

Electronics management

Vision

“Electronics management” is a web-application that allows users to record and edit information about clients, products and orders.

Application should provide:

- Storing buy orders, clients and products in a database;
- Display list of orders;
- Updating the list of orders (adding, editing, removing);
- Display list of clients;
- Updating the list of clients (adding, editing, removing);
- Display list of products;
- Updating the list of products (adding, editing, removing);
- Display number of the orders for clients and products;
- Filtering by date for orders and clients;
- Filtering by price for products

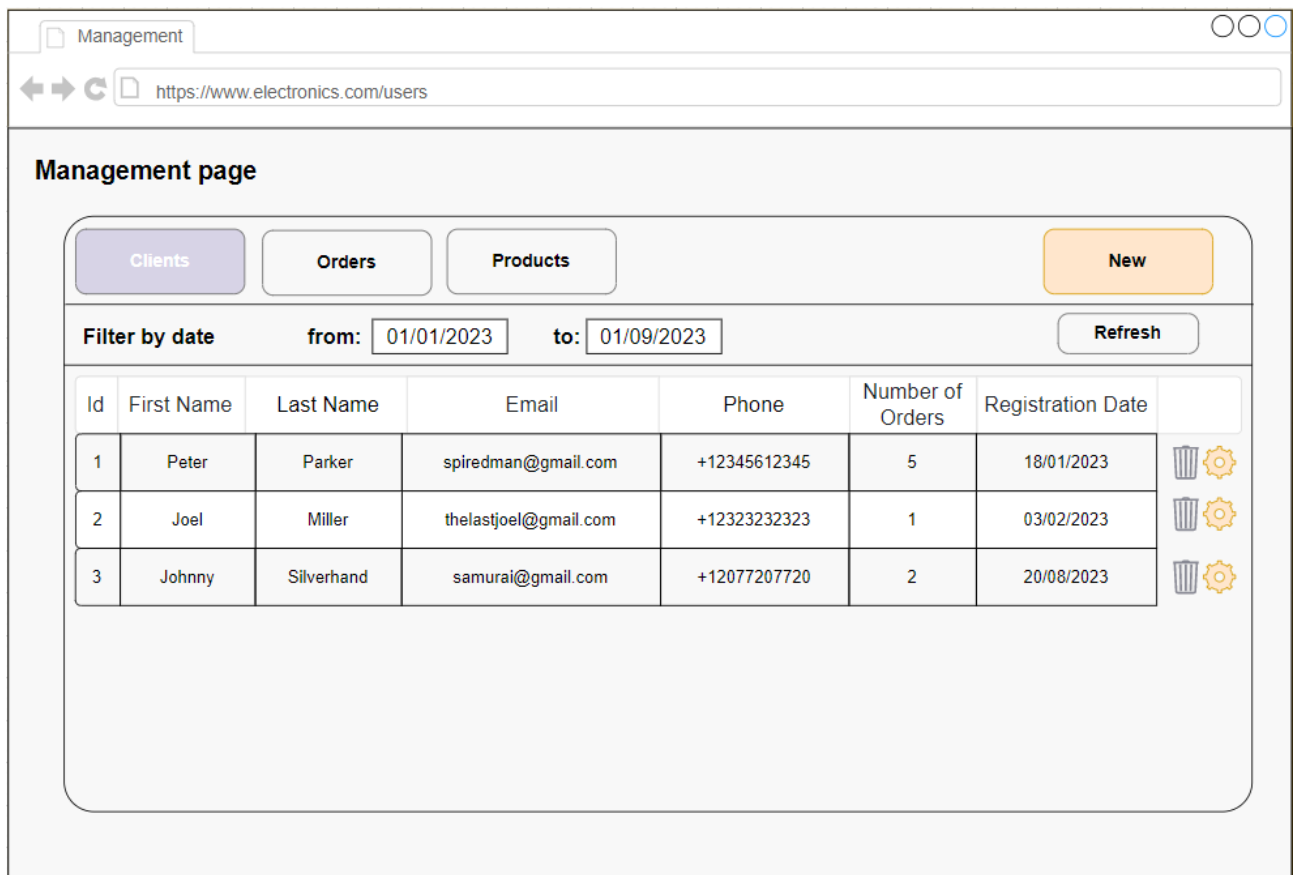
1. Clients

1.1 Display list of clients

The mode is designed to view the list of orders, if it possible to display the number of clients registered for a specified period of time.

