Date 5/6/2023

CSM3023

WEB BASED APPLICATION DEVELOPMENT

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LAB 8(MP2)

Creating MVC Database Web Application in JSP and Servlets – for Create, Read, Update, Delete

Creating the database.

```
CREATE DATABASE IF NOT EXISTS Company;
USE Company;

CREATE TABLE IF NOT EXISTS employees(
   id INT NOT NULL AUTO_INCREMENT,
   Name VARCHAR(60),
   Email VARCHAR(50),
   Position VARCHAR(15),
   PRIMARY KEY (id)
```

Requirements:

- Run index.jsp page.
- Click List All User button to show all records.
- Click Add User button to create new record.
- Click hyperlink Update to do edit/update an existing record.
- Click hyperlink Delete to do delete an existing record.

Run index.jsp page.

Application MVC system for Employee Management

- All Employee List
- Add a new Employee
- Edit Employee

Click List All User button to show all records.

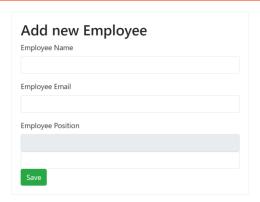
Employee Management App Employee

List of Employees

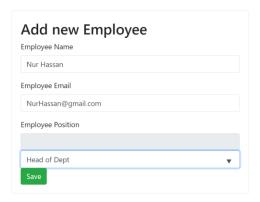
ID	Name	Email	Position	Action			
7	Omar	Omar@something.com	Director	Edit Delete			
8	Gary Lim	gary@something.com	Director	Edit Delete			
9	Najmudin	Najm@something.com	Head of Dept	Edit Delete			

Click Add User button to create new record.

Employee Management App Employee



Employee Management App Em



Employee Management App Employee

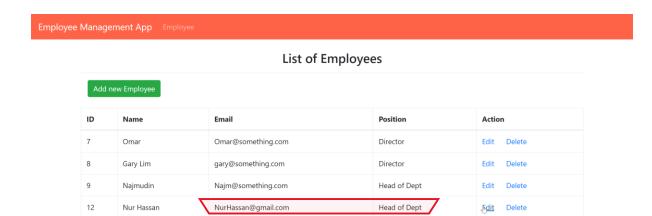
List of Employees

Add new Employee

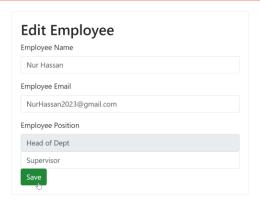
ID	Name	Email	Position	Action
7	Omar	Omar@something.com	Director	Edit Delete
8	Gary Lim	gary@something.com	Director	Edit Delete
9	Najmudin	Najm@something.com	Head of Dept	Edit Delete
12	Nur Hassan	NurHassan@gmail.com	Head of Dept	Edit Delete



Click hyperlink Update to do edit/update an existing record.

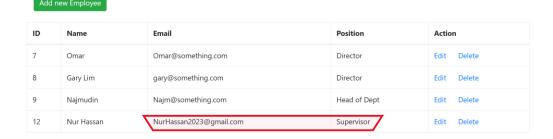


Employee Management App Employee



Employee Management App Employee

List of Employees



Click hyperlink Delete to do delete an existing record.

Employee Management App Emp

List of Employees

Add new Employee

ID	Name	Email	Position	Action
7	Omar	Omar@something.com	Director	Edit Delete
8	Gary Lim	gary@something.com	Director	Edit Delete
9	Najmudin	Najm@something.com	Head of Dept	Edit Delete
12	Nur Hassan	NurHassan2023@gmail.com	Supervisor	Edit <u>Delete</u>

Employee Management App

Employee

List of Employees

Add new Employee

ID	Name	Email	Position	Action
7	Omar	Omar@something.com	Director	Edit Delete
8	Gary Lim	gary@something.com	Director	Edit Delete
9	Najmudin	Najm@something.com	Head of Dept	Edit Delete

B

Lab exercise

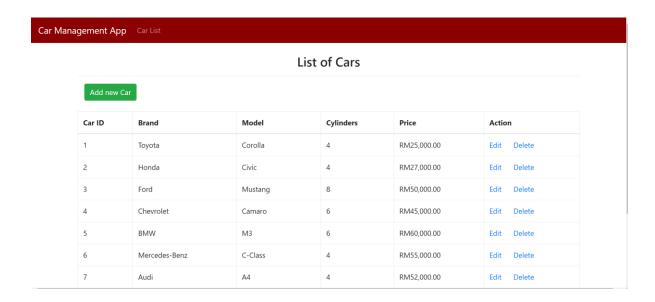
The application should be able to handle these activities:

