of a system can be shown in the form of a diagram. The description of the system will start from the source of the content and with its destination. The diagram can be divided many different stages and each stage must give information about the system.

#### Steps to Construct Data Flow Diagrams

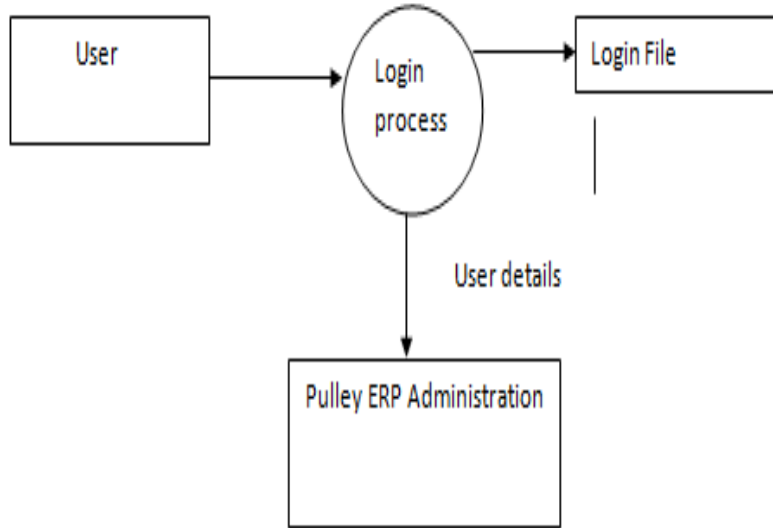
- Process should be named and numbered for easy reference. Each name should be representative of the process.
- The destination of flow is from top to bottom and from left to right.
- When a process is exploded in to lower level details they are numbered.
- The names of data stores, sources and destinations are written in capital letters.

#### Rules for constructing a Data Flow Diagram

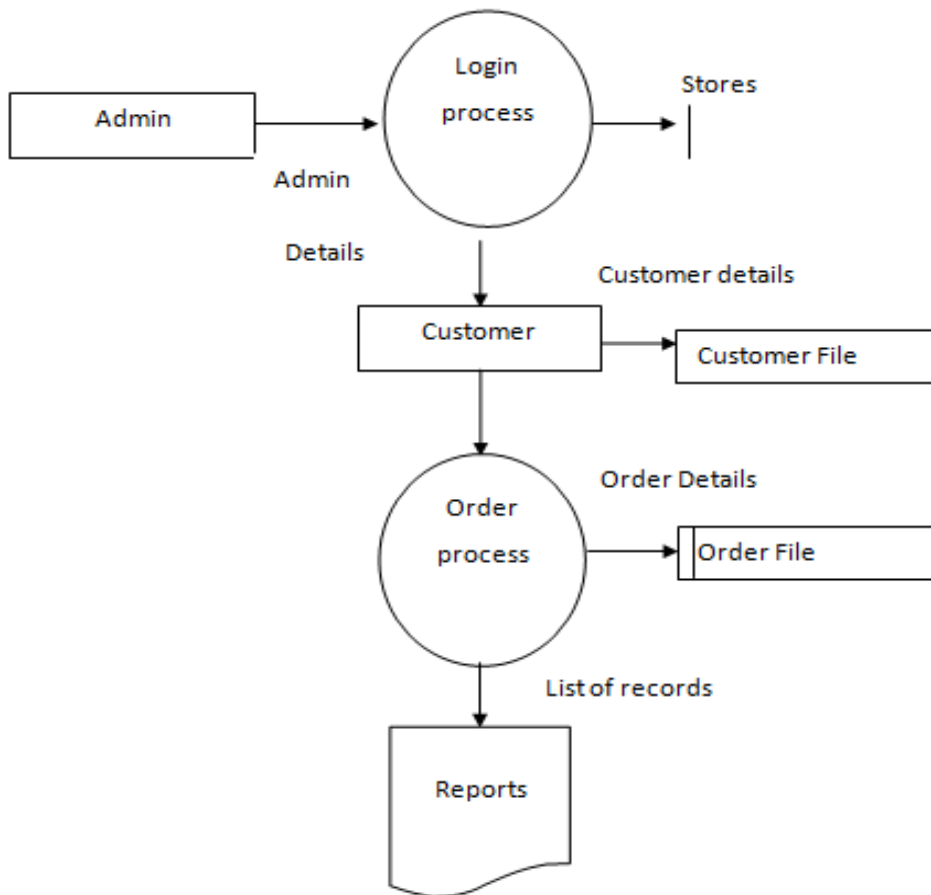
- Arrows should not cross each other.
- Squares, circles and files must bear names.
- Decomposed data flow squares and circles can have same names.
- Draw all data flow around the outside of the diagram

