

Railway ticket office

Introduction

A Web application is required for processing train ticket orders. The app must implement the following functions:

- View and edit the train list;
- Search for trains by criteria;
- Buy tickets;
- View the client list and edit it.

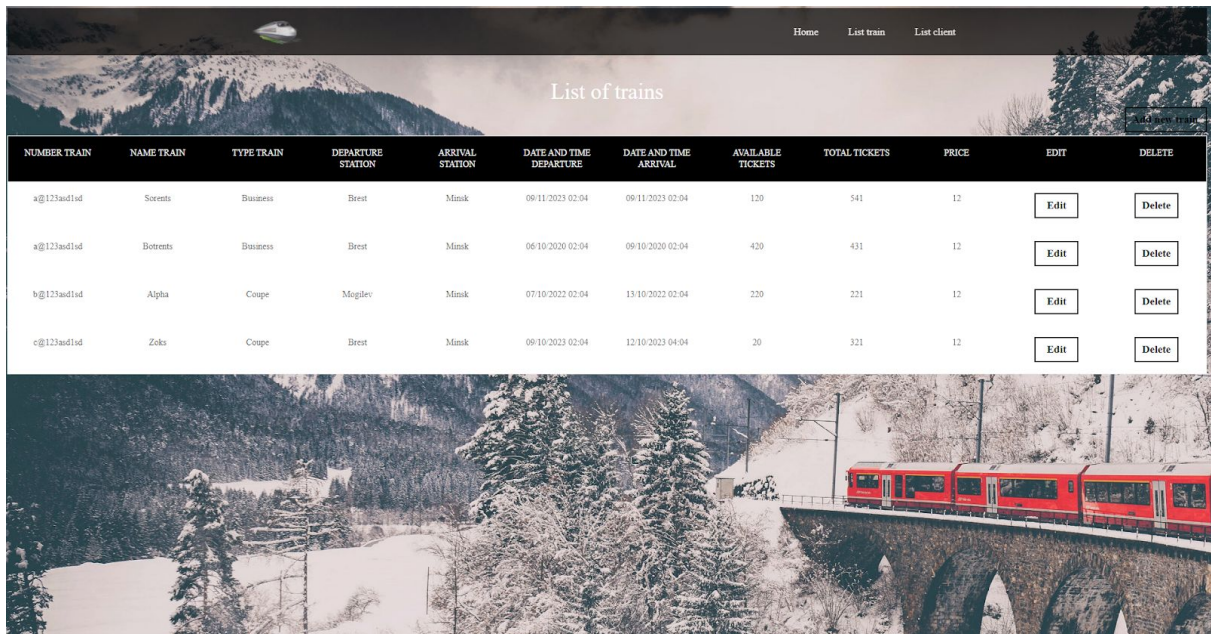
1. Trains

1.1 View a list of trains

This mode of the program is designed for viewing the list of trains, as well as viewing the list of available seats and the list of purchased tickets.

Main scenario:

- The user selects the train menu item;
- A list of all trains is displayed.



Pic. 1.1 View a list of trains

The following columns are displayed in the list:

- Train number;
- name of the train;
- type of train;
- departure station;
- arrival station;
- departure date and time;
- arrival date and time;
- available tickets;
- total tickets;
- price.

1.2 Adding a train

Main scenario:

- The user clicks the "Add new train" button while in train viewing mode;
- The add new train form is displayed;
- The user enters the data and cashes in " Add";
- If the data is entered incorrectly, a warning about incorrect data is displayed;
- If the data is entered correctly, the train is added to the database;
- If the train was saved successfully, the updated page for viewing the list of trains opens.

Scenario for undoing changes:

- The user clicks the " Add " button while in train viewing mode;
- The add new train form is displayed;
- The user clicks "Close";
- No new data is added and the list remains the same.

