# **Car showroom(brands and cars)**

Web application for working with brands, cars and the number of sold during the period.

The application must implement the following functions:

- Display and edit list of brands.
- Display and edit list of cars.
- Display list of cars that were sold in some period.
- Count number of sold during the period.
- Change brand for car.

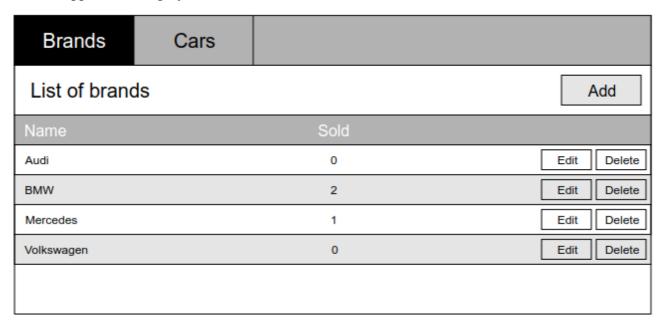
# 1. Brands

# 1.1 Display list of brands

This mode of application displays list of all brands.

#### Main scenario:

- User selects item of menu "Brands".
- Application displays form with list of car brands.



Pict. 1.1 Display brand list.

### Columns in list:

- Name of brand.
- Number of sold cars of each brand.

#### 1.2 Add new brand

### Main scenario:

- User selects item of menu "Brands" and press button "Add".
- Application displays form to enter new brand.
- User enters data and press "Save".
- If entered data is incorrect, application displays warnings and user should to fix mistakes.
- If entered data is correct, then application adds record in database.
- If there is some exception, application opens special window with errors.
- If record is successfully added, then application opens list of brands.

# Scenario of cancellation adding:

- User selects item of menu "Brands" and press button "Add".
- Application displays form to enter new brand.
- User enters data and press "Cancel".
- Data don't save in database and application opens the list of brands.

Brands	Cars			
Adding brand		Cancel	Save	
Name				
Description				

Pict. 1.2 Add brand.

# Input data:

- Name name of brand.
- Description description of brand.

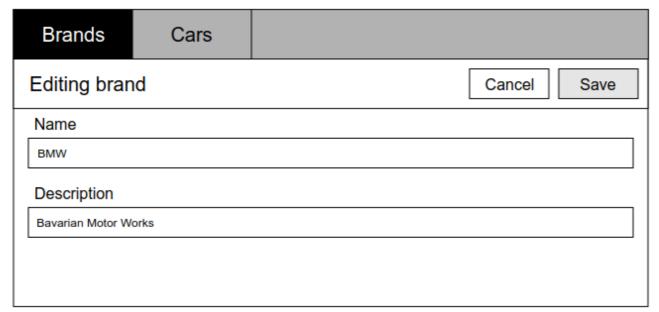
#### 1.3 Edit brand

### Main scenario:

- User selects item of menu "Brands" and press button "Edit".
- Application displays form with information of chosen brand.
- User edits data and press "Save".
- If entered data is incorrect, application displays warnings and user should to fix mistakes.
- If entered data is correct, then application rewrites record in database.
- If there is some exception, application opens special window with errors.
- If record is successfully rewrote, then application opens list of brands.

### Scenario of cancellation adding:

- User selects item of menu "Brands" and press button "Edit".
- Application displays form to enter new brand.
- User enters data and press "Cancel".
- Data don't save in database and application opens the list of brands.



Pict. 1.3 Edit brand.

### Input data:

- Name name of brand.
- Description description of brand.

### Constraints for data validation:

- Name mustn't be empty, maximum length 20 symbols.
- Description mustn't be empty, maximum length 255 symbols.

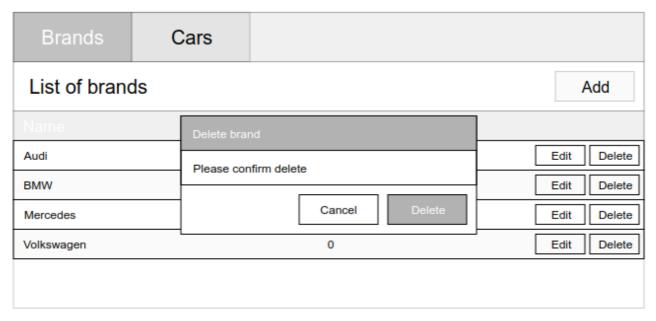
#### 1.4 Delete brand

### Main scenario:

- User selects item of menu "Brands" and press button "Delete".
- Application displays dialog "Delete brand?".
- If there is some car in this brand,the button "Delete" inactive.
- User press "Delete".
- Application delete record in database.
- If there is some exception, application opens special window with errors.
- If record is successfully deleted, then application opens list of brands.

## Scenario of cancellation deleting:

- User selects item of menu "Brands" and press button "Delete".
- Application displays dialog "Delete brand?".
- User press "Cancel".
- Record don't remove from database and application opens the list of brands.



Pict. 1.4 Delete brand.