- View all data
- Add new data
- Edit/Update current data
- Delete the specific data

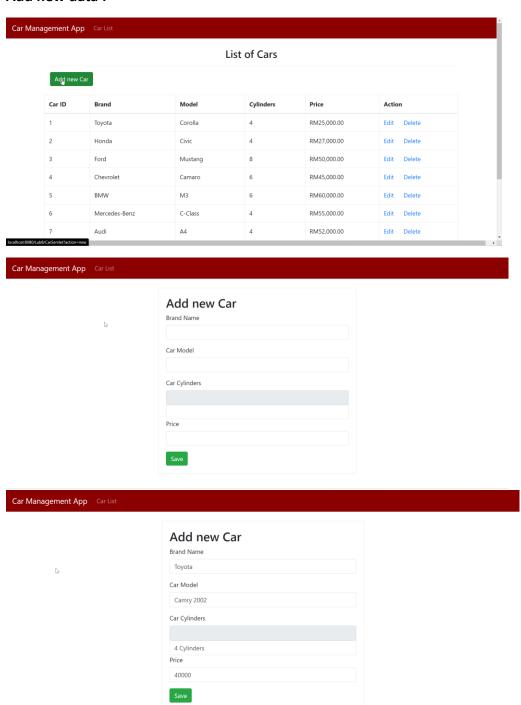
View all data:

List of Cars Prices System(Lab Exercise)

- All Car Prichs
- Add a new Car
- Edit Car Information



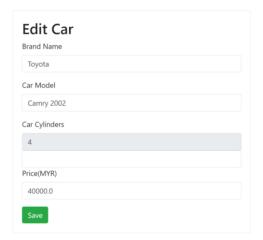
Add new data:

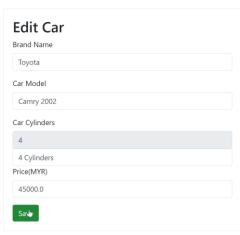


Car ID	Brand	Model	Cylinders	Price	Action
1	Toyota	Corolla	4	RM25,000.00	Edit Delete
2	Honda	Civic	4	RM27,000.00	Edit Delete
3	Ford	Mustang	8	RM50,000.00	Edit Delete
4	Chevrolet	Camaro	6	RM45,000.00	Edit Delete
5	BMW	M3	6	RM60,000.00	Edit Delete
6	Mercedes-Benz	C-Class	4	RM55,000.00	Edit Delete
7	Audi	A4	4	RM52,000.00	Edit Delete
8	Nissan	Altima	4	RM28,000.00	Edit Delete
9	Hyundai	Elantra	4	RM23,000.00	Edit Delete
10	Kia	Optima	4	RM25,000.00	Edit Delete
12	Toyota	Camry 2002	4	RM40,000.00	Edit Delete

Edit/Update current data:

Car ID	Brand	Model	Cylinders	Price	Action
1	Toyota	Corolla	4	RM25,000.00	Edit Delete
2	Honda	Civic	4	RM27,000.00	Edit Delete
3	Ford	Mustang	8	RM50,000.00	Edit Delete
4	Chevrolet	Camaro	6	RM45,000.00	Edit Delete
5	BMW	M3	6	RM60,000.00	Edit Delete
6	Mercedes-Benz	C-Class	4	RM55,000.00	Edit Delete
7	Audi	A4	4	RM52,000.00	Edit Delete
8	Nissan	Altima	4	RM28,000.00	Edit Delete
9	Hyundai	Elantra	4	RM23,000.00	Edit Delete
10	Kia	Optima	4	RM25,000.00	Edit Delete
12	Toyota	Camry 2002	4	RM40,000.00	<u>Edit</u> Delete





Car ID	Brand	Model	Cylinders	Price	Action
1	Toyota	Corolla	4	RM25,000.00	Edit Delete
2	Honda	Civic	4	RM27,000.00	Edit Delete
3	Ford	Mustang	8	RM50,000.00	Edit Delete
4	Chevrolet	Camaro	6	RM45,000.00	Edit Delete
5	BMW	M3	6	RM60,000.00	Edit Delete
6	Mercedes-Benz	C-Class	4	RM55,000.00	Edit Delete
7	Audi	A4	4	RM52,000.00	Edit Delete
8	Nissan	Altima	4	RM28,000.00	Edit Delete
9	Hyundai 🔉	Elantra	4	RM23,000.00	Edit Delete
10	Kia	Optima	4	RM25,000.00	Edit Delete
12	Toyota	Camry 2002	4	RM45,000.00	Edit Delete

Delete the specific data:

