

Group: 1

Handover date: 14.02.2023

Code: IS3

Bazy Danych project

“Client task system for car sharing”

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1. Description:

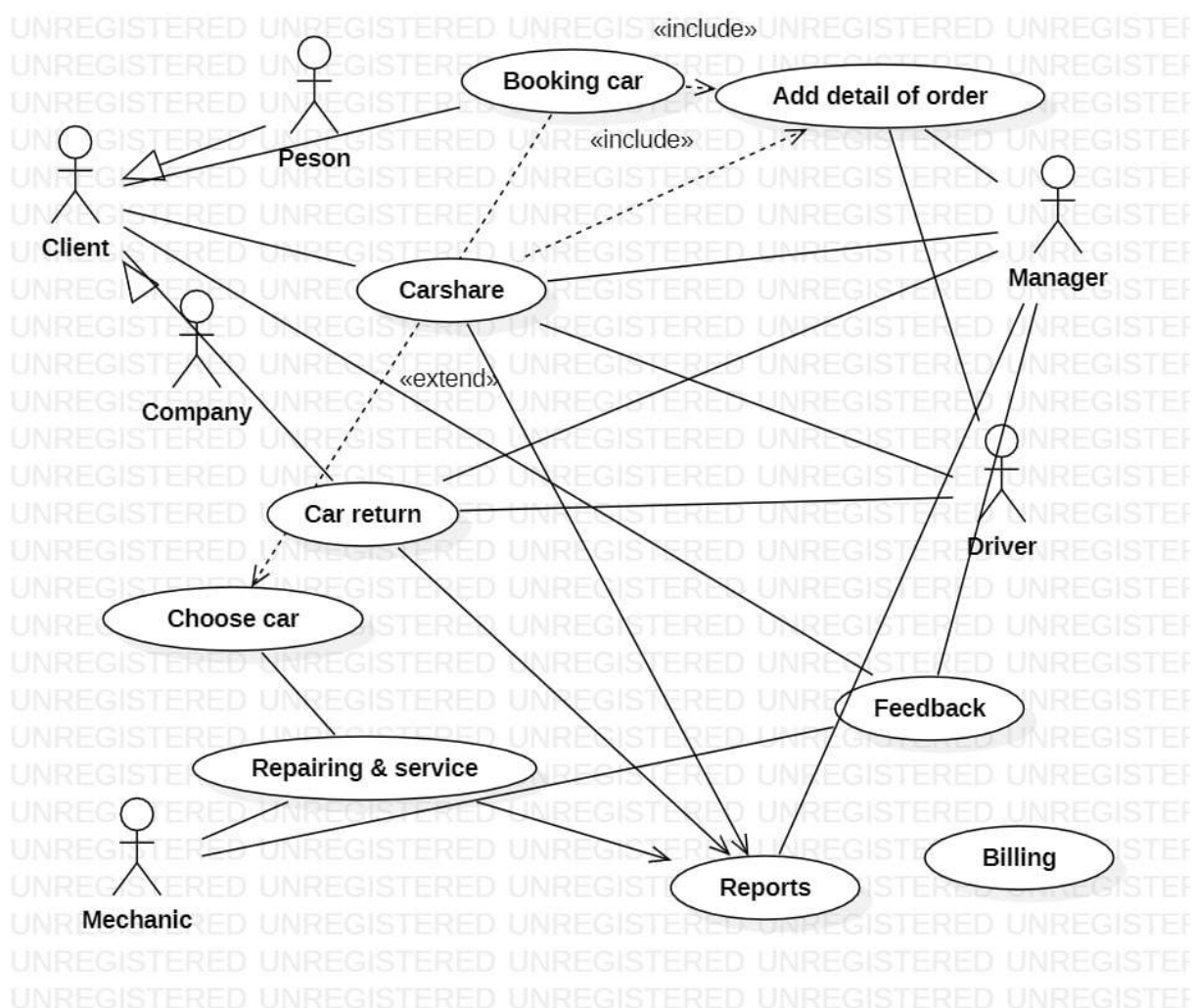
System keeps information about client tasks and cars servicing for car sharing. Main goal is to support car reservation, management repairing tasks and car services.

