Java Web Development Basics

Java EE Workshop – Servlets & JSP

West Compass Car Dealer Shop

West Compass Dealer Shop is an web application where you can add your car offers. There are two main entities, Users and Cars .

1. Database Requirements

The **Database** of the application needs to support **2 entities**:

User

- Has a **Username**
- Has a **Password**
- Has an **Email**
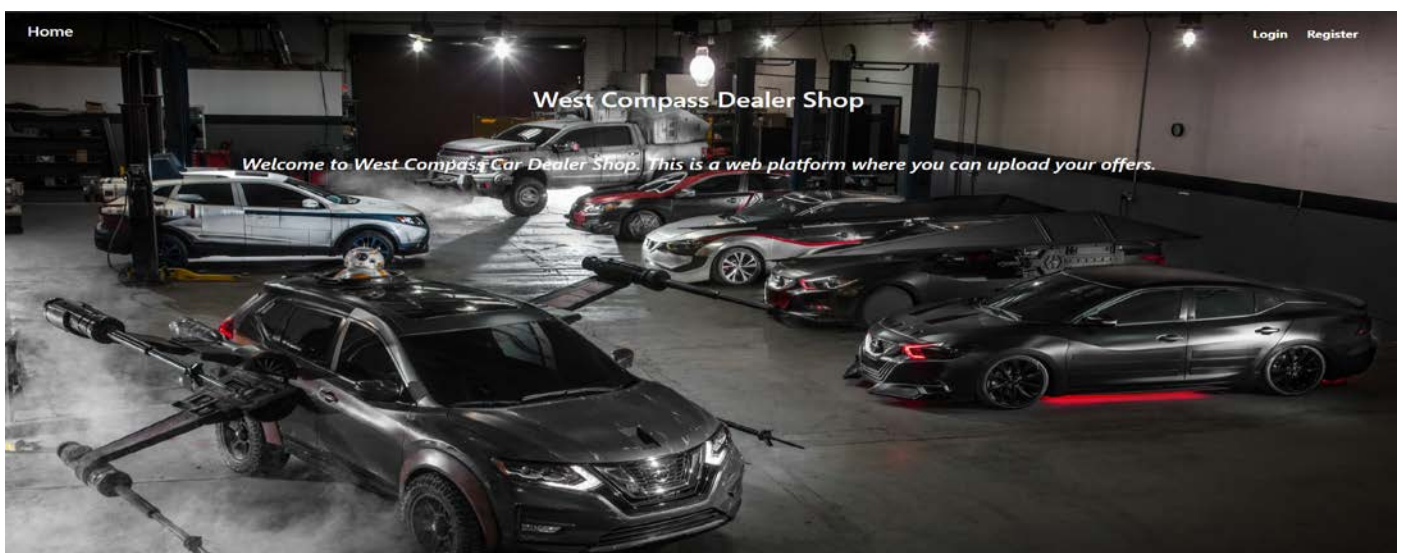- Has **Cars** (a collection of **cars**)

