

Task List – Pet Shop Inventory Control System

manager

1. **Login as Manager**
 - Allows logging into the system as a manager.
 - Verifies username and password (case-insensitive).
 - If no account exists, it allows creating one and saves the credentials in a TXT file under the `/utils` folder.
2. **Add Employee**
 - Creates a new employee profile with username and password.
 - Stores the data in a TXT file inside `/utils/registeremployee`.
 - Enables employees to log in later with their registered credentials.
3. **Add Product**
 - Registers a new product with name, price, and initial stock quantity.
 - If the product already exists, **adds the entered quantity to the existing stock**.
 - Displays the updated total stock after adding.
 - Products are stored in a JSON file.
4. **Show Inventory**
 - Displays all registered products in the system.
 - Shows name, price, and available stock quantity.
 - If a product has **less than 4 units**, it displays a warning: *“Low stock product”*.
5. **Modify Inventory**
 - Allows **searching a product by category or name**.
 - Loads product data from the JSON file.
 - Enables editing product information such as name, price, or stock quantity.
 - Automatically saves changes to the JSON file.
6. **Generate Report**
 - Generates a general summary of the inventory.
 - Displays the total number of products, best-selling items, and low-stock alerts.
 - Data can be exported to a TXT file or displayed directly in the console.
7. **Exit**
 - Closes the manager session and returns to the main menu.
 - Automatically saves all inventory changes before exiting.

Employee

1. **Login as Employee**
 - Allows logging into the system as an employee using username and password.
 - Credentials are read from the `/utils/registeremployee` folder.
2. **Add Product**
 - Same as the manager’s option — allows adding new products or increasing the existing stock.
3. **Show Inventory**

- Displays all available products in the inventory.
 - Shows product name, price, and stock quantity.
 - If a product has less than 4 units, shows a low-stock warning.
4. **Sell Product (Create Invoice)**
- Allows selling registered products.
 - Displays the current stock before confirming the sale.
 - If there is not enough stock, shows: *"Product not available"*.
 - If there are fewer than 4 items after selling, displays a *"Low stock"* alert.
 - Generates an invoice (Invoice) and saves it automatically in JSON or TXT format.
5. **Search Product (Filter)**
- Allows searching for products by name or category.
 - Displays complete product data: ID, name, price, and stock.
 - Useful for quick client inquiries or stock control.
6. **Generate Report**
- Displays a summarized view of the inventory accessible for employees.
 - Employees can only view the report — not modify product data.
7. **Exit**
- Closes the employee session and returns to the main menu.