CONTEXT LEVEL DIAGRAM

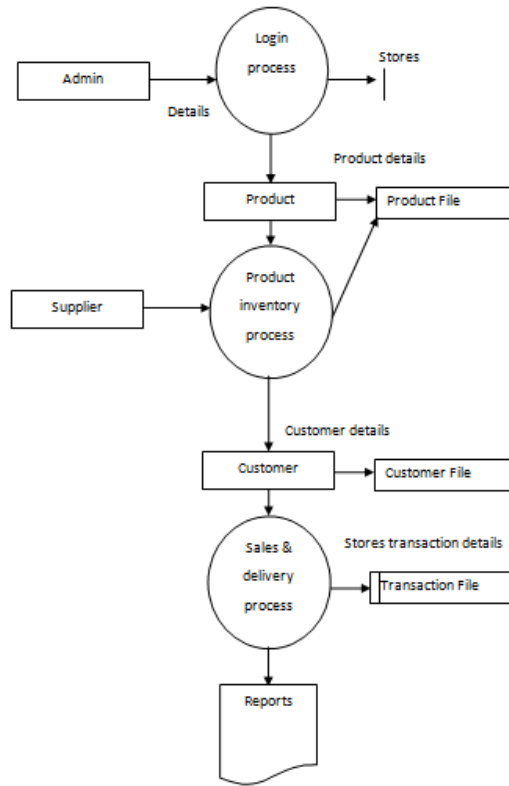
LEVEL 0:



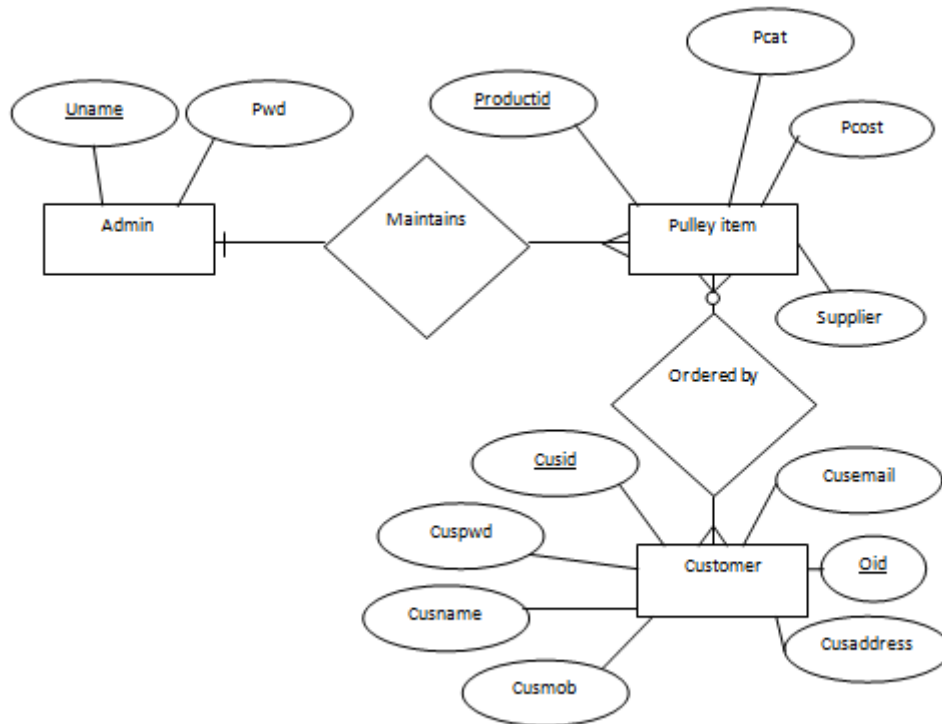
LEVEL 1:



**LEVEL 2:**



**ER DIAGRAM :**



#### IV. SYSTEM SPECIFICATION

##### HARDWARE REQUIRMENTS

Hard Disk	: 1 TB
Keyboard	: 110 Keys
Monitor	: Sony 16 inch
Mother Board	: Sony
Mouse	: Lenovo Mouse
Processor	: Dual Core
RAM Capacity	: 8 GB
Speed	: 1GHZ
System bus	: 64 bit

##### SOFTWARE REQUIRMENTS

Operating System	: Windows 11
Framework Used	: Flask
Front End	: Python
Backend	: SQLite

#### V. IMPLEMENTATION & TESTING

##### SYSTEM IMPLEMENTATION:

Implementation is the process that actually yields the lowest-level system elements in the system hierarchy (system breakdown structure). The system elements are made, bought, or reused. Production involves the hardware fabrication processes of forming, removing, joining, and finishing; or the software realization processes of coding and testing; or the operational procedures development processes for operators' roles. If implementation involves a production process, a manufacturing system which uses the established technical and management processes may be required

##### TESTING

- Unit testing
- Integration testing
- Validation testing
- System testing

##### DESIGN PROCESS:

Database design and its uses are as follows. Database is designed with 5 tables. Each table has primary key as well as some table has foreign key.

##### INPUT DESIGN

In the input design, user's inputs will be given to the system through keyboard. For getting inputs from the user, forms will be designed in the project. When the user enters details through keyboard, the input will be transferred to the system in computer understandable binary digital format. First input form, which will be designed in the project, is welcome page. In welcome page, system will display the options which can be chosen by the user.

##### OUTPUT DESIGN

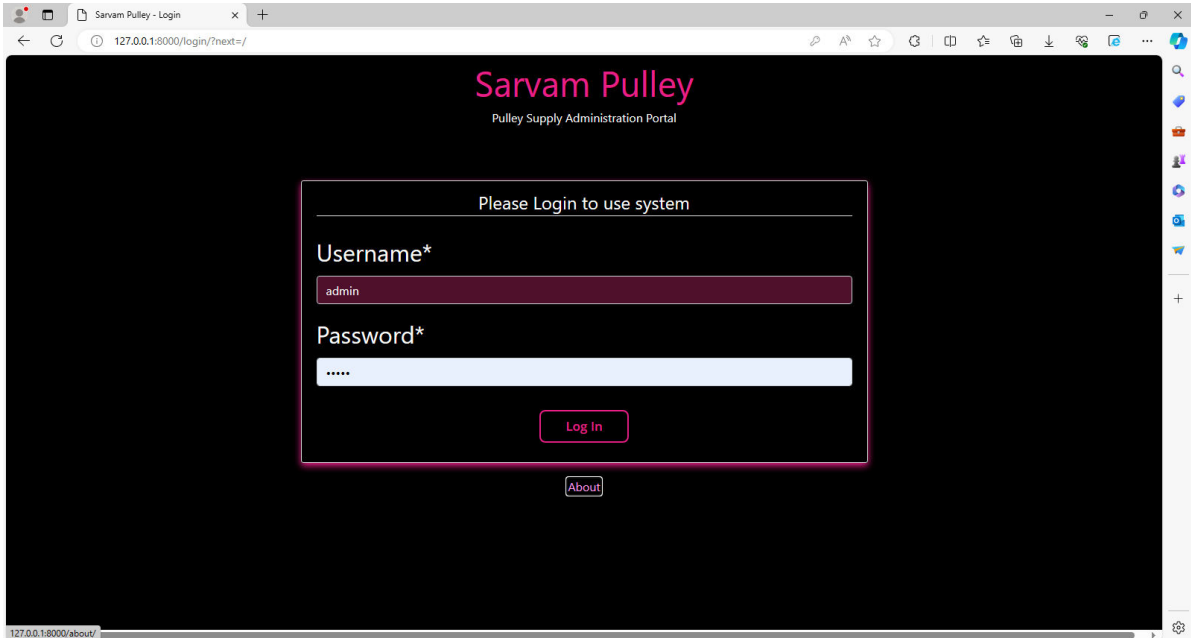
Outputs from computer systems are required primarily to communicate the results of processing to users. They are also used to provide a permanent copy of the results for later consultation. In the next stage it is to be decided that which medium is the most appropriate for the output. As the outputs are the most important source of information to the user, better design should improve the system's relation and also should help in decision-making