Car

- Has a **Brand**
- Has a **Model**
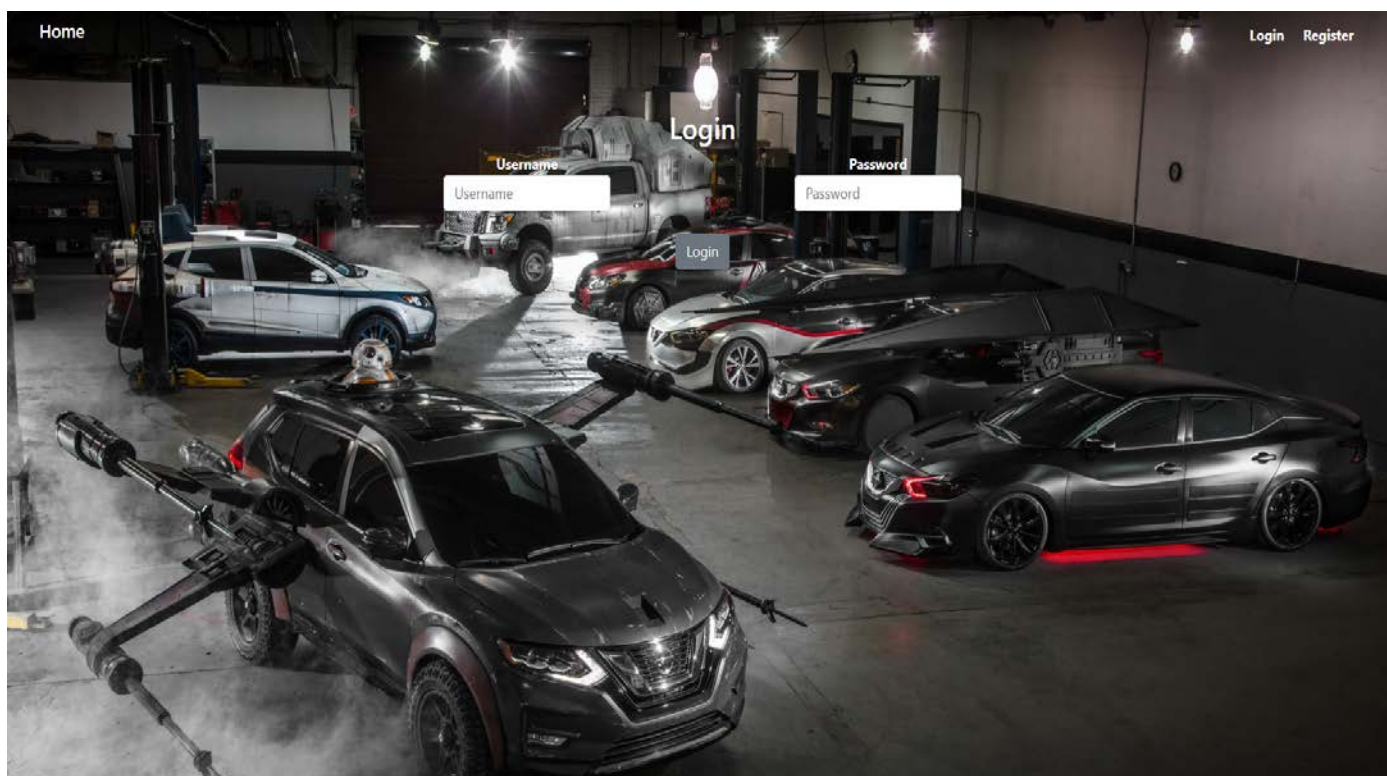- Has a **Year**
- Has an **Engine**
- Has **User**

Implement the entities with the **correct datatypes**, and implement **repositories** for them.
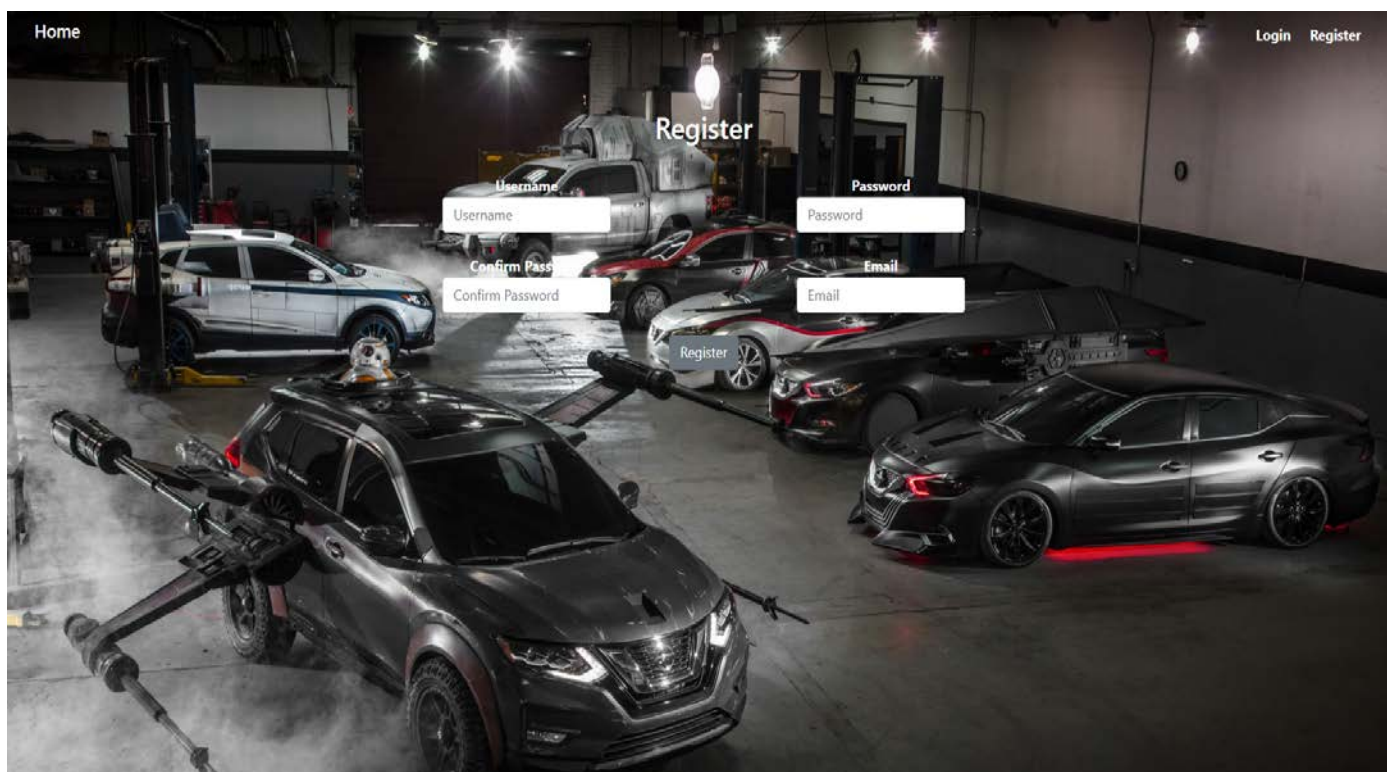
2. Templates