Main scenario:

- User selects in menu “Clients”;
- Application displays list of Orders.



Pic. 1.1. The Clients list view.

The list displays:

- Id – the unique number of client
- First name – client`s first name
- Last name – client`s Last name
- Email
- Phone
- Number of orders – amount of orders client made this year
- Registration date – date of creation of account

Filtering by date:

- In the view mode users selects start and end date for filtering and presses the refresh button on the right side;

- The applications displays refreshed list of data in chosen time period.

1.2. Add client

Main scenario:

- User clicks the “New” button in the clients list view mode;
- Application displays form to enter client information;
- User enters order data and presses “Save” button;
- The date of user adding sets automatically;
- If any data is entered incorrectly, incorrect data messages are displayed;
- If entered data is valid, then record is adding to database;
- If error occurs, then error message is displaying;
- If new order record is successfully added, then list of orders with added records is displaying.

Cancel operation scenario:

- User clicks the “New” button in the client list view mode;
- Application displays form to enter client data;
- User enters client data and presses “Cancel” button;
- Data don’t save in data base, then list of orders records is displaying to user.
- If the user selects the menu item "Clients", "Orders" or "Products", the data will not be saved to the database and the corresponding form with updated data will be opened.

The screenshot shows a web browser window with the address bar displaying https://www.electronics.com/create_client. The page title is "Management". Below the title, there are three tabs: "Clients" (selected), "Orders", and "Products". The main content area contains a form for adding a new client. The form has the following fields:

- First name: Mike
- Last name: Vasovski
- Email: vasovskimike@gmail.com
- Phone: +380667352604

At the bottom of the form, there are two buttons: "Cancel" and "Save".

Pic 1.2. Add new client

When adding a new user such information entered:

- First name
- Last name
- Email
- Phone

1.3. Edit client

Main scenario:

- User clicks the “Edit” button - the gear picture near certain row in the clients list view mode;
- Application displays form to enter client information;
- User enters order data and presses “Save” button;
- If any data is entered incorrectly, incorrect data messages are displayed;
- If entered data is valid, then record is adding to database;
- If error occurs, then error message is displaying;
- If new order record is successfully added, then list of orders with added records is displaying.

Cancel operation scenario:

- User clicks the “New” button in the client list view mode;
- Application displays form to enter client data;
- User enters client data and presses “Cancel” button;
- Data don’t save in data base, then list of clients records is displaying to user.
- If the user selects the menu item "Clients", "Orders" or "Products", the data will not be saved to the database and the corresponding form with updated data will be opened.

Management

https://www.electronics.com/edit_client

Management page

Clients Orders Products

First name
Mike

Last name
Vasovski

Email
vasovskimike@gmail.com

Phone
+380667352604

Registration
23/05/2023

Cancel Save

Pic 1.3. Edit client

When adding a new user such information entered:

- First name
- Last name
- Email
- Phone
- Registration date

Constraints for data validation:

- First name – maximum length of 40 characters;
- Last name – maximum length of 40 characters;
- Email– maximum length of 80 characters;
- Phone –international number format
- Registration date – order add date in format dd/mm/yyyy.

1.4. Remove the client

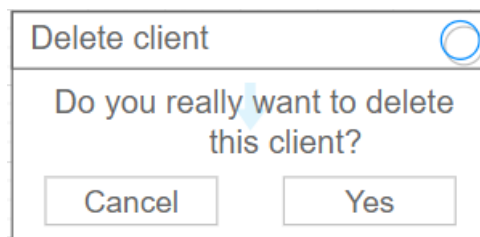
Main scenario:

- The user, while in the list of clients mode, presses the "Delete" button – the thash picture in the selected client line;

- Application displays confirmation dialog “Do you really want to delete this client?”;
- The user confirms the removal of the client;
- Record is deleted from database;
- If error occurs, then error message displays;
- If car record is successfully deleted, then list of cars without deleted records is displaying.

