



Workshop 01

Building an Automobile Management Web Application

Introduction

Imagine you're an employee of an online car retailer named **Automobile eStore**. Your manager has asked you to develop a Web application for automobile management (CarID, CarName, Manufacturer, Price, and ReleasedYear). The application has to support adding, viewing, modifying, and removing products. A standardized usage action verbs better known as Create, Read, Update, Delete (CRUD).

This workshop explores creating an application using Java Web Project. An **SQL Server Database** will be created to persist the car's data that will be used for reading and managing automobile data by **JDBC**

Objectives

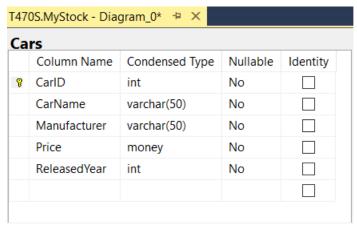
In this workshop, you will be:

- Develop an Java Web Application by HTML, JSP and Servlet
- Perform CRUD actions using JDBC
- Create a SQL Server database named MyStock that has a Cars table.
- Use LINQ in Java to query and sort data (optional)
- Apply to validate data type for all fields.
- Run the project and test the Java Web Application actions.





MyStock Database





The user interface of the web application as follows:

Home page

AutomobileWebApp Home Privacy

Car List

Create New

Carld	CarName	Manufacturer	Price	ReleasedYear	
1	Civic 2.0	Honda	34000.00	2021	Edit Details Delete
2	BMW 523i	BMW	100000.00	2021	Edit Details Delete
3	Clarity	Honda Motor Company	33400.00	2021	Edit Details Delete
4	BMW 8 Series	BMW	85000.00	2021	Edit Details Delete
5	Audi A8	Audi	16000.00	2020	Edit Details Delete





Click **Edit** link and display the result as the below figure, enter the values on text fields then click **Save** to update the car.

Carld 1 CarName Civic 2.0 Manufacturer Honda Price 34000.00 ReleasedYear 2021

Click **Details** link to view Car details.



Click **Create New** link and display the result as the below figure, enter the values on text fields then click **Save** to add a new car.





Add New Car



Click **Delete** link and display the result as the below figure. Click Delete button to remove Car

Delete

Are you sure you want to delete this?

Car

Carld 5
CarName Audi A8
Manufacturer Audi
Price 16000.00
ReleasedYear 2020

Delete Back to List