Projekt UAIM EAutoService

Patryk Jankowicz Mikołaj Siedlecki Aleksandra Sitarczyk Jan Walczak

Mapa

Role - przypadki użycia (slajdy: 3,4):

Klient:

- 1. Przeglądanie/kupowanie części samochodowych
- 2. Tworzenie i modyfikacja konta
- 3. Umawianie nowych serwisów
- 4. Sprawdzanie informacji o swoich samochodach i ich historii napraw/przeglądów
- Dodawanie samochodów

Mechanik:

- 1. Przeglądanie i kończenie swoich serwisów
- 2. Wykorzystywanie części samochodowych z magazynu do naprawy
- 3. Przeglądanie samochodów i ich historii
- 4. Przeglądanie informacji o klientach

Pracodawca:

- 1. Dodanie/usuniecie pracownika
- 2. Dodanie nowych części/kategorii/typu

Magazynier:

- 1. Zakup części do magazynu
- 2. Modyfikowanie danych o częściach

Moduły aplikacji klienckich

ClientApplication

- Wyświetlanie informacji o żadanych danych
- Dodawanie/modyfikowanie danych

Mikołaj Siedlecki

MechanicApplication

- Wyświetlanie informacji o żądanych danych
 Dodawanie/modyfikowanie
- Dodawanie/modyfikowanie danych

Aleksandra Sitarczyk

Moduły kontrolerów aplikacji

ClientAppUSvc (slajd: 9)

 Przetwarzanie danych i żądań otrzymanych od aplikacji klienckiej

Patryk Jankowicz

MechanicAppUSvc (slaid: 8)

 Przetwarzanie danych i żądań otrzymanych od aplikacji klienckiej

Jan Walczak

Moduły danych

CarsDataUSvc (slajd: 6)

- Obsługa danych dotyczących samochodów

Jan Walczak

CarPartsDataUSvc (slajd: 7)

 Obsługa danych dotyczących części samochodowych

Mikołaj Siedlecki

ClientsDataUSvc (slajd: 6)

 Obsługa danych dotyczących klientów

Aleksandra Sitarczyk

EmployeesDataUSvc (slajd: 6)

 Obsługa danych dotyczących pracowników

Patryk Jankowicz

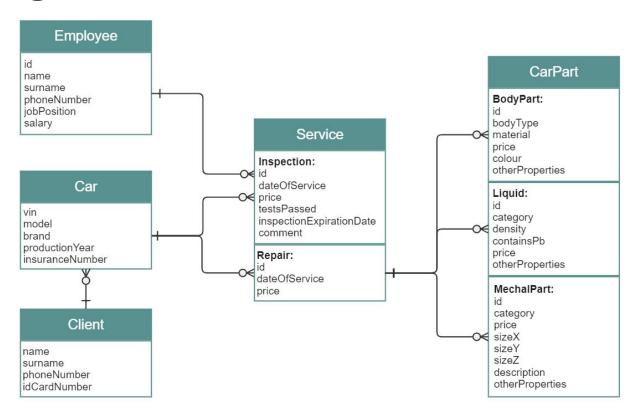
ServicesUSvc (slajd: 7)