The screenshot shows a web application interface for managing trains. A modal form titled "Add new train" is centered on the screen, overlaying a table of existing trains. The form contains the following fields: "Name", "Departure station", "Arrival station", "Type train", "Date and time departure", "Date and time arrival", "Total ticket", and "Price". Each of these fields has a dropdown arrow icon on its right side. At the bottom of the form is an "Add" button. The background table has columns: "NUMBER TRAIN", "NAME TRAIN", "TYPE TRAIN", "DEPARTURE STATION", "ARRIVAL STATION", "PRICE", "EDIT", and "DELETE". It contains four rows of data. The background image shows a snowy mountain landscape and a red train crossing a stone bridge.

NUMBER TRAIN	NAME TRAIN	TYPE TRAIN	DEPARTURE STATION	ARRIVAL STATION	PRICE	EDIT	DELETE
a@123asd1s4	Sorents	Business	B	B	12	Edit	Delete
a@123asd1s4	Botrents	Business	B	B	12	Edit	Delete
b@123asd1s4	Alpha	Coupe	Me	B	12	Edit	Delete
c@123asd1s4	Zeks	Coupe	B	B	12	Edit	Delete

Pic. 1.2 Adding a train

When adding a train, enter the following details:

- Name of the train;
- type of train;
- departure station;
- arrival station;
- departure date and time;
- arrival date and time;
- total tickets;
- price.

Restriction for valid data:

- Name with a maximum length of 45 characters;
- Departure date not earlier than the current date.

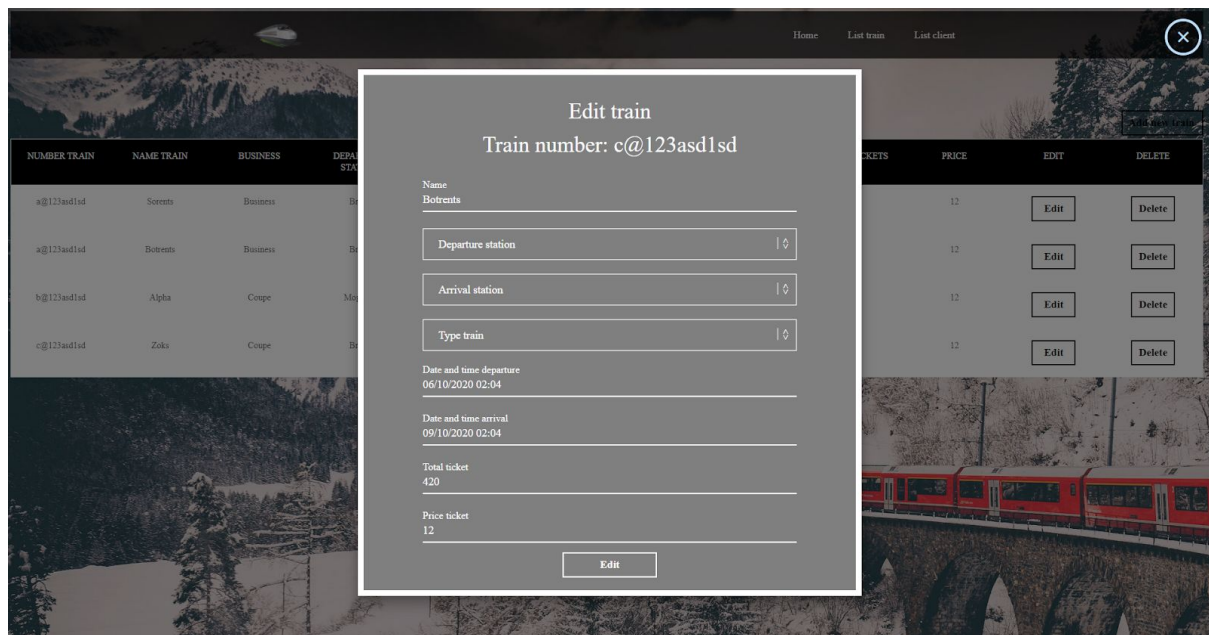
1.3 Edit train

Main scenario:

- The user clicks the "Edit" button while viewing the list of trains in the row of the selected field;
- The edit form is displayed;
- Пользователь изменяет данные и нажимает кнопку "Edit";
- If the data is entered incorrectly, an error warning is displayed;
- If the data is correct, the data is updated in the database;
- If the train data is updated successfully, a page opens with the updated list;

Scenario for undoing changes:

- The user clicks the "Edit" button while in the train viewing mode;
- The add new train form is displayed;
- The user clicks "Close";
- No new data is added and the list remains the same.



