Database Management System

CSE-314

Submitted For

Bachelor in Science (Engg.)

In Computer Science and Engineering

At

North East University Bangladesh

Submitted By:

Team Member-01:
Sujoy Das Arnab
ID:0562220005101036
Session: Summer-22

Team Member-02:
Srabonti Suchi Talukdar
ID:0562220005101037
Session: Summer-22

Submitted To:

Razorshi Prozzwal Talukder
Lecturer of NEUB,
Department of CSE

Project Name:
Inventory Management System(IMS)

Project Proposal: Inventory Management System (IMS)

Project Details:
The Inventory Management System (IMS) aims to streamline and optimize the process of managing inventory for businesses. The system will include the following key features:

Login Form:
- Users will be required to authenticate themselves through a login form to access the system. Authentication will ensure security and access control.

Dashboard:
- Upon successful login, users will be presented with a comprehensive dashboard displaying relevant information such as inventory status, sales analytics, pending purchase orders, and more. The dashboard will serve as a centralized hub for managing inventory-related tasks.
  - Admin Dashboard: Displays an overview including total users, categories, products, sales analytics, highest selling products, latest sales, and recently added products.
  - **Special User Dashboard:** Limited access with notifications indicating restricted permissions.
  - User Dashboard: Access restricted to product and media options only.

User Management:
- Administrators will have the ability to manage user accounts, assign roles and permissions, and track user activity within the system.
  - Manage Groups: View, create, edit, and delete user groups with attributes like group name, group level, and status.
  - Manage Users: View, create, edit, and delete users with details such as name, username, user role, status, and last login.

Categories:
- Admins can manage product categories:
  - Add New Category: Allows addition of new product categories.
  - All Categories: Displays existing categories with options to edit or delete.

Products:
- Users will be able to add, edit, and delete products from the inventory. Each product entry will include details such as name, description, quantity, price, and supplier information.
  - Manage Products: Provides a table view with columns for product details (ID, photo, title, category, stock, buying price, selling price, date added) and actions (edit, delete).
  - Add Product: Form to add new products with fields for title, category, photo upload, quantity, buying price, and selling price.

Media Files:
- Admins can manage media files:
  - All Photos:** Lists uploaded photos with options to view, delete, or upload new photos.

Sales:
- Admins can manage sales records:

- Manage Sales: Displays a table of all sales including product name, quantity, total amount, and date with options to edit or delete.
- Add Sale: Form to create new sales entries with fields for product selection, quantity, price, and date.

Reports:
- The system will generate detailed reports on various aspects of inventory management, including product inventory, supplier performance, purchase orders, and user activity. These reports will provide valuable insights for decision-making and strategic planning.
- Sales Report: Provides comprehensive reports on sales.
  - Sales by Dates: Generate reports based on specified date ranges.
  - Monthly Sales: View sales performance for each month.
  - Daily Sales: Track daily sales figures.

Settings:
- Users can update their profiles:
- Profile Update: Allows users to change their name, password, and profile photo.
- Logout: Secure logout option to end the session.

Technology Used:
The Inventory Management System will be developed using the following technologies:
- Frontend:** HTML, CSS, JavaScript, jQuery
- Backend:** PHP
- Database:** MySQL

These technologies are widely used, reliable, and well-supported, ensuring the development of a robust and scalable system.

Database Name:
The database for the Inventory Management System will be named "inventory_management_db".

Conclusion:
The Inventory Management System (IMS) will leverage modern web technologies to ensure robust functionality, scalability, and a user-friendly interface for effective inventory management. It aims to enhance operational efficiency, provide insightful analytics, and facilitate seamless user interaction.