 Obsługa danych dotyczących serwisów

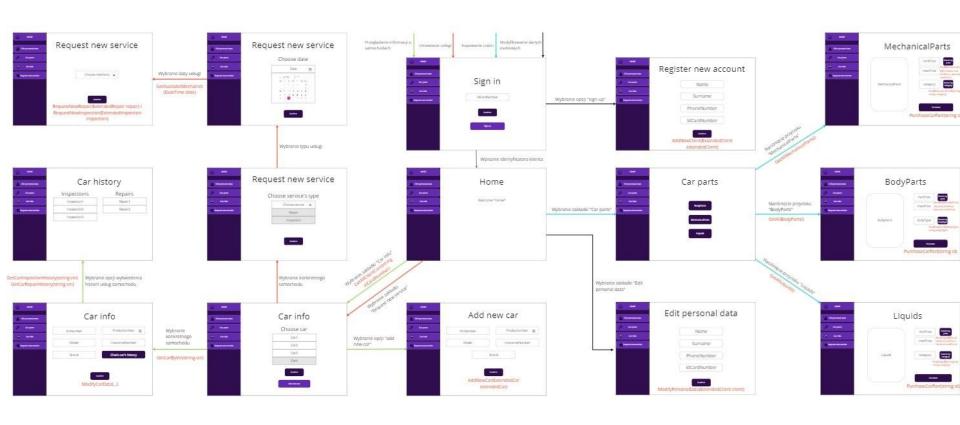
Aleksandra Sitarczyk

^{*} czerwony kolor - elementy, których nie implementujemy w naszym systemie

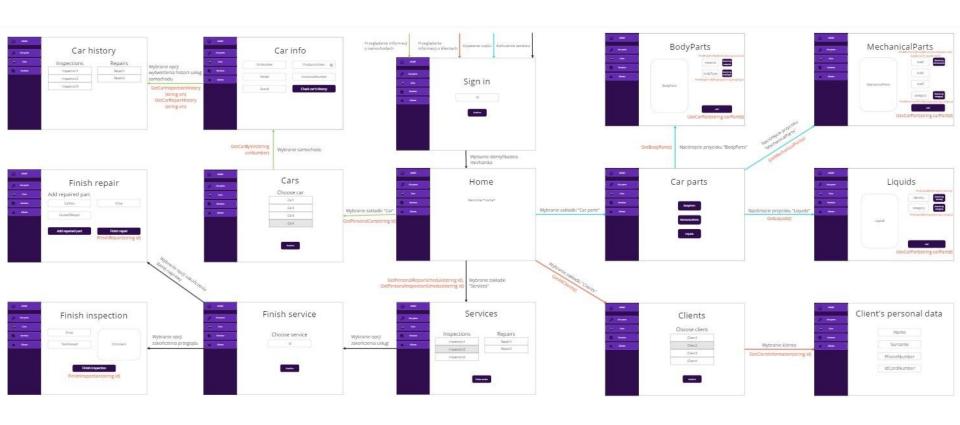
Diagram typów encji



Przypadki użycia - perspektywa klienta



Przypadki użycia - perspektywa mechanika



Ssjw.EAutoService. EmployeesDataUSvc

- List<Employee> GetAllEmployees();
- void AddEmployeeToDB(Employee employee);
- void RemoveEmployeeFromDB(string id);
- Employee GetEmployeeById(string id);
- Employee
 - GetEmployeeNameSurnameSalary(string id);
- Employee
 - **GetEmployeeNameSurnameSalaryServices**(string id);
- List<Employee>
 - **GetAllEmployeesWithSpecifiedPosition**(string iobPosition):
- Employee
 - GetEmployeeSurnamePhoneNumber(string id);
- int GetNumberOfEmployees();
- List<string> **GetEmployeeServices**(string id);
- void **RemoveEmployeeService**(string serviceId);
- void AddServiceToEmployee(string id, string service);

Employee

string: id string: name string: surname string: phoneNumber string: jobPosition string: salary List<string>: services

Ssjw.EAutoService. ClientsDataUSvc

- List<Client> GetAllClients();
- void AddClientToData(Client client);
- void RemoveClientFromData(string idCardNumber);
- Client FindClientByldCard(string idCardNumber);
- Client GetClientsNameSurname(string idCardNumber);
- Client GetClientsSurnamePhoneNumber(string idCardNumber);
- List<string> GetAllIds();

void AddCar(Car car);List<Car> GetCarsRvB

List<Car> GetCarsByBrand(string brand);

Ssjw.EAutoService.

CarsDataUSvc

Car GetCarByVin(string vin);

List<Car> GetAllCars():

- void RemoveCarByVin(string vin);
- void AddServiceToCarHistory(string vin,string serviceId);
- void RemoveServiceFromCarHistory(string vin,string serviceld);

Client

string: name string: surname string: phoneNumber string: idCardNumber List<string>: vinNumbers

Car

string: vin string: model string: brand

DateTime: productionYear string: insuranceNumber List<string>: servicesHistory

Ssjw.EAutoService. CarPartsDataUSvc

CarPart

BodyPart:

string: id string: bodyType string: material decimal: price string:colour int: couter