Pic. 1.3 Edit information about the train

When you edit information about the train entered the following details:

- Name of the train;
- type of train;
- departure station;
- arrival station;
- departure date and time;
- arrival date and time;
- total tickets;
- price.

Restriction for valid data:

- Name with a maximum length of 45 characters;
- Departure date not earlier than the current date.

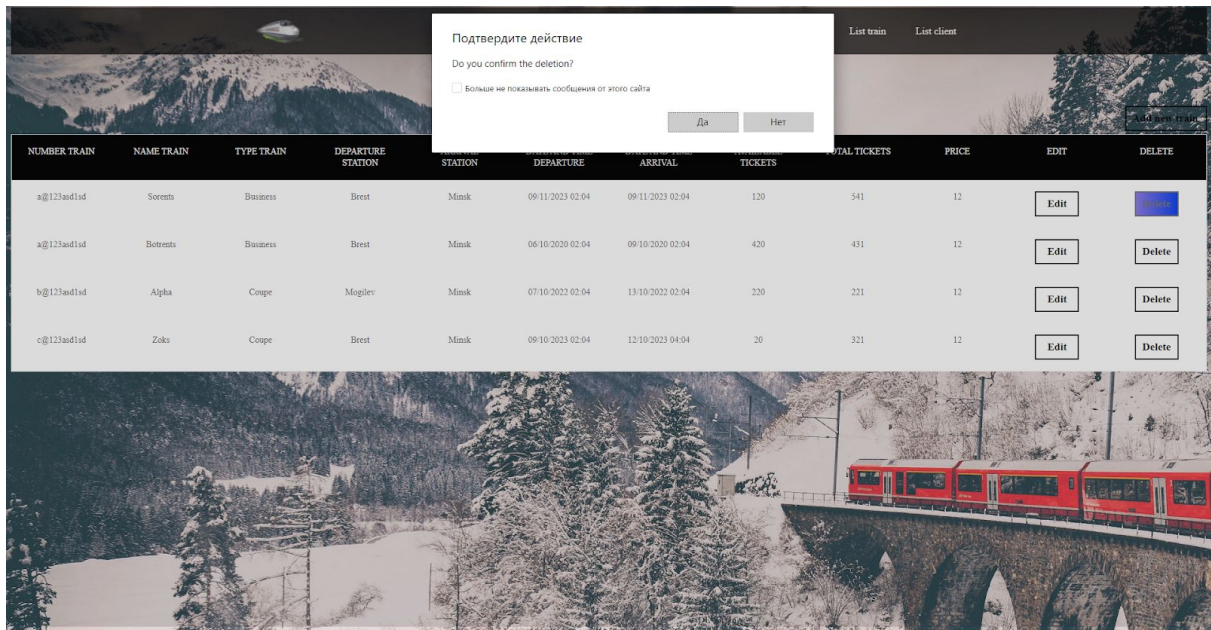
1.4 Delete train

Main scenario:

- The user clicks the "Delete" button in the selected line while viewing the list of trains;
- After that, a confirmation dialog for deletion is displayed: "Do you confirm the deletion?"; the
- User clicks the "Yes" button";
- The role in the database is being deleted;
- If the role is successfully deleted, a page opens with an updated list of trains.

The script cancel the deletion:

- The user clicks the "Delete" button while in the train viewing mode";
- A confirmation dialog is displayed;
- The user clicks "No";
- No new data is added and the list remains the same.