Car ID	Brand	Model	Cylinders	Price	Action
1	Toyota	Corolla	4	RM25,000.00	Edit Delete
2	Honda	Civic	4	RM27,000.00	Edit Delete
3	Ford	Mustang	8	RM50,000.00	Edit Delete
4	Chevrolet	Camaro	6	RM45,000.00	Edit Delete
5	BMW	M3	6	RM60,000.00	Edit Delete
6	Mercedes-Benz	C-Class	4	RM55,000.00	Edit Delete
7	Audi	A4	4	RM52,000.00	Edit Delete
8	Nissan	Altima	4	RM28,000.00	Edit Delete
9	Hyundai	Elantra	4	RM23,000.00	Edit Delete
10	Kia	Optima	4	RM25,000.00	Edit Delete
12	Toyota	Camry 2002	4	RM45,000.00	Edit <u>Delete</u>

Add new Car

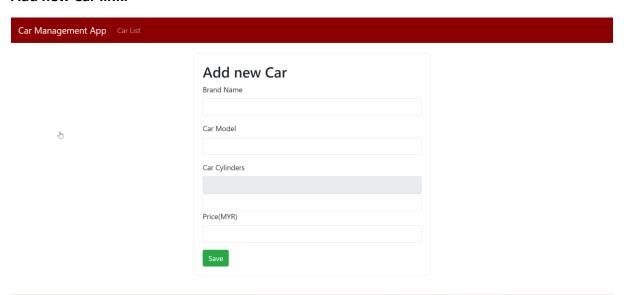
Car ID	Brand	Model	Cylinders	Price	Action
1	Toyota	Corolla	4	RM25,000.00	Edit Delete
2	Honda	Civic	4	RM27,000.00	Edit Delete
3	Ford	Mustang	8	RM50,000.00	Edit Delete
4	Chevrolet	Camaro	6	RM45,000.00	Edit Delete
5	BMW	M3	6	RM60,000.00	Edit Delete
6	Mercedes-Benz	C-Class	4	RM55,000.00	Edit Delete
7	Audi	A4	4	RM52,000.00	Edit Delete
8	Nissan	Altima	4	RM28,000.00	Edit Delete
9	Hyundai	Elantra	4	RM23,000.00	Edit Delete
10	Kia	Optima	4	RM25,000.00	Edit <u>Delete</u>

The additional links here can lead directly either to add new car or to display the car list instantly.

List of Cars Prices System(*Lab Exercise*)

- All Car Prices
- Add a new Car
- Edit Car Information

Add new Car link:



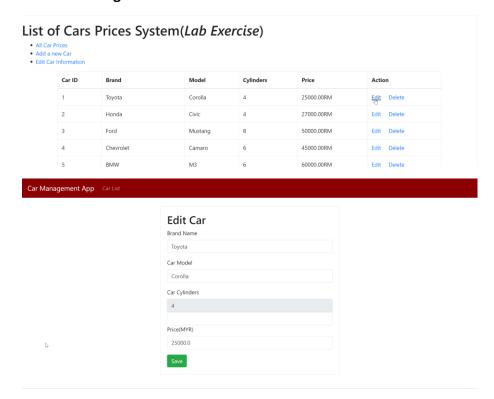
Edit Car information link will display list of cars, then user can click edit or delete action:

List of Cars Prices System(Lab Exercise)

- All Car Prices
- Add a new Car
- Edit Car Information

	Car ID	Brand	Model	Cylinders	Price	Action
	1	Toyota	Corolla	4	25000.00RM	Edit Delete
	2	Honda	Civic	4	27000.00RM	Edit Delete
	3	Ford	Mustang	8	50000.00RM	Edit Delete
	4	Chevrolet	Camaro	6	45000.00RM	Edit Delete
	5	BMW	M3	6	60000.00RM	Edit Delete
localhost:8080/Lab8,	/index.jsp#					

Clicking edit



Delete

List of Cars Prices System(Lab Exercise)

- All Car Prices Add a new Car Edit Car Information

Car ID	Brand	Model	Cylinders	Price	Action
1	Toyota	Corolla	4	25000.00RM	Edit <u>Delete</u>
2	Honda	Civic	4	27000.00RM	Edit Delete
3	Ford	Mustang	8	50000.00RM	Edit Delete

List of Cars Prices System(Lab Exercise)

- Add a new Car
 Edit Car Information

Car ID	Brand	Model	Cylinders	Price	Action
2	Honda	Civic	4	27000.00RM	Edit Delete
3	Ford	Mustang	8	50000.00RM	Edit Delete
4	Chevrolet	Camaro	6	45000.00RM	Edit Delete

That's all, thank you very much.