Cancel operation scenario:

- User is in display mode of clients list and press “Delete” button;
- Application displays confirmation dialog “ Do you really want to delete this client?”;
- User press “Cancel” button;
- List of cars without changes is displaying.



Pic. 1.4. Delete user

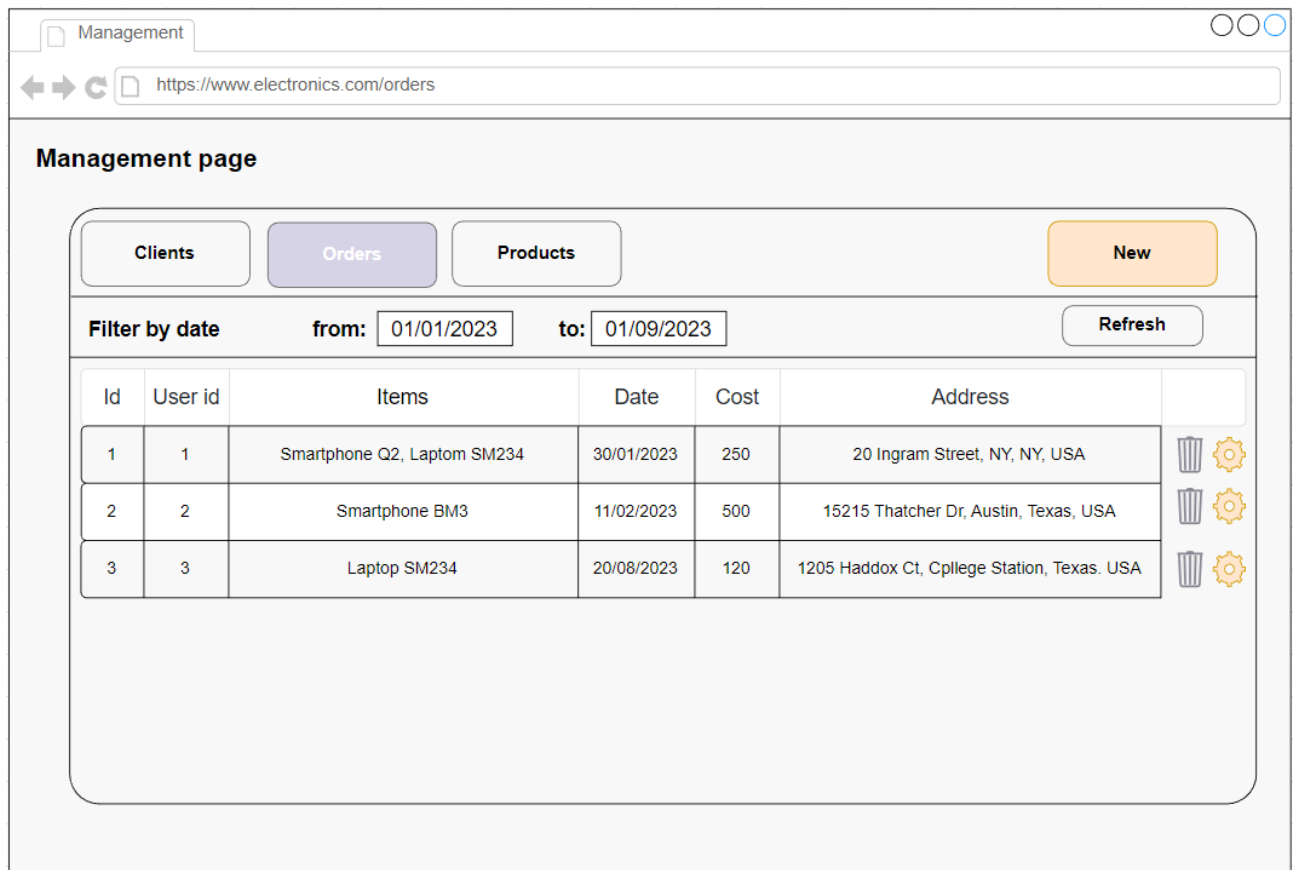
2. Orders

2.1 Display list of orders

The mode is designed to view the list of orders, if it possible to display the number of orders created for a specified period of time.