OtherProperties:

otherProperties

string: id string: category int: density bool: containsPb decimal: price int: counter OtherProperties:

MechalPart:

otherProperties

string: id string: category decimal: price double: sizeX double: sizeY double: sizeZ int: counter string: description OtherProperties: otherProperties

- List<BodyPart> FindBodyPartByBodyType(string bodyType);
- List<BodyPart> FindBodyPartByPrice(decimal minPrice, decimal maxPrice);
- List<BodyPart> FindBodyPartByMaterial(string material);
- void AddBodyPart(BodyPart bodyPart);
- List<BodyPart> GetAllBodyParts();
- List<BodyPart > GetAvailableAndUnavailableBodyParts();
- BodyPart GetBodyPartByld(string id);
- List<Liquid> FindLiquidByCategory(string category);
- List<Liquid> FindLiquidByPrice(decimal minPrice, decimal maxPrice);
- List<Liquid> FindLiquidByDensity(int density);
- void AddLiquid(Liquid liquid);
- List<Liquid> GetAllLiquids();
- List<Liquid> GetAvailableAndUnavailableLiquids();
- Liquid GetLiquidByld(string id);
- List<MechanicalPart> FindMechanicalPartByDimensions(double sizeX, double sizeY, double sizeZ);
- List<MechanicalPart> FindMechanicalPartByPrice(decimal minPrice, decimal maxPrice);
- List<MechanicalPart> FindMechanicalPartByCategory(string category);
 - void AddMechanicalPart(MechanicalPart mechanicalPart);
- List<MechanicalPart> GetAllMechanicalParts();
- List<MechanicalPart> GetAvailableAndUnavailableMechanicalParts();
 - MechanicalPart GetMechanicalPartById(string id);
- void RemoveCarPart(string id);
- void DeleteCarPart(string id);
- int GetNumberOfAvailableParts(string id);
- void ChangeNumberOfAvailableParts(string id, int number);

Ssjw.EAutoService. ServicesDataUSvc

- List<Inspection> **GetInspectionsByVinNumber**(string vinNumber);
- Inspection FindInspectionById(string id);
- void AddInspection(Inspection inspection);
- List<Inspection> GetAllInspections();
- List<Inspection> GetAllByPassedFieldInspections(bool passed);
- void RemoveInspection(string id);
- Inspection GetInspectionEmployeeIdVinNumber(string id);
- List<Repair> GetRepairByVinNumber(string vinNumber);
- Repair FindRepairBvId(string id):
- void AddRepair(Repair repair);
- List<Repair> GetAllRepairs();
- void RemoveRepair(string id);
- List<String> GetServicesByEmployeeId (string employeeId);
- List<RepairedPart> GetRepairedPartsByld(string id);
- Repair GetRepairEmployeeIdVinNumber(string id);
- void CompleteInspection (string id, double price, bool testsPassed, string comment);
- void CompleteRepair (string id, double price, List<RepairedPartDto>
 repairedParts);

Service

Inspection:

string: id DateTime: dateOfService string: employeeld string: vinNumber double: price bool: testsPassed

bool: testsPasse DateTime:

inspectionExpirationDate string: comment

Repair:

string: id Date Time: dateOfService string: employeeId string: vinNumber double: price List<RepairedPart>: repairedParts

Ssjw.EAutoService.MechanicAppUSvc

GetPersonalCars(string id)

- 1. EmployeesDataUSvcClient GetEmployeeByld(string id)
- 2. ServicesDataUSvcClient GetServicesByEmployeeld(string employeeld)
- 3. CarsDataUSvcClient GetCarByVin(string vin)

GetCarByVinNumber(string vinNumber)

1. CarsDataUSvcClient - GetCarByVin(string vin)

GetCarlspectionHistory(string vin)

- 1. CarsDataUSvcClient GetCarByVin(string vin)
- 2. ServicesDataUSvcClient FindInspectionByld(string id)

GetCarRepairHistory(string vin)

- 1. CarsDataUSvcClient GetCarByVin(string vin)
- 2. ServicesDataUSvcClient FindRepairByld(string id)

GetPersonalRepairSchedule(string id)

- 1. EmployeesDataUSvcClient GetEmployeeServices(string id)
- 2. ServicesDataUSvcClient FindRepairByld(string id)

