

Introduction

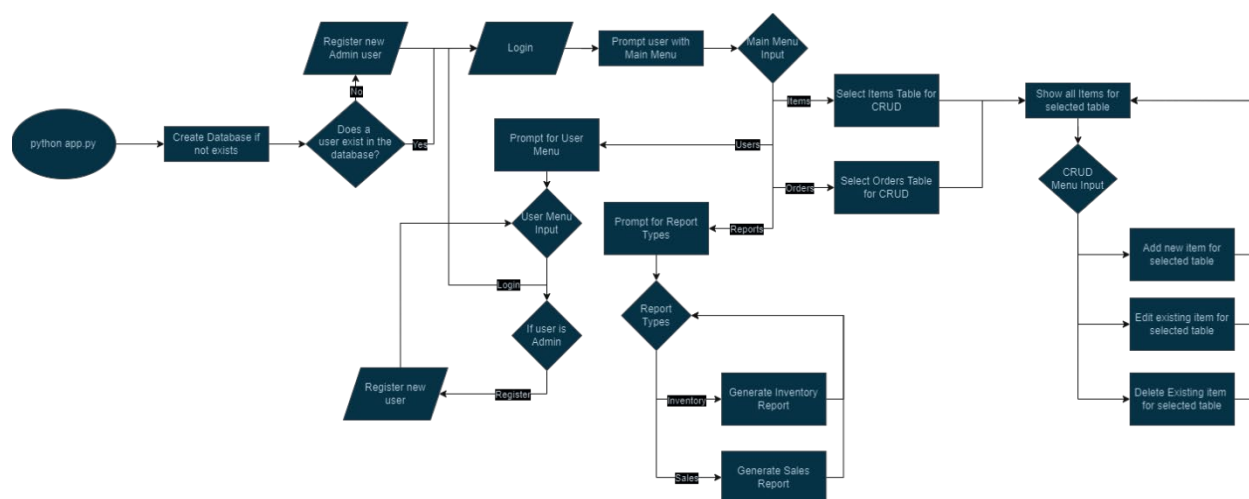
Inventory management systems (IMS) are designed to keep track of inventory for a large-scale electronics warehouse. It provides real-time tracking, automatic inventory updates and comprehensive reporting capabilities to help businesses optimize inventory levels and reduce operating costs. The software is targeted at large-sized businesses that need a powerful solution to effectively manage inventory.

Setup

For the setup of this application, you need to download Python onto the system where this software will be deployed on.

To setup the application, extract the ZIP file provided with this documentation and open a command prompt within the extracted folder. Run the command “`python -m venv venv`” in that directory and wait for the command to finish. Once it is done, if you are using a windows machine, run the command “`.\venv\Scripts\activate.bat`” or if you are using MacOS / Linux, run the command “`source ./venv/bin/activate`”. Once this is done, run the command “`pip install -r requirements.txt`” to install the required dependencies for python.

Flowchart



Use Cases

- Keep track of current inventory stock
 - Inputs: Item name, quantity, supplier details, warranty information
 - Outputs: Updated stock information according to new orders
- Report Generation
 - Inputs: Order status and details
 - Outputs: Stock level reports and low stock alerts

Conclusion

IMS is a reliable and efficient inventory management tool. It reduces manual work and minimizes errors in inventory management. System performance is optimized for real-time operations, ensuring users receive accurate inventory information at all times.