Index Template (route = "/index") (logged out user)
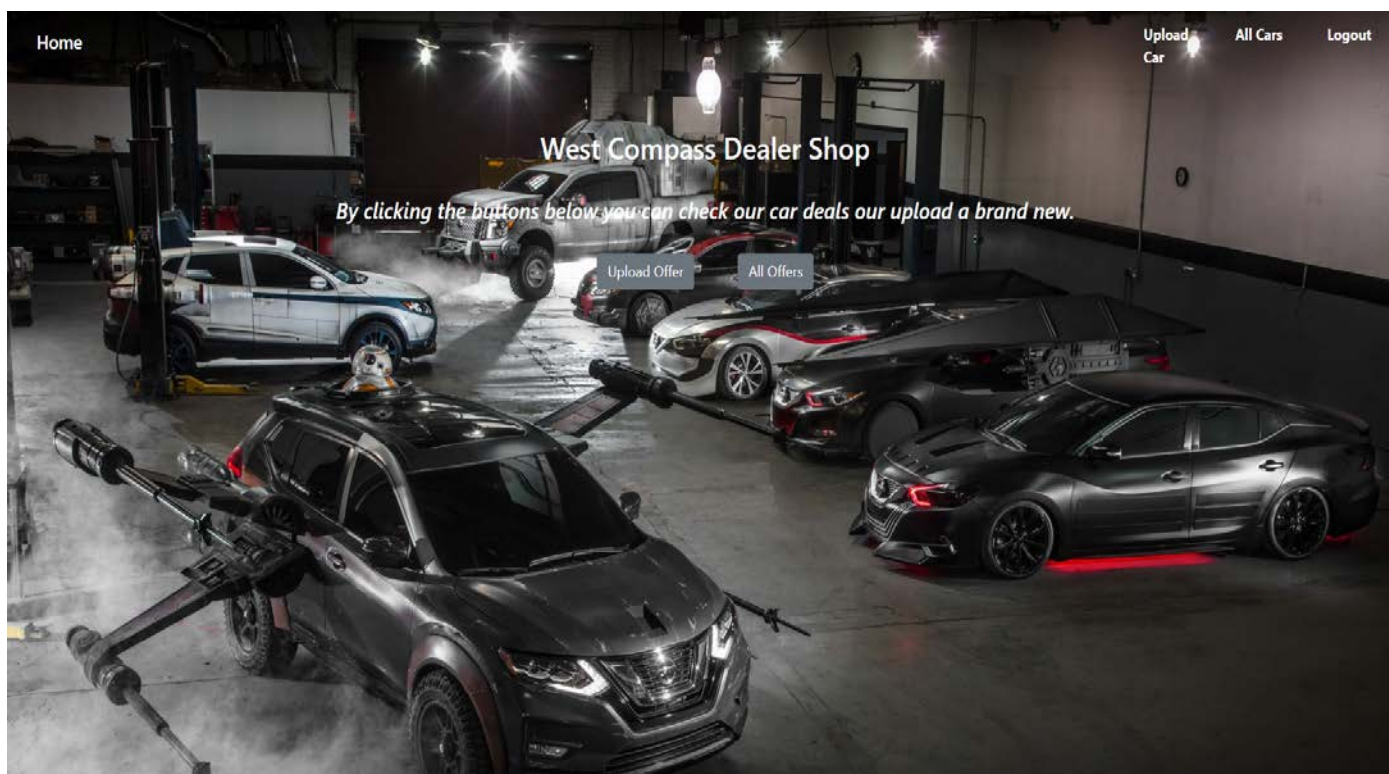