GetPersonalInspectionSchedule(string id)

- 1. EmployeesDataUSvcClient GetEmployeeServices(string id)
- 2. ServicesDataUSvcClient FindInspectionByld(string id)

FinishRepair(string id, double price, List<RepairedPartDto> repairedParts)

- 1. ServicesDataUSvcClient CompleteRepair(string id, double price, List<RepairedPartDto> repairedParts)
- 2. CarsDataUSvcClient AddServiceToCarHistory(string vin, string serviceId)
- 3. EmployeesDataUSvcClient RemoveEmployeeService(string serviceId)

FinishInspection(string id, double price, bool testsPassed, string commet)

- 1. ServicesDataUSvcClient CompleteInspection(string id, double price, bool testsPassed, string commet)
- $2. \ {\tt CarsDataUSvcClient-AddServiceToCarHistory(string\ vin, string\ serviceId)}$
- 3. EmployeesDataUSvcClient RemoveEmployeeService(string serviceId)

GetAllClients()

1. ClientsDataUSvcClient - GetAllClients()

GetClientInformation(string idCardNumber)

1. ClientsDataUSvcClient - FindClientByIdCard(string idCardNumber)

GetAllMechanicalParts()

1. CarPartsDataUSvcClient - GetAllMechanicalParts()

GetAllBodyParts()

1. CarPartsDataUSvcClient - GetAllBodyParts()

GetAllLiquids()

1. CarPartsDataUSvcClient - GetAllLiquids()

FindBodyPartByMaterial(string material)

1. CarPartsDataUSvcClient - FindBodyPartByMaterial(string material)

FindBodyPartByBodyType(string bodyType)

1. CarPartsDataUSvcClient - FindBodyPartByBodyType(string bodyType)

UseCarPart(string carPartId)

1. CarPartsDataUSvcClient - RemoveCarPart(string id)

FindMechanicalPartByDimensions(double sizeX, double sizeY, double sizeZ)

1. CarPartsDataUSvcClient - FindMechanicalPartByDimensions(double sizeX, double sizeY, double sizeZ)

FindMechanicalPartByCategory(string category)

1. CarPartsDataUSvcClient - FindMechanicalPartByCategory(string category)

FindLiquidByDensity(int density)

1. CarPartsDataUSvcClient - FindLiquidByDensity(int density)

FindLiquidByCategory(string category)

1. CarPartsDataUSvcClient - FindLiquidByCategory(string category);

MechanicAppUSvc

ExtendedBodyPart
ExtendedLiquid
ExtendedMechanicalPart
ExtendedOtherProperties
ExtendedProperty
ExtendedInspection
ExtendedRepair
ExtendedRepairedPart

ExtendedCar ExtendedClient

ExtendedEmployee

Ssjw.EAutoService.ClientAppUSvc

GetAllClientCar(string idCardNumber)

- 1. ClientsDataUSvcClient FindClientByIdCard(string idCardNumber)
- 2. CarsDataUSvcClient GetCarByVin(string vin)

AddCar(ExtendedCar ExtendedCar)

1. CarsDataUSvcClient - AddNewCar(CarDto car)

GetCarByVin(string vin)

1. CarsDataUSvcClient - GetCarInformation(string vin)

GetCarlspectionHistory(string vin)

- 1. CarsDataUSvcClient GetCarByVin(string vin)
- 2. ServicesDataUSvcClient FindInspectionByld(string id)

GetCarRepairHistory(string vin)

- 1. CarsDataUSvcClient GetCarByVin(string vin)
- 2. ServicesDataUSvcClient FindRepairByld(string id)

ModifyCarData(...)

