# Rent-a-Car Assignment

Create an application for managing a car rental company. This application should provide functionality for browsing, adding, updating, deleting vehicles in the car fleet and managing the rentals for specific customers.

## Data

Your application must store the following information:

**Vehicle types**: economy, estate, luxury, SUV, cargo

**Vehicle**:

* Brand
* Model
* Construction year

**Fuel type** – petrol, diesel, hybrid, electric

**Number of seats**

**Picture** (link)

**Price per day**

**Count** - number of available vehicles

**Customer:**

Full name

Email address

Phone number

**Rental event:**

Start date and time

End date and time

Vehicle

Customer

**Tasks:**

Create, read, update and delete vehicles

Create, read, update and delete customers

Rent a car

**Business rules:**

When a vehicle is rented the number of available vehicles should be updated

If the rental period is:

More than 3 days - 5% discount

More than 5 days - 7% discount

More than 10 days - 10% discount

If a customer has rented a vehicle more than 3 times in the last 60 days, they would be designated as VIP customers and get a discount of 15%.

## Technologies

* React
* JSON Server

## Criteria

[Customers] Read feature

[Customers] Create feature

[Customers] Edit feature

[Customers] Delete feature

[Vehicles] Read feature (list, browse)

[Vehicles] Create feature

[Vehicles] Update feature

[Vehicles] Delete feature

Rent a car feature

Business rules on rent a car

Data Validation

User Interface/User Experience

Code formatting

Naming Conventions

Code Reuse

## Deliverables

Application source code

You must submit a link with your deliverables. The link can be either for source control hosting (GitHub, GitLab, Bitbucket, etc.) or cloud storage (Google Drive, OneDrive, pCloud, etc.). Send/upload only the source code, **without node\_modules** to one of the listed providers above and mail me the shareable link to [**todor.ivanov@uni-plovdiv.bg**](mailto:todor.ivanov@uni-plovdiv.bg).

If you have any additional questions – ping me on email/Facebook/Google.