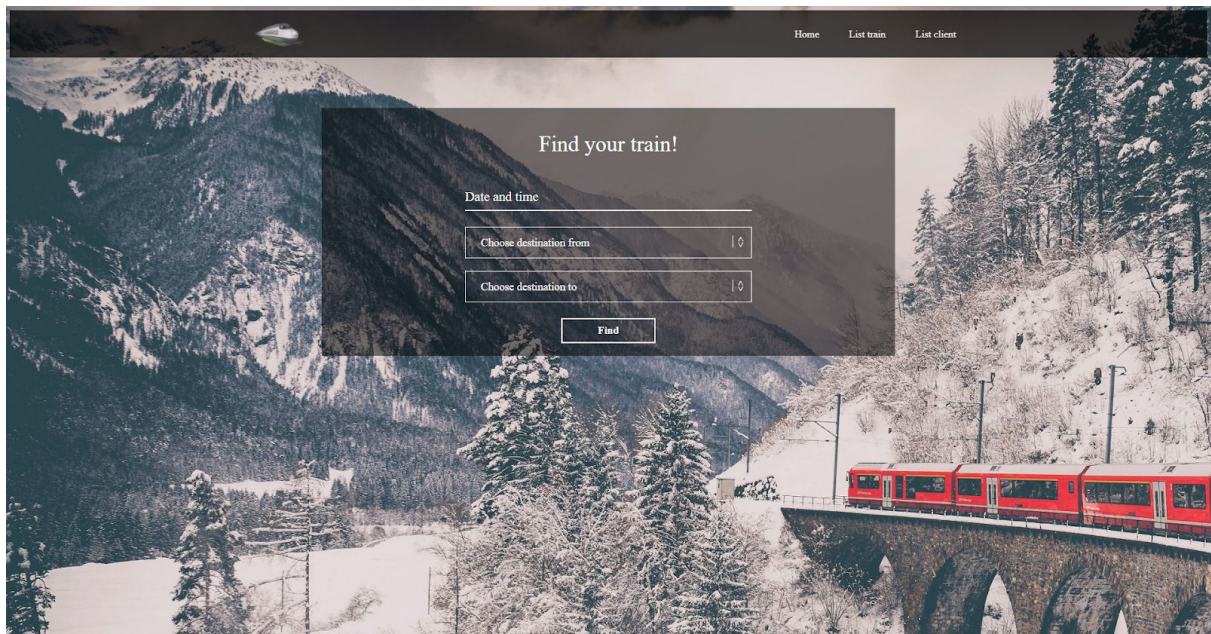


Pic. 1.4 Confirmation of deleting a train

1.5 Search for a train according to criteria

Main scenario:

- The user selects the "Home " menu item";
- Then a page opens with search fields;
- The user enters the data and clicks the "Find" button";
- If the data is entered incorrectly, an error warning is displayed;
- If the data is correct, the user is redirected to a page with a list of found trains according to the necessary criteria.