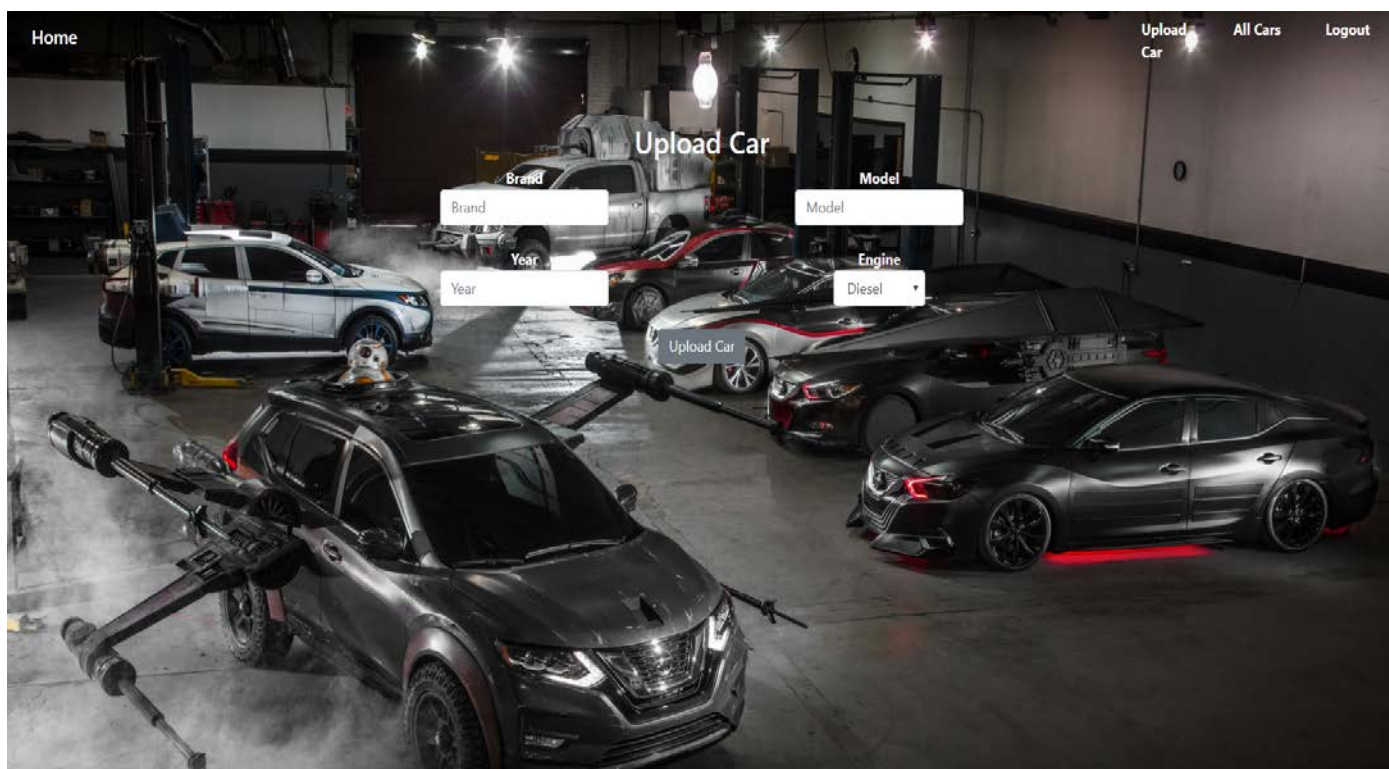# Login Template (route = "/users/login") (logged out user)