- 1. CarsDataUSvcClient RemoveCarByVin(string vin)
- 2. CarsDataUSvcClient AddCar(CarDto car)

${\bf GetAvailable Mechanincs (DateTime\ date)}$

- 1. EmployeesDataUSvcClient GetAllEmployees()
- 2 ServicesDataUSvcClient -Find<Service>Byld()

RequestNewRepair(ExtendedRepair repair)

- 1. ServicesDataUSvcClient AddRepair(RepairDto repair)
- $2.\ Employees Data USvcClient-Add Service To Employee (string id, string service)\\$

RequestNewInspection(ExtendedInspection inspection)

- 1. ServicesDataUSvcClient AddInspection(InspectionDto inspection)
- 2. EmployeesDataUSvcClient AddServiceToEmployee(string id, string service)

AddNewClient(ExtendedClient client)

1. ClientDataUSvcClient - AddClientToData(ClientDto clientDto)

GetAllMechanicalParts()

1. CarPartsDataUSvcClient - GetAllMechanicalParts()

GetAllBodyParts()

1. CarPartsDataUSvcClient - GetAllBodyParts()

GetAllLiquids()

1. CarPartsDataUSvcClient - GetAllLiquids()

FindMechanicalPartByPrice(decimal minPrice, decimal maxPrice)

CarPartsDataUSvcClient - FindMechanicalPartByPrice(decimal minPrice, decimal maxPrice)

FindMechanicalPartByCategory(string category)

1. CarPartsDataUSvcClient - FindMechanicalPartByCategory(string category)

FindBodyPartByPrice(decimal minPrice, decimal maxPrice)

 $1. \ CarPartsDataUSvcClient - FindBodyPartByPrice (decimal minPrice, decimal maxPrice)\\$

FindBodyPartByBodyType(string bodyType)

1. CarPartsDataUSvcClient - FindBodyPartByBodyType(string bodyType)

FindLiquidByPrice(decimal minPrice, decimal maxPrice)

 ${\bf 1.}~{\sf CarPartsDataUSvcClient-FindLiquidByPrice} ({\sf decimal\ minPrice}, \ {\sf decimal\ maxPrice})$

FindLiquidByCategory(string category)

1. CarPartsDataUSvcClient - FindLiquidByCategory(string category)

PurchaseCarPart(string id)

1. CarPartsDataUSvcClient - RemoveCarPart(string id)

ModifyPersonalData(ExtendedClient client)

- 1. ClientsDataUSvcClient AddClientToData(ClientDto client)
- $2. \ Clients Data USvc Client Remove Client From Data (string id Card Number);\\$

GetPersonalInformation(string id)

 $1. \ Client Data USvc Client - Find Client By Id (string id) \\$

ClientAppUSvc

ExtendedBodyPart

ExtendedEmployee

ExtendedLiquid
ExtendedMechanicalPart
ExtendedOtherProperties
ExtendedProperty
ExtendedInspection
ExtendedRepair
ExtendedRepairedPart
ExtendedCar
ExtendedClient

II ETAP



Ssjw.EAutoService. ClientApplication

- void LoadRepairsByVinList();
- void LoadBodyPartsList();
- void LoadBodyPartsByPrice();
- void LoadBodyPartsByBodyType();
- void LoadMechanicalPartsByPrice();
- void LoadMechanicalPartsByCategory();
- void LoadMechanicalPartsList();
- void LoadLiquidsByPrice();
- void LoadLiquidsByCategory();
- void LoadLiquidsList();
- void LoadInspectionsByVinList();
- void LoadCarsByldCardNumber();
- void LoadMechanicsByDate();
- void SaveRequestService();
- void SaveNewClient();
- void SaveNewCar();
- void LoadPersonalData();
- void SaveChangedPersonalData();

ClientApplication

ExtendedBodyPartDto
ExtendedLiquidDto
ExtendedMechanicalPartDto
ExtendedOtherPropertiesDto
ExtendedPropertyDto
ExtendedInspectionDto
ExtendedRepairDto
ExtendedRepairedPartDto
ExtendedCarDto
ExtendedClientDto
ExtendedEmployeeDto

