Java Enterprise Edition

Fall Semester 2020

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HOME TASK 2

Problem 1

Your aim is to develop a simple web application for registering transports according to their types.

As a database, you can use simple **ArrayList** of **Transport** interface, inside of **DBManager.java** class, where you must create all methods to manage with them.

Transports.java

- + String getTransportName();
- + String getTransportDescription();
- + int getTransportPrice();

Trucks.java implements Transports interface

- Long id;
- String name;
- double liftingCapacity;
- int price;
- int trailerPrice;

Bus.java implements Transports interface

- Long id;
- String name;
- String model;
- int passengerPlaces;
- int price;

Cars.java implements Transports interface

- Long id;
- String name;
- String model;
- String carcaseType; // sedan, hatchback, cabriolet etc..
- int maxSpeed;
- double engineVolume;
- int price;
- int year;

Implement all methods of Transport.java interface in your classes.

Create constructors, getters and setters for parameters.

Inside of **DBManager.java** class, create static **ArrayList** of **Transport** interface.

Also, create static methods to manage with transports:

void addTransport(Transports transport); //this method adds new transport into list

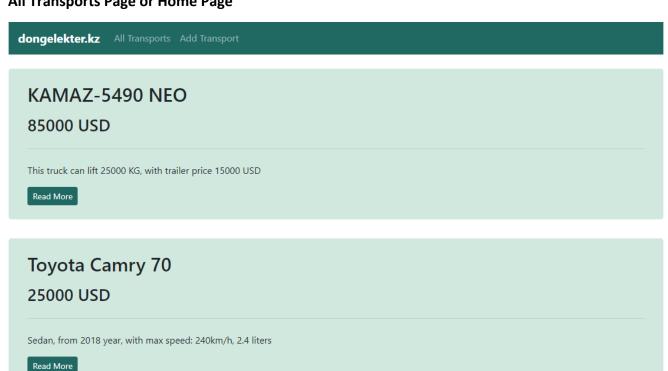
Transports getTransport (Long id); //this method returns an object of transport by id

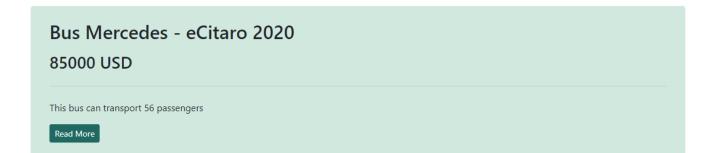
ArrayList<Transports> getAllTransports(); //this method returns a list of all transports

void deleteTransport(Long id); //this method deletes transport from list by id

In main page, you will have a list of all transports shown as in example:

All Transports Page or Home Page





Use JSP pages as a views.

Use Bootstrap 4 Library for CSS and Design.

After choosing transport type, you must open a form with input fields, according to chosen transport type.

All forms pages of adding transport must be different and with different theme.

Add Transport Page

dongelekter.kz	All Transports	Add Transport	
		CHOOSE TRANSPORT TYPE:	
		TRUCK	
		NEXT >	

So, if you choose **Truck**, you will create an object of **Truck.java** class and complete its parameters from a form.

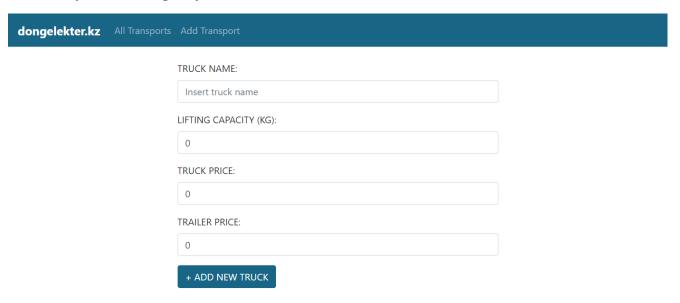
If you choose **Bus**, you will create an object of **Bus.java** class and complete its parameters from a form.

If you choose Car, you will create an object of Car.java class and complete its parameters from a form.

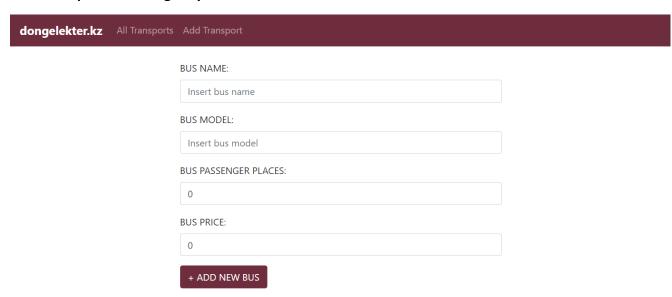
All these objects must be added into an **ArrayList<Transport>** in **DBManager.java** class.

Here, below, you will see an approximately designed form for each types of transports.

Add Transport Form Page if you choose Truck



Add Transport Form Page if you choose Bus



Add Transport Form Page if you choose Car