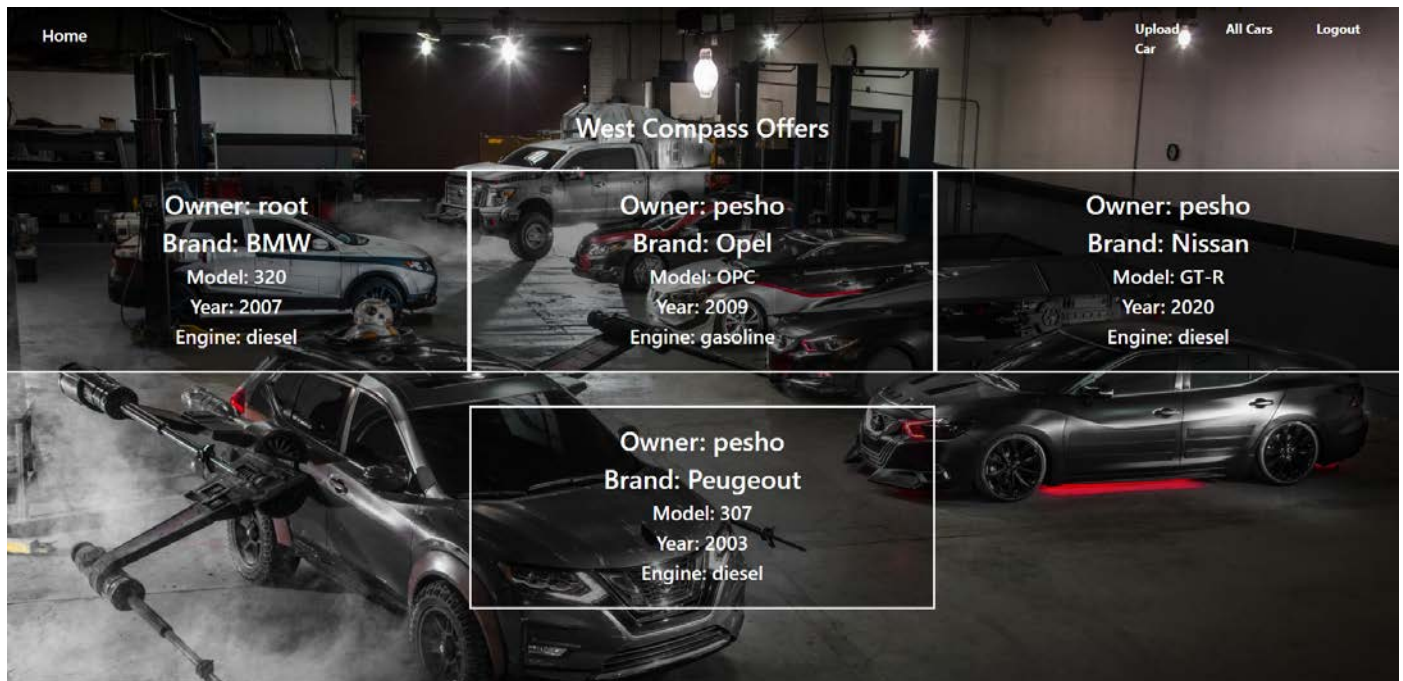# Register Template (route = "/users/register") (logged out user)

Home Template (route="/home") (logged in user)

Cars Create Template (route="/cars/create") (logged in user)

Cars All Template (route="/cars/all") (logged in user)

NOTE: All the templates have been given to you as `.html` files. You need to make `.jsp` files from them.

NOTE: The templates do **NOT require additional CSS** for you to write. Only **bootstrap** and the **given css** are enough.

NOTE: To **include** the proper **CSS** use "${**pageContext.request.contextPath**}/css/style.css".

1. Functional Requirements

The **Functionality Requirements** describe the functionality that the **Application** must support.

For **Index** you should use exactly "**/index"** as URL, not "**/**".

The **application** should provide **Guest** (not logged in) users with the functionality to:

- **Login**
- **Register**
- **View** the **Index** page.

The **application** should provide **Users** (logged in) with the functionality to:

- **Logout**
- **Home**
- **View** all **Cars** (**All Cars** page)
- **Create** a **Car**.

The **application** should **store** its **data** into a **MySQL** database, using **Hibernate** native.

2. Security Requirements

The **Security Requirements** are mainly access requirements. Configurations about which users can access specific functionalities and pages.

- **Guest** (not logged in) users can access **Index** page.
- **Guest** (not logged in) users can access **Login** page.

- **Guest** (not logged in) users can access **Register** page.
- **Users** (logged in) can access **Home** page.
- **Users** (logged in) can access **Cars Create** page.
- **Users** (logged in) can access **Cars All** page.
- **Users** (logged in) can access **Logout** functionality.