Ssjw.EAutoService. MechanicApplication

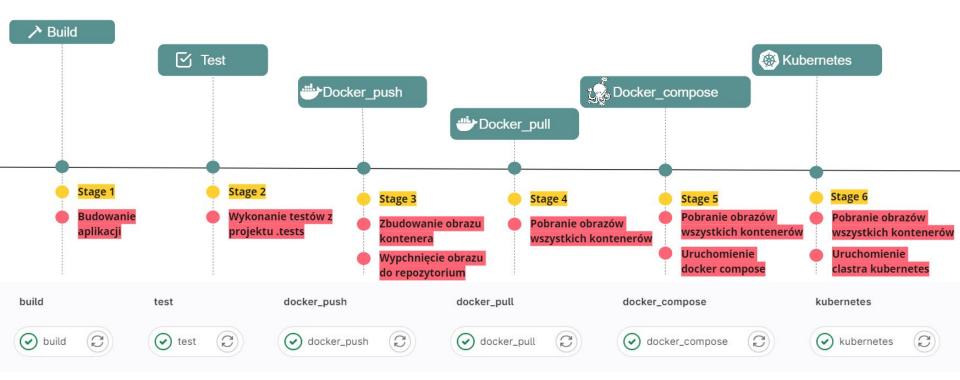
MechanicApplication

ExtendedBodyPartDto
ExtendedLiquidDto
ExtendedMechanicalPartDto
ExtendedOtherPropertiesDto
ExtendedPropertyDto
ExtendedInspectionDto
ExtendedRepairDto
ExtendedRepairedPartDto
ExtendedCarDto
ExtendedClientDto

ExtendedEmployeeDto

- void GetPersonalCars();
- void **SignIn()**;
- void LoadCarsHistory();
- void LoadPersonalSchedule();
- void LoadRepairedParts();
- void LoadAllBodyParts();
- void LoadAllMechanicalParts():
- void FinishInspection();
- void FinishRepair();
- void AddRepairedPart();
- void UseCarPart();
- void FindBodyPartByMaterial();
- void FindBodyPartByBodyType();
- void FindMechanicalPartByDimensions();
- void FindMechanicalPartByCategory();
- void LoadAllLiquids();
- void FindLiquidByDensity();
- void FindLiquidByCategory();
- void LoadAllClients();

Gitlab - CI/CD pipeline



Przykładowy plik dockerfile

Docker-compose: porty 5000(mechanic), 5001(client)
Kubernetes: mechanicApplication port 30080,
clientApplication port 30081,

FROM mcr.microsoft.com/dotnet/aspnet:6.0 AS base

WORKDIR /app

EXPOSE 80

EXPOSE 443

FROM mcr.microsoft.com/dotnet/sdk:6.0 AS build

WORKDIR /src

COPY ["Ssjw.EAutoService.WebClientApplication.BlazorServer/Ssjw.EAutoService.WebClientApplication.BlazorServer.csproj",

"Ssjw.EAutoService.WebClientApplication.BlazorServer/"]

COPY ["Ssjw.EAutoService.ClientApplication.Controller/Ssjw.EAutoService.ClientApplication.Controller.csproj", "Ssjw.EAutoService.ClientApplication.Controller/"]

COPY ["Ssjw.EAutoService.ClientApplication.Utilities/Ssjw.EAutoService.ClientApplication.Utilities/"]

COPY ["Ssjw.EAutoService.ClientApplication.Model/Sjw.EAutoService.ClientApplication.Model.csproj", "Ssjw.EAutoService.ClientApplication.Model/"]

COPY ["Ssjw.EAutoService.ClientApplication.Tests/Ssjw.EAutoService.ClientApplication.Tests.csproj", "Ssjw.EAutoService.ClientApplication.Tests/"]

COPY ["Ssjw.EAutoService.ClientAppUSvc.RestClient/Ssjw.EAutoService.ClientAppUSvc.RestClientAppUSvc.Re

COPY ["Ssjw.EAutoService.ClientAppUSvc.ServiceFacadeModel/Ssjw.EAutoService.ClientAppUSvc.ServiceFacadeModel.csproj",

"Ssjw.EAutoService.ClientAppUSvc.ServiceFacadeModel/"]

RUN dotnet restore Ssjw.EAutoService.WebClientApplication.BlazorServer/Ssjw.EAutoService.WebClientApplication.BlazorServer.csproj

RUN dotnet build "Ssjw.EAutoService.WebClientApplication.BlazorServer/Ssjw.EAutoService.WebClientApplication.BlazorServer.csproj" -c Release -o /app/build FROM build AS publish