Main scenario:

- User selects in menu “Orders”;
- Application displays list of Orders.



Pic. 2.1. Orders list view.

The list displays:

- Id – the unique number of the order
- User id – unique number of user, who ordered
- Date – the date of creation
- Cost – total of all products in the order
- Address – delivery address

Filtering by date:

- In the view mode users selects start and end date for filtering and presses the refresh button on the right side;
- The applications displays refreshed list of data in chosen time period.

2.2. Add order

Main scenario:

- User clicks the “New” button in the orders list view mode;
- Application displays form to enter order information;
- User enters order data and presses “Save” button;
- If any data is entered incorrectly, incorrect data messages are displayed;
- If entered data is valid, then record is adding to database;
- If error occurs, then error message is displaying;
- If new order record is successfully added, then list of orders with added records is displaying.

Cancel operation scenario:

- User clicks the “New” button in the order list view mode;
- Application displays form to enter order data;
- User enters order data and presses “Cancel” button;
- Data don’t save in data base, then list of orders records is displaying to user.
- If the user selects the menu item "Clients", "Orders" or "Products", the data will not be saved to the database and the corresponding form with updated data will be opened.

The screenshot shows a web browser window with the address bar displaying https://www.electronics.com/create_order. The page title is "Management". Below the title, there are three tabs: "Clients", "Orders" (which is selected and highlighted in purple), and "Products". The main content area contains a form with the following fields:

- Client name:** Mike Vasovski
- Phone:** +380667352604
- Order:** Laptop SM234, Smartphone Q2
- Address:** 420 Paprk Street, Lyons, Colorado
- Date:** 23/05/2023

At the bottom of the form, there are two buttons: "Cancel" and "Save".

Pic 2.2. Add new order

When adding a new user such information entered:

- Client name
- Phone
- Order - list of ordered items
- Address - delivery destination
- Date - date of the order creation

2.3. Edit order

Main scenario:

- User clicks the “Edit” button - the gear picture near certain row in the orders list view mode;
- Application displays form to enter order information;
- User enters order data and presses “Save” button;
- If any data is entered incorrectly, incorrect data messages are displayed;
- If entered data is valid, then record is adding to database;
- If error occurs, then error message is displaying;
- If new order record is successfully added, then list of orders with added records is displaying.

Cancel operation scenario:

- User clicks the “New” button in the order list view mode;
- Application displays form to enter order data;
- User enters order data and presses “Cancel” button;
- Data don’t save in data base, then list of orders records is displaying to user.
- If the user selects the menu item "Clients", "Orders" or "Products", the data will not be saved to the database and the corresponding form with updated data will be opened.

Management

https://www.electronics.com/edit_order

Management page

Clients Orders Products

Client name
Mike Vasovski

Phone
+380667352604

Order
Laptop SM234, Smartphone Q2

Address
420 Paprk Street, Lyons, Colorado

Date
23/05/2023

Cancel Save

Pic 2.3. Edit order

When adding a new user such information entered:

- Client name;
- Phone;
- Order - list of ordered items;
- Address - delivery destination;
- Date - date of the order creation;

Constraints for data validation:

- Client name – maximum length of 80 characters;
- Phone –international number format;
- Order - list of ordered items, maximum 20 items;
- Address – maximum length of 160 characters;
- Registration date – order add date in format dd/mm/yyyy.

2.3. Remove the client

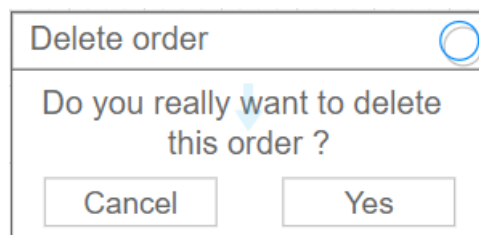
Main scenario:

- The user, while in the list of orders mode, presses the "Delete" button – the trash picture in the selected order line;

- Application displays confirmation dialog “Do you really want to delete this order?”;
- The user confirms the removal of the order;
- Record is deleted from database;
- If error occurs, then error message displays;
- If car record is successfully deleted, then list of cars without deleted records is displaying.