Main functionality is:

- cars reservation and filter finding
- scheduling of car using
- car service events
- result of car repairing and services
- analysis client response about cars.

System support to interfaces for service tasks and mobile app for users reservation and feedback functionality.

2. Use cases



3. Technology stack:

Frontend: Angular

Backend: Django

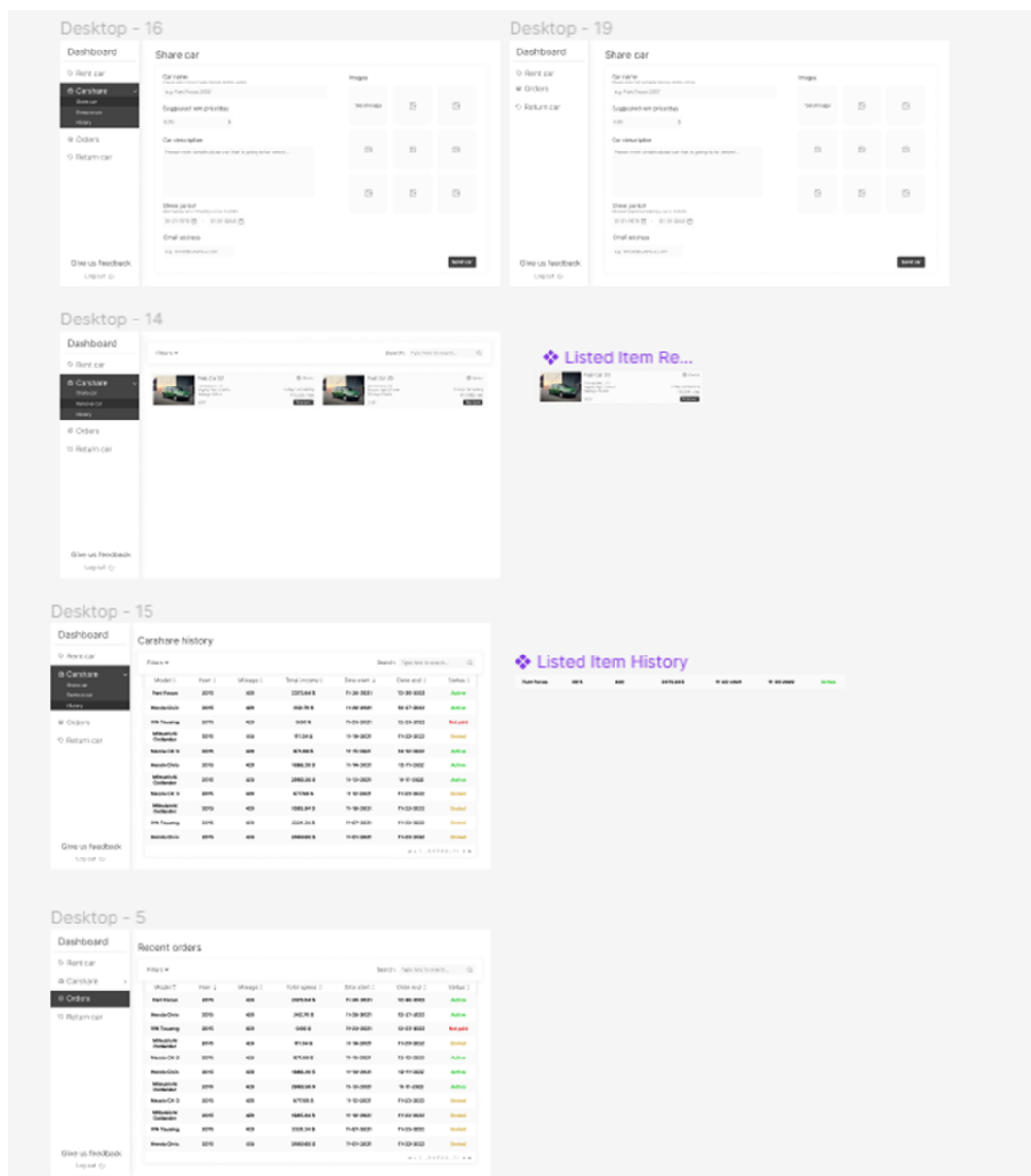
Database: PostgreSQL

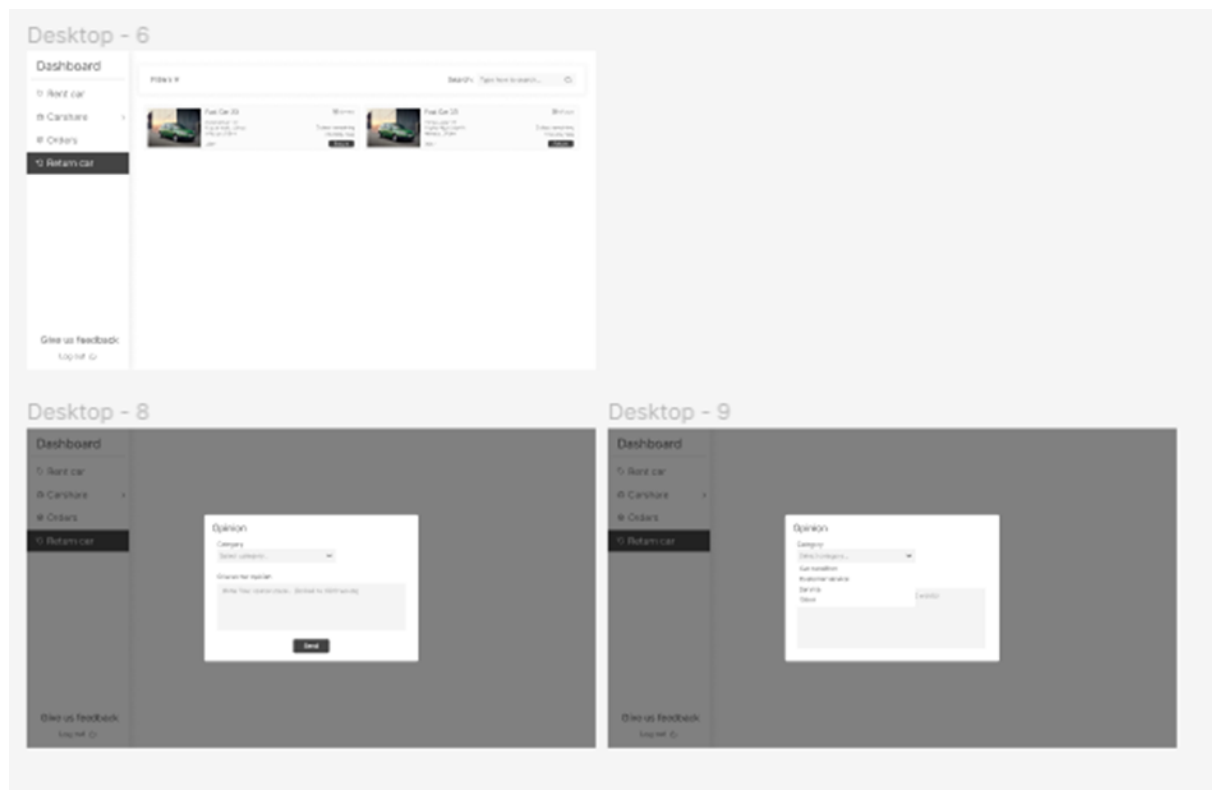
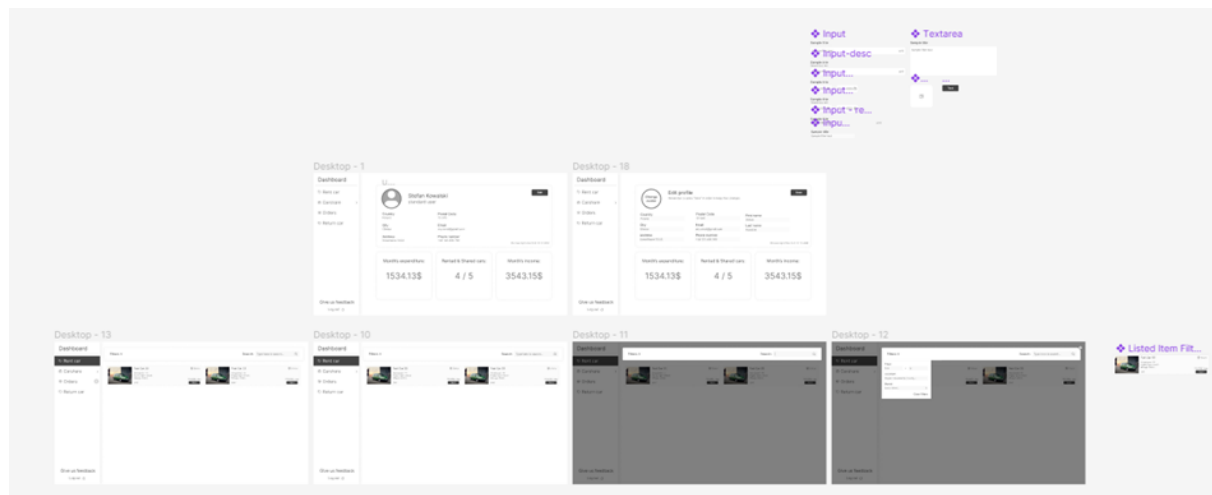
Deployment: Frontend and Backend repositories were connected in a way that the frontend repository had the backend's repository as a submodule. Amazon hosting for full stack application, backend and frontend connected using nginx reverse proxy.