Pic. 1.5 Search form trains

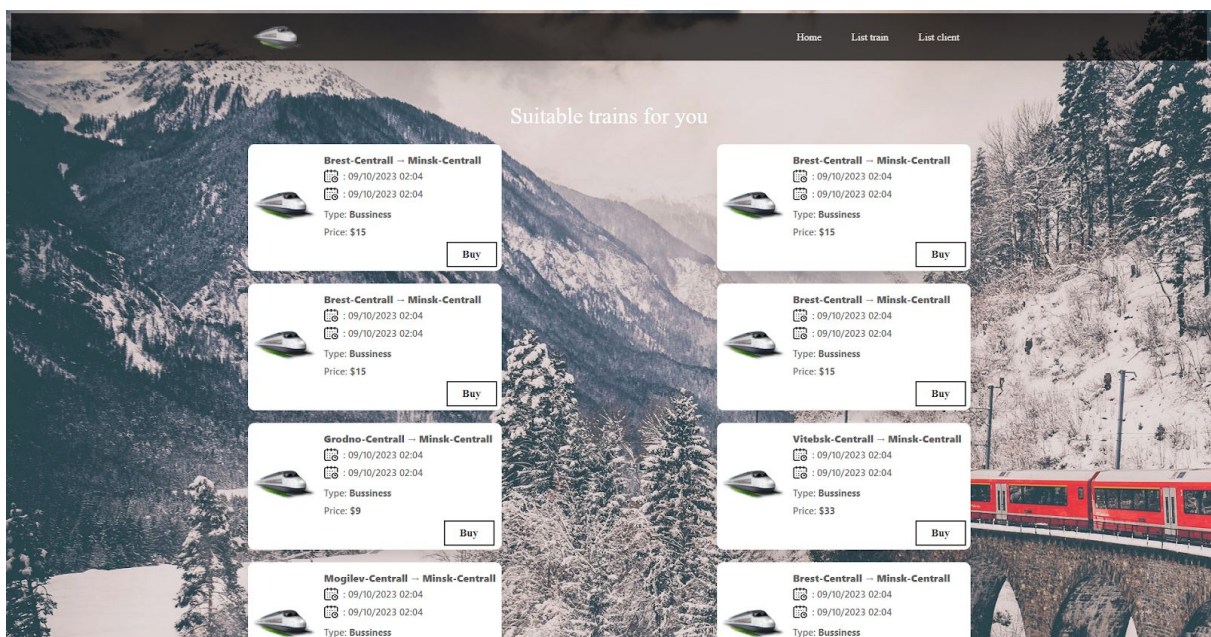


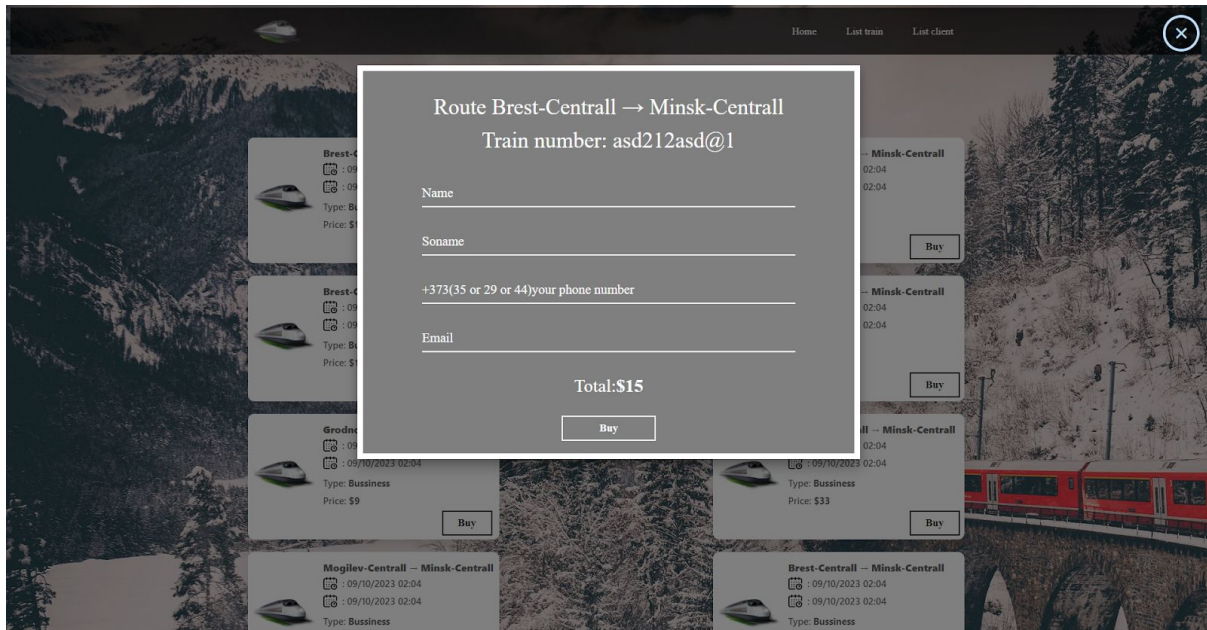
Рис 1.5 Result of search

1.6 Buying a train ticket

Main scenario:

- After finding a train, the user can buy a ticket for it.
- The user clicks the " Buy " button”;
- After that, if tickets are available, the ticket purchase

- form opens;
- After filling in the data, the user clicks the " Buy " button";
- If the data is entered incorrectly, an error warning is displayed
- If the data is entered correctly, the user is added to the database;
- If the data is correct, the user takes it to the main page.