Cancel operation scenario:

- User is in display mode of orders list and press “Delete” button;
- Application displays confirmation dialog “ Do you really want to delete this order?”;
- User press “Cancel” button;
- List of cars without changes is displaying.



Pic 2.4. Delete order.

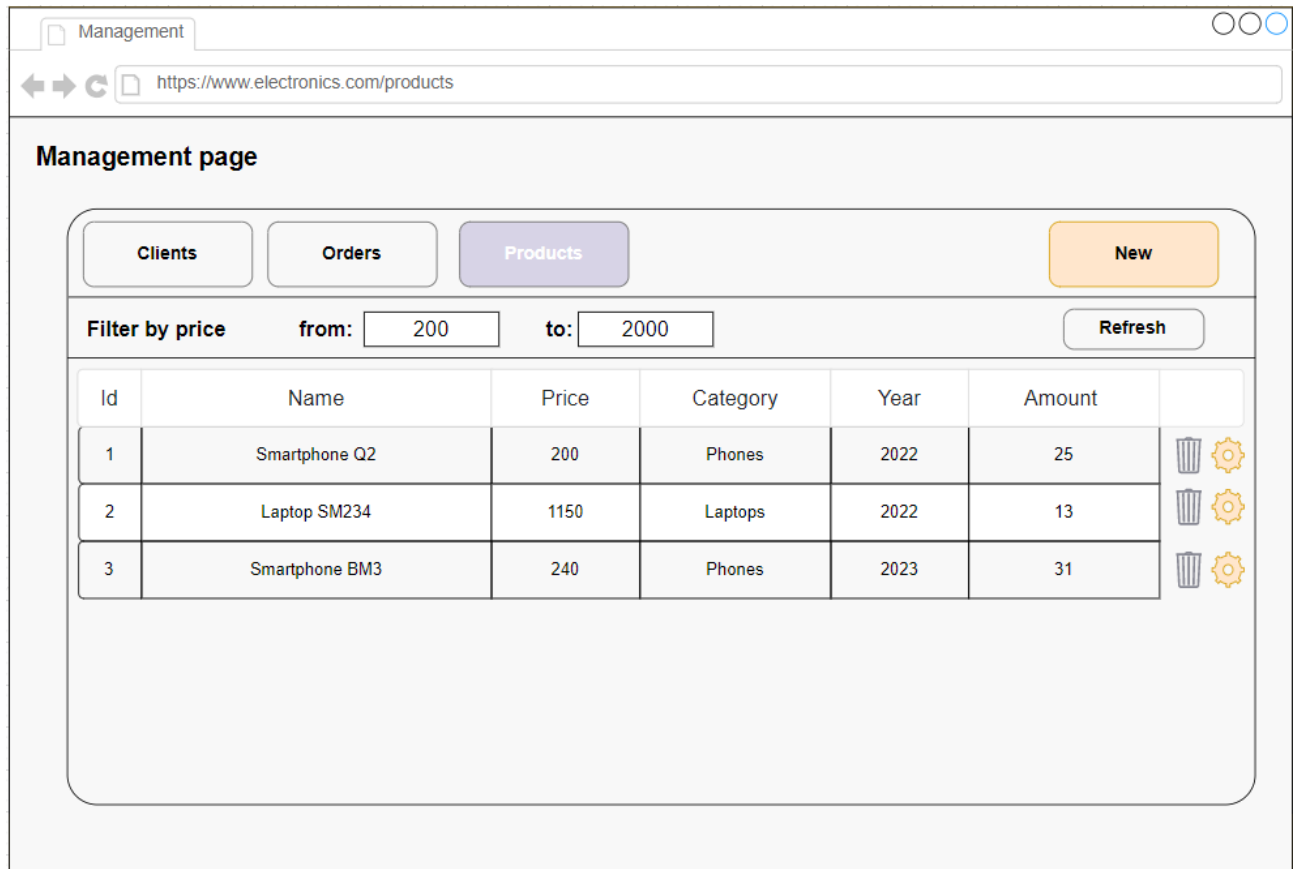
3. Products

3.1 Display list of products

The mode is designed to view and edit the list of products.