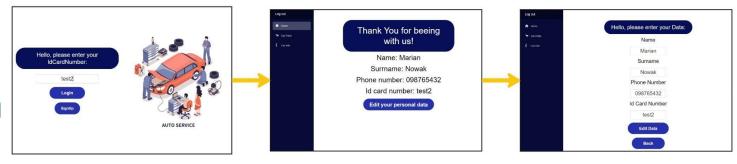
RUN dotnet publish "Ssjw.EAutoService.WebClientApplication.BlazorServer/Ssjw.EAutoService.WebClientApplication.BlazorServer.csproj" -c Release -o /app/publish FROM base AS final

WORKDIR /app

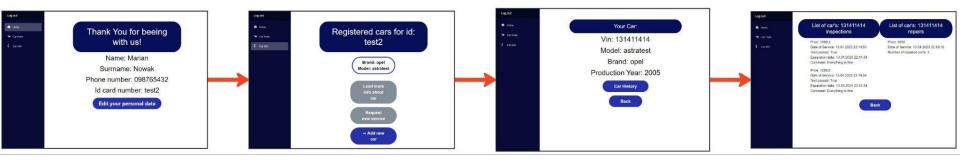
COPY --from=publish /app/publish.

ENTRYPOINT~["dotnet", "Ssjw.EAutoService.WebClientApplication.BlazorServer.dll"]

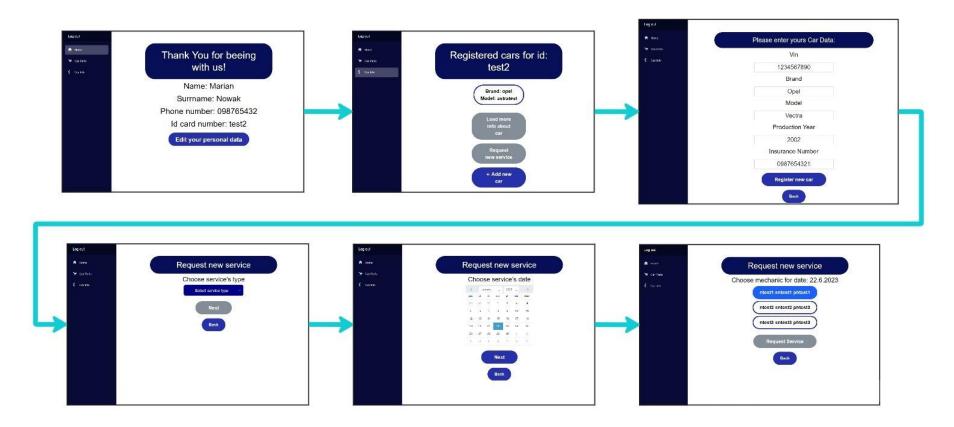
Client Application







żółty - logowanie i edycja danych; zielony - przeglądanie części samochodowych; czerwony - przeglądanie informacji o samochodach



niebieski - zlecanie serwisu

Mechanic **Application**

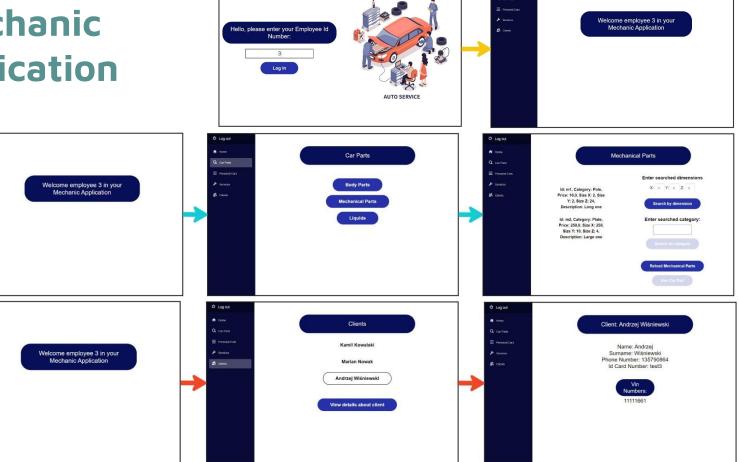
Q Car Mats

O Log out

A Home

Q Car Parts

Personal Cars



żółty - logowanie; niebieski - przeglądanie części samochodowych; czerwony - przeglądanie informacji o klientach