Pic. 1.6 Ticket purchase form

Restrictions for valid data:

- Name - cannot be empty and cannot contain numbers or special characters;
- The last name cannot be empty and cannot contain numbers or special characters;
- Phone number-in a specific format;
- Email - enter data in the email format.

2. Customers

2.1. Viewing the list of clients

This program mode is used for viewing the list of clients.

Main scenario:

- The user selects the "Clients " menu item;
- The page with all clients is displayed.

NUMBER TRAIN	NAME	SONAME	EMAIL	DATE OF PURCHASE	PHONE NUMBER	EDIT	DELETE
a@123asd1sd	Jim	Clind	mail@mail.com	09/11/2023 02:04	+375(44)3321313	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
a@123asd1sd	Kim	Alind	mail@mail.com	09/11/2023 02:04	+375(44)3321313	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
a@123asd1sd	Min	Zind	mail@mail.com	09/11/2023 02:04	+375(44)3321313	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

Pic. 2.1 View a list of all clients

The following columns are displayed in the list:

- Name - client's name;
- Last name - client's last name;
- ID - number of the train for which the ticket was purchased;
- Email - email address;
- Date of purchase date of ticket purchase;
- Phone number - the customer's phone number.

2.2 Edit client

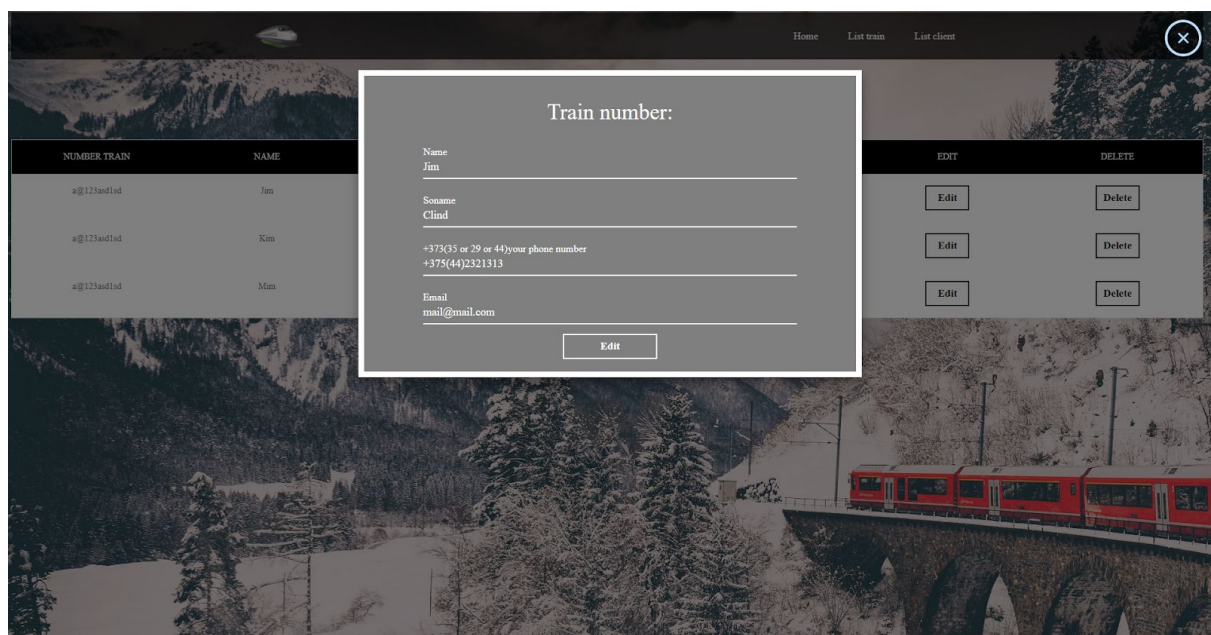
Main scenario:

- The user clicks the "Edit" button while viewing the list of clients" in the row of the selected field;
- The edit form is displayed;
- The user changes the data and clicks the "Save" button";
- If the data is entered incorrectly, an error warning is displayed;
- If the data is correct, the data is updated in the

- database;
- If the train data is updated successfully, a page opens with the updated list.

