

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.

Brands	Cars		
List of brands		Add	
Name	Sold		
Audi	0	Edit	Delete
BMW	2	Edit	Delete
Mercedes	1	Edit	Delete
Volkswagen	0	Edit	Delete

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		<input type="button" value="Cancel"/> <input type="button" value="Save"/>
<p>Name</p> <input type="text"/>		
<p>Description</p> <input type="text"/>		

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.

Brands	Cars	
Editing brand		<input type="button" value="Cancel"/> <input type="button" value="Save"/>
Name <input type="text" value="BMW"/>		
Description <input type="text" value="Bavarian Motor Works"/>		

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.

Brands	Cars	
List of brands		Add
Name		
Audi	Delete brand	Edit Delete
BMW	Please confirm delete	Edit Delete
Mercedes	Cancel Delete	Edit Delete
Volkswagen	0	Edit Delete

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.

Brands	Cars	
List of cars		Add
Filter from	<input type="text"/>	 to <input type="text"/> 
		
Name	Date of sale	
BMW i8	21.03.2018	Edit Delete
BMW x7	26.03.2018	Edit Delete
Mercedes cls	30.03.2018	Edit Delete

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		<input type="button" value="Cancel"/> <input type="button" value="Save"/>
Name <input type="text"/>		
Date of sale <input type="text"/> 		
Description <input type="text"/>		

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.

Brands	Cars	
Editing car		<input type="button" value="Cancel"/> <input type="button" value="Save"/>
Name <input type="text" value="BMW i8"/>		
Date of sale <input type="text" value="21.03.2018"/> <input type="button" value="Calendar"/>		
Description <input type="text"/>		

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 be 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.

Brands	Cars	
List of cars		Add
Filter from		
Name		
BMW i8		Edit Delete
BMW x7		Edit Delete
Mercedes cls	30.03.2018	Edit Delete

Delete car
Please confirm delete
Cancel Delete

Pict. 1.4 Delete car.