##### FUTURE ENHANCEMENT

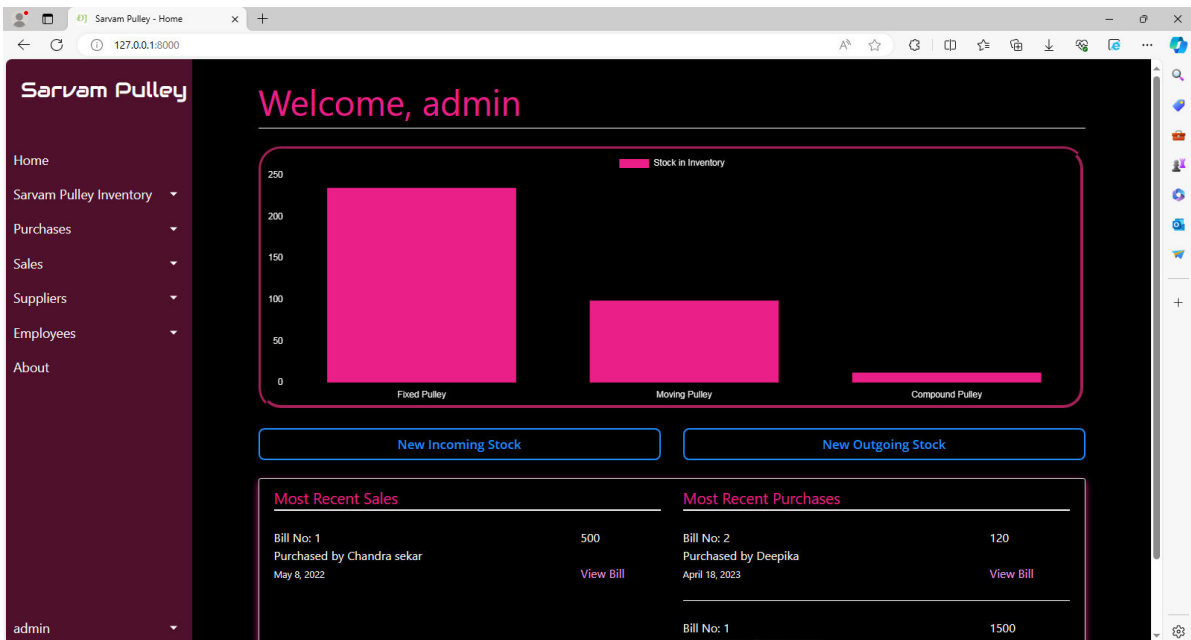
Further expansion of the system also can be done in future if needed. The application can be enhanced in the future with the needs of the organization. The database and the information can be updated to the latest forthcoming versions. Thus the system can be altered in accordance with the future requirements and advancements. System performance evaluation must be monitored not only to determine whether or not they perform as plan but also to determine if they should have to meet changes in the information needed for the company.

### VI. SCREENSHOTS

Login page



Home page



### VII. CONCLUSION

Customers of this system can search for a pulley manufacturing material item; can purchase a pulley manufacturing material item easily by selecting fast. The project deals with real life shortcomings related to business issues in pulley manufacturing material item shops. It is necessary for those people who are wanted to ask questions about the different pulley manufacturing material items with respect to subject names or author names which is far better than current Wishlist pulley manufacturing material item price comparison websites. On the other hand the stock of pulley





manufacturing material items can be maintained perfectly by the pulley manufacturing material item shop manager overcoming the drawbacks of existing system. The main objectives of this project are to maintain the pulley manufacturing material item store and to sale the pulley manufacturing material items to the customer. Tables are designed with primary keys and foreign keys in order to establish relationship between tables. Project has been completed and tested with various testing methods.

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