Hosting: Amazon

4. Frontend

Designs were prepared with usage of Figma software then implemented to the Angular project. Setup of Angular project was additionally using Tailwind CSS framework for responsive styles and better template organization. Designs developed for the application:



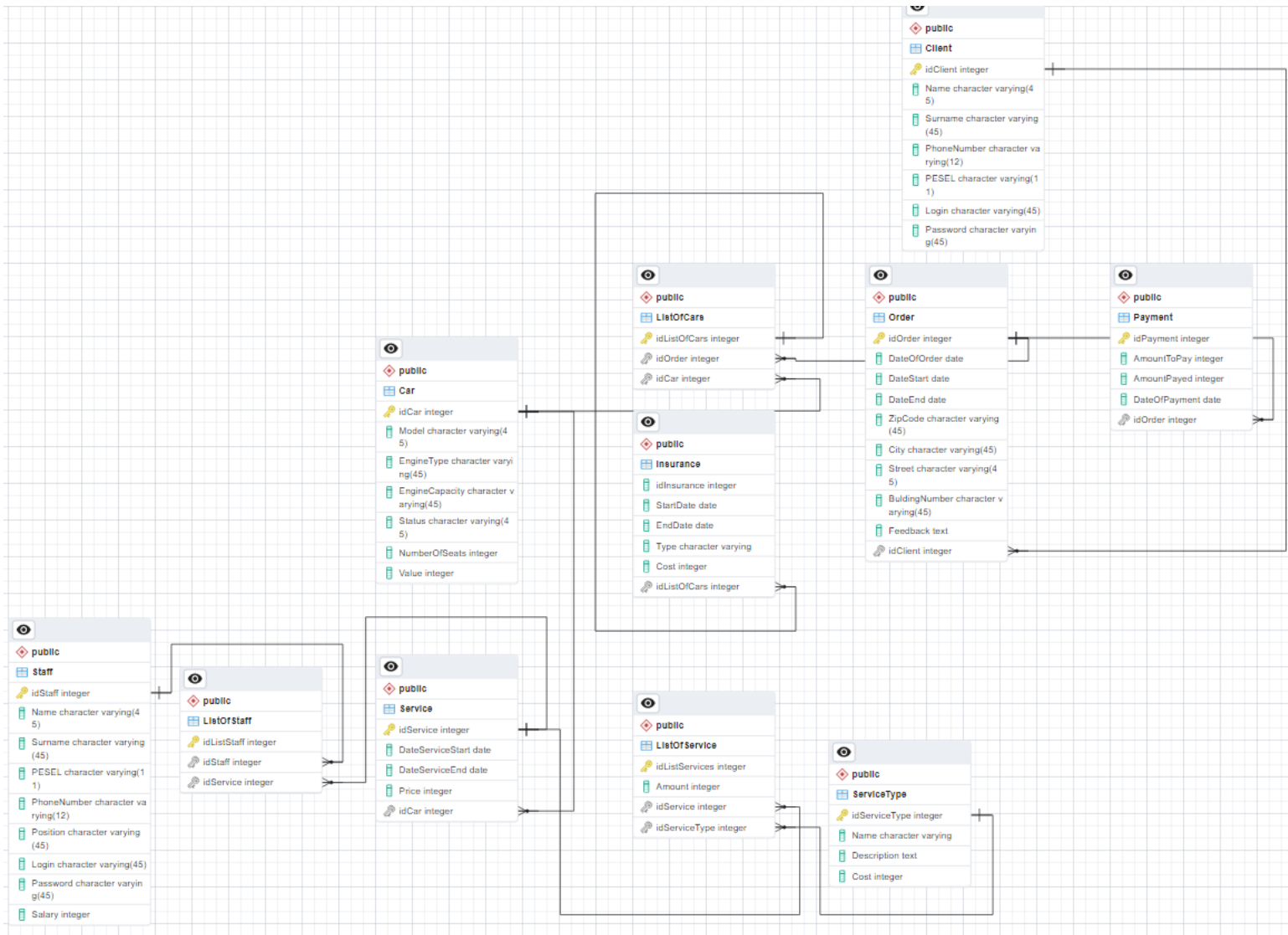


5. Backend endpoints

For most of the methods JWT token needed.

- a. cars/ - GET type request requiring user token to send returns all cars with all their fields from database.
- b. createcar/ - POST request creating Car instance in database requires user token and db values in request body.
- c. deletecar/ - DELETE request requiring id of row that need to be deleted.
- d. user/ - GET request for listing all of the users.
- e. servicetypes/ - GET method for listing types of services
- f. login/ - POST method for obtaining JWT token needed to send other requests. Login and password needed
- g. staff/ - GET method for listing all of the staff.
- h. countorders/ - GET method for listing all of orders.
- i. generatedashboard/ - GET method for generating user dashboard.
- j. clientupdate/ - POST method for updating client data requires user id and user data listed in body of request.
- k. customersorders/ - GET method listing all orders of client. Id of client needed.
