Software Requirements Specification

Rental Cars

In this web application you can track and record car rental orders, customer base and car base.

You can:

- See all orders
- Update list of orders (add, delete and edit)
- See all clients
- Update list of clients (add, delete and edit)
- See all cars
- Update list of cars (add, delete and edit)
- Filtering by date for orders and clients
- Filtering by rental cost for cars

In the application we have a menu with buttons where we can choose orders, clients or cars

1. Orders

When you select "Orders" you can see Orders list

Orders list consist:

- Id – number of order
- Car number - unique number of each car
- Client passport number - unique client passport number
- Add date – date of adding an order
- Rental time – amount of days
- Car rental cost – cost of one rental day
- Total cost – rental time * car rental cost

In this window you can add, delete or edit your order

You can also filter orders by date by setting a range. Then, clicking the refresh button will open a filtered list of orders.

To filter, the start date must be less than the end date. The data will be updated only by clicking on the "refresh" button

Add order

Clicking on the add button opens a form in which you enter the data displayed on the screen. Clicking on the button to save your data, if they are entered correctly, is added to the order database and you will reopen the entire list of orders. If the data was entered incorrectly, you will receive a message.

If you click the cancel button, no data will be saved and you will return to the order list

- Client name – client's first and last name;
- Car description – car description;
- Rental time – rental time in days, minimal time is one day;
- Add date – date of adding a rental order.

Edit order

Edit order

| Orders | Clients | Cars |

Enter the id number of the selected order [   ]

Client name: [   ]

Car description: [   ]

Rental time: [   ]

Add date: [дд.мм.pppp 📅]

Save

cancel

Clicking on the edit button opens the same form as in the add application in which you enter the data displayed on the screen. Clicking on the button to save your data, if they are entered correctly, will be updated in the order database and you will reopen the entire list of orders. If the data was entered incorrectly, you will receive a message.

If you click the cancel button, no data will be saved and you will return to the order list.

- Client name – client's first and last name;
- Car description – car description;
- Rental time – rental time in days, minimal time is one day;
- Add date – date of adding a rental order.

Delete order

| Orders | Clients | Cars |

date from: [дд.мм.рррр 📅]   by: [дд.мм.рррр 📅]   [add] ⟳

ID	Car number	Client passp...		Car rental cost	Total cost		
1	BC8742OB	ab2413		80	160	✏	🗑
2	BC8771KK	ac5678		70	70		
3	BC3457HO	ab3421		85	255		
4	BC8734AA	af3553		60	120		
5	BC9812MM	ac4123		75	75		
6	BC9812MM	ab2413	2021-12-01	75	225		

Delete order?

Number of order: [____]

[Yes]

[Cancel]

Clicking the delete button will open a dialog box whether you really want to delete an order. User must enter a number of order which want to delete. Clicking on the button "yes" selected order will be deleted from the order database. If you select the "cancel" button, you will return to the order list.

2. Clients

When you select "Clients" you can see Clients list

| Orders | Clients | Cars |

date from: [дд.мм.рррр 📅]   by: [дд.мм.рррр 📅]   [add] ⟳

First name	Last name	Passport number	Add date	Number of orders		
Ірина	Дмитрасевич	ab2413	2021-11-22	2	✏	🗑
Дмитро	Гнатенко	ac4123	2021-10-20	1		
Ігор	Петриляк	ac5678	2021-11-15	1		
Ольга	Юрків	af3553	2021-09-08	1		
Назар	Сохан	ab3421	2021-10-30	1		

Clients list consist:

- First name – first name of each client
- Last name - last name of each client
- Passport number – unique passport number of client
- Registration date – client's date registration
- Number of orders

In this window you can add, delete or edit clients

You can also filter clients by date by setting a range. Then, clicking the refresh button will open a filtered list of clients.

To filter, the start date must be less than the end date. The data will be updated only by clicking on the "refresh" button

Add client

Clicking on the add button opens a form in which you enter the data displayed on the screen. Clicking on the button to save your data, if they are entered correctly, is added to the clients database and you will reopen the entire list of clients. If the data was entered incorrectly, you will receive a message.

If you click the cancel button, no data will be saved and you will return to the client list

- First name – client's first name;
- Last name – client's last name;
- Passport number – unique client's passport number;
- Add date – date registration.

Edit client

Orders	Clients	Cars

Enter the passport number of the selected client [   ]

First name: [   ]

Last name: [   ]

Passport number: [   ]

Add date: [дд . мм . рррр   📅]

Save

cancel

Clicking on the edit button opens the same form as in the add application in which you enter the data displayed on the screen. Clicking on the button to save your data, if they are entered correctly, will be updated in the clients database and you will reopen the entire list of clients. If the data was entered incorrectly, you will receive a message.

If you click the cancel button, no data will be saved and you will return to the client list.

- Enter the passport number of the selected client
- First name – client's first name;
- Last name – client's last name;
- Passport number – unique client's passport number;
- Add date – date registration.

Delete client

Clients list						
Orders	Clients	Cars				
date from: дд.мм.рррр					add ↻	
First name	**Last name**			**Number of orders**		
Ірина	Дмитрасевич	ab2				✏ 🗑
Дмитро	Гнатенко	ac4				
Ігор	Петриляк	ac5				
Ольга	Юрків	af3553	2021-09-08	1		
Назар	Сохан	ab3421	2021-10-30	1		

Delete client?

Passport number: ☐

Yes

Cancel

Clicking the delete button will open a dialog box whether you really want to delete an client. User must enter a passport number of client which want to delete . Clicking on the button "yes" selected client will be deleted from the clients database. If you select the "cancel" button, you will return to the clients list.

3. Cars

When you select "Cars" you can see Cars list

Cars list					
Orders	Clients	Cars			
rental cost from: ☐ by: ☐				add ↻	
Car description	**Car number**	**Rental cost**	**Number of orders**		
Mercedes	BC9812MM	75	2		✏ 🗑
Renault	BC8771KK	70	1		
Opel	BC8734AA	60	1		
bmw	BC3457HO	85	1		
Audi	BC8742OB	80	1		

Cars list consist:

- Car description – car brand
- Car number – unique car number
- Rental cost – rental cost of car per day
- Numbers of orders – orders amount of each car

In this window you can add, delete or edit your car.

You can also filter cars by rental cost by setting a range. Then, clicking the refresh button will open a filtered list of cars.

To filter, the start cost must be less than the end cost. The data will be updated only by clicking on the "refresh" button.

Add car

Clicking on the add button opens a form in which you enter the data displayed on the screen. Clicking on the button to save your data, if they are entered correctly, is added to the clars database and you will reopen the entire list of cars. If the data was entered incorrectly, you will receive a message.

If you click the cancel button, no data will be saved and you will return to the cars list

- Car description – car's brand;
- Car number – unique car's number;
- Rental cost – rental cost of car per day.

Edit car

Clicking on the edit button opens the same form as in the add application in which you enter the data displayed on the screen. Clicking on the button to save your data, if they are entered correctly, will be updated in the cars database and you will reopen the entire list of cars. If the data was entered incorrectly, you will receive a message.

If you click the cancel button, no data will be saved and you will return to the cars list.

- Enter the car number of the selected car
- Car description – car's brand;
- Car number – unique car's number;
- Rental cost – rental cost of car per day.

Delete car

Clicking the delete button will open a dialog box whether you really want to delete a car. User must enter the car number which want to delete. Clicking on the button "yes" selected car will be deleted from the cars database. If you select the "cancel" button, you will return to the cars list.