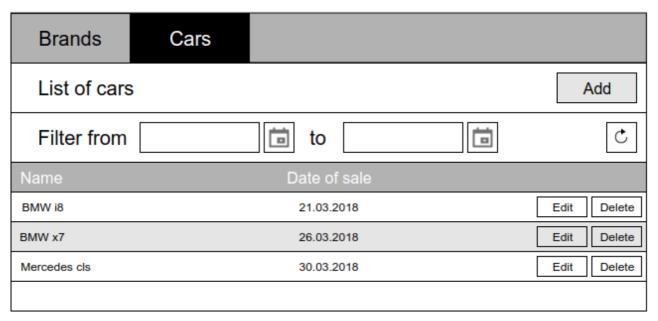
# 1. Cars

# 1.1 Display list of cars

This mode of application displays list of all cars.

#### Main scenario:

- User selects item of menu "Cars".
- Application displays form with list of cars.



Pict. 1.1 Display car list.

### Columns in list:

- Name of car.
- Date of sale each car.

#### Filtration:

To show records of cars, that were sale in some period user can use filtration. User should choose two dates.

- Start date should be less then end date.
- If both date fields are empty, filtration isn't carried out.
- If only end date is empty filtration only by start date.
- Refreshing and displaying data after press button "Refresh".

#### 1.2 Add new car

### Main scenario:

- User selects item of menu "Cars" and press button "Add".
- Application displays form to enter new car.
- User enters data and press "Save".
- If entered data is incorrect, application displays warnings and user should to fix mistakes.
- If entered data is correct, then application adds record in database.
- If there is some exception, application opens special window with errors.
- If record is successfully added, then application opens list of cars.

## Scenario of cancellation adding:

- User selects item of menu "Cars" and press button "Add".
- Application displays form to enter new car.
- User enters data and press "Cancel".
- Data don't save in database and application opens the list of cars.

Brands	Cars				
Adding car	-			Cancel	Save
Name					
Date of sale					
Description					
ĺ					

Pict. 1.2 Add car.

### Input data:

- Name name of car.
- Date of sale car.
- Description description of car.

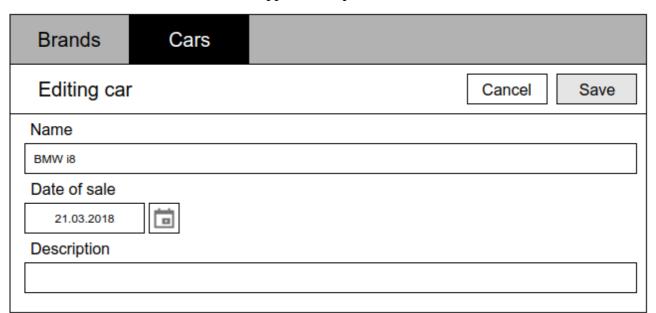
#### 1.3 Edit car

### Main scenario:

- User selects item of menu "Cars" and press button "Edit".
- Application displays form with information of chosen car.
- User edits data and press "Save".
- If entered data is incorrect, application displays warnings and user should to fix mistakes.
- If entered data is correct, then application rewrites record in database.
- If there is some exception, application opens special window with errors.
- If record is successfully rewrote, then application opens list of cars.

### Scenario of cancellation adding:

- User selects item of menu "Cars" and press button "Edit".
- Application displays form to enter new car.
- User enters data and press "Cancel".
- Data don't save in database and application opens the list of cars.



Pict. 1.3 Edit car.

### Input data:

- Name name of car.
- Date of sale car.
- Description description of car.

#### Constraints for data validation:

• Name – mustn't be empty, maximum length 20 symbols.

- Date of sale mustn't by empty, only existing date.
- Description mustn't be empty, maximum length 255 symbols.

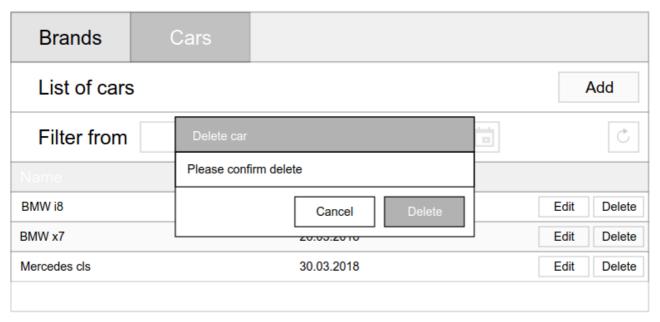
#### 1.4 Delete car

#### Main scenario:

- User selects item of menu "Cars" and press button "Delete".
- Application displays dialog "Delete car?".
- User press "Delete".
- Application delete record in database.
- If there is some exception, application opens special window with errors.
- If record is successfully deleted, then application opens list of cars.

## Scenario of cancellation deleting:

- User selects item of menu "Cars" and press button "Delete".
- Application displays dialog "Delete car?".
- User press "Cancel".
- Record don't remove from database and application opens the list of cars.



Pict. 1.4 Delete car.