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| SYSTEM TITLE | **Invex: Sales and Inventory Management System** |
| Proponents: | Adrian Villasis, Nathaniel Nazareno |
| Tools Used: | Visual Studio for IDE and XAMPP for local web server environment. |
| Technology: | C# , MySQL and .NET Framework |
| System Users: | Business Owners, Inventory Managers, Cashier |
| Subs Systems | **Admin Subsystem**   * User Management * Reporting   **Cashier Subsystem**   * Order Management * Payment Process   **Inventory Manager Subsystem**   * Inventory Management * Supplier Profile * Inventory Report |
| Project Objectives: | * To provide an efficient Point of Sale (POS) system to handle sales operation. * To enable the creation and updating of inventory records to ensure accurate tracking of stock levels and product details. * To provide reports for sales and inventory for business analysis. * To manage users accounts and assign specific roles such as cashier or inventory manager to ensure operational efficiency. |
| Project Description: | Business owners require insights into sales and inventory to make informed decisions and evaluate financial performance. Inventory managers need efficient tools to monitor stock levels, manage product records, and ensure optimal inventory through timely updates. Cashier staff benefit from a streamlined system for processing sales transactions and accessing product details, enabling them to deliver a seamless and enhanced customer experience. The system improves overall efficiency for employees and organizations, leading to better decision making, increased profitability and enhanced customer satisfaction.  For the IDE the developers used Visual Studio for the IDE the programming language used for the backend is C#, for front end the developers utilize windows forms app and lastly the database is MySQL.  The technologies utilize for the development of “Invex: Sales and Inventory Management system”, Visual Studio for its fit development environment, C# for a basic back end logic, Windows Forms for an easily creation of UI and MySQL for efficient and easy data management, which aligns with the project requirements S.M.A.R.T , Specific, Measurable, Achievable, Relevant, and Time-Bound. |
| Prototype (Frontend) | The Login Form allows users to log in to the application.    The Admin Dashboard Form where the data can be viewed.    The Inventory Form can be accessed by the Admin and the Inventory Manager, allowing them to add, update, or edit the status of a product, as well as remove products from the inventory.    The Admin User Management Form allows the Admin to create new employee accounts, update information, and manage employee account statuses.    The Supplier Form allows the Admin and Inventory manager to create supplier information, as well as update or remove supplier.    The Report Form allows the Admin to view the system's sales and inventory reports.    The Invex POS Form allows the Cashier Employee to take orders, process sales transactions, and manage customer purchases.    The User Profile Form can be accessed by the Inventory Manager and Cashier, allowing them to view their profile, change their password, and deactivate their account. |
| Prototype (Backend) | The backend prototype was not included in the documentation due to its length and complexity. No APIs were used in the development of the system. All functionalities were implemented using internal logic and processes. |