- l. rentcar/ - POST method for renting a car. Need all of the information provided except for the date of order which is automated in code.
- m. returncar/ - POST method for returning a car.
- n. sendfeedback - POST method for sharing feedback. Idorder needed to pass.
- o. getuserrented/ - GET method for listing all cars rented by a specific user. User id needed.

6. ERD



7. Reports

Here are some examples of reports which could be useful for managing and browsing data

Report of Car Reservation Scheduling

Generated 13.02.2023

Car Id	Model	Order Id	Date Of Order	Duration (days)
1	Yaris	25	01.01.2022	5
2	Yaris	14	01.01.2022	1
3	Aygo	5	05.03.2022	4
4	Corolla	6	25.03.2022	3

Report of available cars for date 25.02.2023

Generated 13.02.2023

Car Id	Car Name	Is Available	Next Available
1	Yaris	NO	01.03.2023
2	Yaris	NO	26.02.2023
3	Aygo	YES	-
4	Corolla	YES	-

Raport of Car Servicing

Generated 13.02.2023

Car Id	Car Name	Service Id	Service Type	Date of Service Start	Date of Service End
1	Yaris	1	Brake Change	14.02.2023	16.02.2023
1	Yaris	2	Tires Change	01.04.2023	01.04.2023
2	Aygo	2	Tires Change	01.04.2023	01.04.2023
4	Civic	2	Tires Change	01.04.2023	01.04.2023

Raport of user feedback for day

25.01.2023

Generated 13.02.2023

Order ID	Star Number	Description
45	5	Everything Ok.
63	4	Car Was Dirty
78	4	Could be better