Scenario for undoing changes:

- The user clicks the "Edit" button while in the train viewing mode";
- The add new train form is displayed;
- The user clicks " Close";
- No new data is added and the list remains the same.



Pic. 2.2 Editing customer information

When you edit the customer information is entered the following details:

- Name - client's name;
- Last name - client's last name;
- Phone number - the customer's phone number;
- Email - the client's email address.

Restriction for valid data:

- Name - cannot be empty and cannot contain numbers or special characters;
- Last name - can't be empty and can't contain numbers or special characters;

- Phone number-contains only numbers and in a specific format;
- Email data must be entered in a specific format.

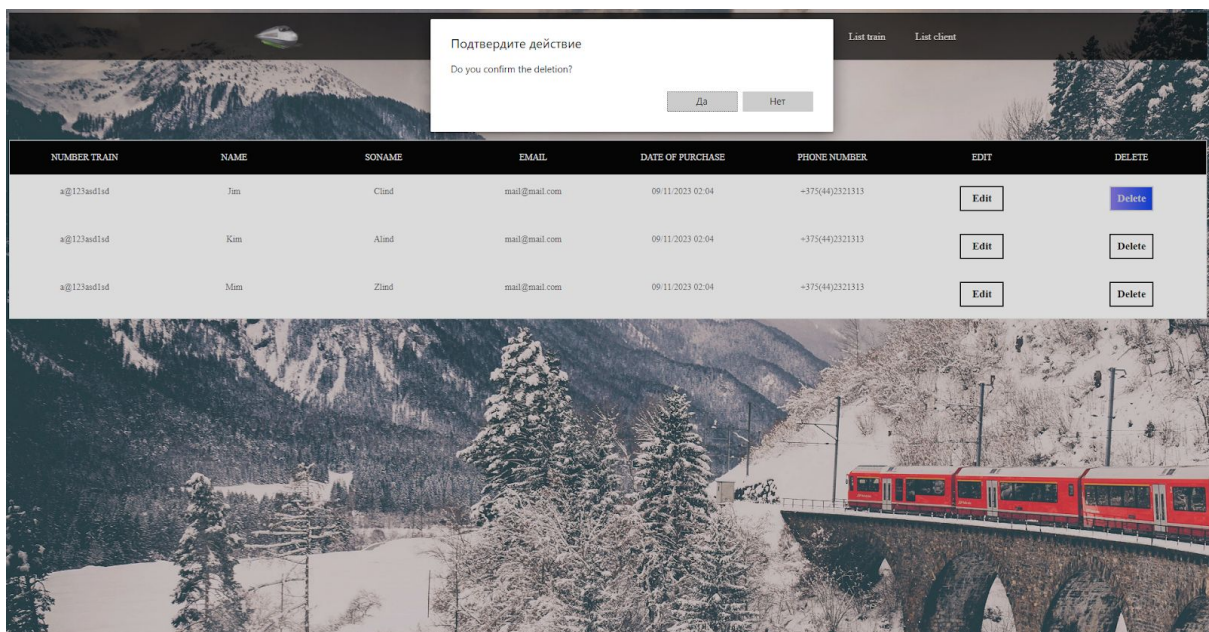
2.3 Delete client

Main scenario:

- The user clicks the "Delete" button in the selected line while viewing the list of trains;
- After that, a confirmation dialog for deletion is displayed: "Do you confirm the deletion?" the
- User clicks the " Yes " button";
- The role in the database is being deleted;
- If the role is successfully deleted, a page opens with an updated list of clients.

The script cancel the deletion:

- The user clicks the button “Do you confirm the deletion?”;
- A confirmation dialog is displayed;
- The user clicks " No”;
- No new data is added and the list remains the same.



Pic. 2.3 Confirm the deletion of the client