Main scenario:

- User selects in menu “Products”;
- Application displays list of Products.



Pic. 3.1. Products list view.

The list displays:

- Id – the unique number of the product
- Name – name of the product
- Price – the price for clients
- Category
- Year – year of release
- Amount – amount available for sale

Filtering by price:

- In the view mode users select minimum and maximum price for filtering and press the refresh button on the right side;
- The application displays refreshed list of data in chosen price range.

3.2. Add product

Main scenario:

- User clicks the “New” button in the products list view mode;
- Application displays form to enter order information;
- User enters order data and presses “Save” button;
- If any data is entered incorrectly, incorrect data messages are displayed;
- If entered data is valid, then record is adding to database;
- If error occurs, then error message is displaying;
- If new order record is successfully added, then list of orders with added records is displaying.

Cancel operation scenario:

- User clicks the “New” button in the product list view mode;
- Application displays form to enter product data;
- User enters order data and presses “Cancel” button;
- Data don’t save in data base, then list of orders records is displaying to user.
- If the user selects the menu item "Clients", "Orders" or "Products", the data will not be saved to the database and the corresponding form with updated data will be opened.

The screenshot shows a web browser window with the address bar displaying https://www.electronics.com/create_product. The page title is "Management page". Below the title, there are three tabs: "Clients", "Orders", and "Products". The "Products" tab is selected. The form contains the following fields and values:

Name	
Smartphone BM3	

Category	
Phones	

Year	
2023	

Price	Amount
240	31

At the bottom of the form, there are two buttons: "Cancel" and "Save".

Pic 3.2. Add new product

When adding a new user such information entered:

- Name of the product
- Category
- Year – year or release
- Price
- Amount – amount available for sale

3.3. Edit product

Main scenario:

- User clicks the “Edit” button - the gear picture near certain row in the product list view mode;
- Application displays form to enter product information;
- User enters order data and presses “Save” button;
- If any data is entered incorrectly, incorrect data messages are displayed;
- If entered data is valid, then record is adding to database;
- If error occurs, then error message is displaying;
- If new order record is successfully added, then list of orders with added records is displaying.

Cancel operation scenario:

- User clicks the “New” button in the product list view mode;
- Application displays form to enter product data;
- User enters order data and presses “Cancel” button;
- Data don’t save in data base, then list of orders records is displaying to user.
- If the user selects the menu item "Clients", "Orders" or "Products", the data will not be saved to the database and the corresponding form with updated data will be opened.

Management

https://www.electronics.com/edit_product

Management page

Clients Orders **Products**

Name
Smartphone BM3

Category
Phones

Year
2023

Price
240

Amount
31

Cancel Save

Pic 3.3. Edit product

When adding a new user such information entered:

- Name of the product
- Category
- Year – year or release
- Price
- Amount – amount available for sale

Constraints for data validation:

- Name of the product – maximum length of 40 characters;
- Category – maximum length of 20 characters;
- Year – year in format yyyy;
- Price in USD, an odd number
- Amount – odd number, less than 10000

2.3. Remove the product

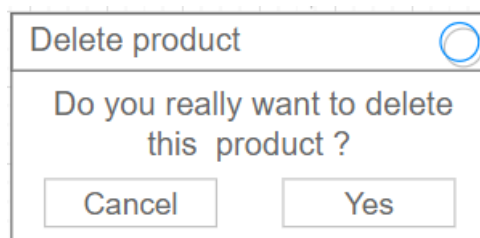
Main scenario:

- The user, while in the list of products mode, presses the "Delete" button – the trash picture in the selected order line;

- Application displays confirmation dialog “Do you really want to delete this product ?”;
- The user confirms the removal of the order;
- Record is deleted from database;
- If error occurs, then error message displays;
- If car record is successfully deleted, then list of cars without deleted records is displaying.

Cancel operation scenario:

- User is in display mode of products list and press “Delete” button;
- Application displays confirmation dialog “ Do you really want to delete this product?”;
- User press “Cancel” button;
- List of cars without changes is displaying.



Pic 3.4. Delete product.