Tutorial 4

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View Dealer berdasarkan ID

1. Implementasikan method di DealerController untuk menampilkan sebuah dealer berdasarkan id dealer. Method ini menerima parameter id dealer dan mengembalikan view (view-dealer.html).

Buat method viewDealer pada DealerController

```
@RequestMapping(value= "/dealer/view", method = RequestMethod.GET)
 private String viewDealer(@RequestParam ("dealerId") long dealerId, Model model) {
     DealerModel archive = dealerService.getDealerDetailById(dealerId).get();
     model.addAttribute("dealer", archive);
     return "view-dealer";
 }
Isi dari view-dealer.html
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
        <title>View Dealer</title>
    </head>
    <body>
        <h3 th:text="'Alamat = ' + ${dealer.alamat}"></h3>
<h3 th:text="'Telepon = ' + ${dealer.noTelp}"></h3>
        <a th:href="@{/dealer/update/} + ${dealer.id}">Update Dealer</a> <br>
        <a th:href="@{/car/add/} + ${dealer.id}">Tambah Mobil</a>
    </body>
</html>
```

Car dealer berdasarkan ID

Hello!

Tambah Dealer

Tambah

Cari Dealer berdasarkan Id

Id Dealer:	
2	Cari

Hasil pencarian

Alamat = bogor

Telepon = 123573

Tambah Mobil

2. Buatlah tampilan view-dealer.html seperti gambar di bawah ini. (Tambahkan link untuk menambahkan mobil)

```
Alamat = bogor
Telepon = 123573
Tambah Mobil
```

3. Jalankan program untuk menambah mobil dalam sebuah dealer

Buat method add untuk menambahkan mobil

```
@RequestMapping(value= "/car/add/{dealerId}", method = RequestMethod.GET)
private String add(@PathVariable(value = "dealerId") Long dealerId, Model model) {
    CarModel car = new CarModel();
    DealerModel dealer = dealerService.getDealerDetailById(dealerId).get();
    car.setDealer(dealer);

    model.addAttribute("car", car);
    return "addCar";
}

@RequestMapping(value= "/car/add", method = RequestMethod.POST)
private String addCarSubmit(@ModelAttribute CarModel car) {
    carService.addCar(car);
    return "add";
}
```

Tampilan halaman untuk menambahkan mobil

Hello!
Tambah Mobil
Brand:
honda
Type:
brio
Price:
175000000
Amount:
50
Submit

Mobil berhasil ditambahkan

Data Berhasil Ditambahkan

Latihan

1. Ubah method view dealer agar menampilkan daftar mobil beserta detail terurut berdasarkan harga mobil.

Buat method viewDealer yang menggunakan sort untuk menampilkan list mobil secara terurut berdasarkan harga

```
@RequestMapping(value= "/dealer/view", method = RequestMethod.GET)
private String viewDealer(@RequestParam ("dealerId") long dealerId, Model model) {
    DealerModel archive = dealerService.getDealerDetailById(dealerId).get();
    List<CarModel> listCar = archive.getListCar();
    Collections.sort(listCar, new sortCar());
    model.addAttribute("dealer", archive);
    model.addAttribute("listCar", listCar);
    return "view-dealer";
}
```

Buat class yang mengimplementasikan Comparator untuk sort mobil berdasarkan harga

```
class sortCar implements Comparator<CarModel> {
    public int compare(CarModel a, CarModel b) {
        return (int) (a.getPrice() - b.getPrice());
    }
}
```

Isi dari view-dealer.html

```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
   <head>
       <title>View Dealer</title>
   </head>
    <body>
       <h3 th:text="'Alamat = ' + ${dealer.alamat}"></h3>
       <h3 th:text="'Telepon = ' + ${dealer.noTelp}"></h3>
       <a th:href="@{/car/add/} + ${dealer.id}">Tambah Mobil</a>
       <h3>Daftar Mobil</h3>
       <div th:each="car : ${listCar}">
           <h4 th:text="'Brand = ' + ${car.brand}"></h4>
           <h4 th:text="'Type = ' + ${car.type}"></h4>
           <h4 th:text="'Price= ' + ${car.price}"></h4>
           <h4 th:text="'Amount = ' + ${car.amount}"></h4>
       </div>
   </body>
</html>
```

```
Halaman yang ditampilkan
```

```
Alamat = bogor
Telepon = 123573
Tambah Mobil
Daftar Mobil
Brand = proton
Type = haha
Price= 34566798
Amount = 15
Brand = honda
Type = brio
Price= 175000000
```

2. Buatlah fitur delete untuk menghapus dealer dan sebuah mobil.

A. Menghapus Dealer

Amount = 50

```
Buat method deleteDealer di dalam DealerService
public interface DealerService {
    Optional<DealerModel> getDealerDetailById(Long id);

    void addDealer(DealerModel dealer);
    void deleteDealer(DealerModel dealer);

    DealerDb getDealerDb();
}

Buat implementasi dari method deleteDealer di dalam DealerServiceImpl
@Override
public void deleteDealer(DealerModel dealer) {
```

dealerDb.delete(dealer);

Buat method delete di dalam DealerController

```
@RequestMapping(value= "/dealer/delete/{dealerId}", method = RequestMethod.GET)
private String delete(@PathVariable(value = "dealerId") Long dealerId, Model model) {
    DealerModel archive = dealerService.getDealerDetailById(dealerId).get();
    dealerService.deleteDealer(archive);
    return "delete-dealer";
}

Sebelum dihapus

Daftar Dealer

Alamat = bogor

Telepon = 123573
```

ID = 1

Hapus

Dealer berhasil dihapus

Data Berhasil Dihapus

Setelah dihapus

Daftar Dealer

B. Menghapus Mobil

```
Buat method deleteCar di dalam CarService
public interface CarService {
    Optional<CarModel> getCarDetailById(Long id);
    void addCar(CarModel car);
    void deleteCar(CarModel car);
    CarDb getCarDb();
}
```

```
Buat implementasi dari method deleteCar di dalam CarServiceImpl
```

```
public void deleteCar(CarModel car) {
      carDb.delete(car);
Buat method delete di dalam CarController
  @RequestMapping(value= "/car/delete/{carId}", method = RequestMethod.GET)
private String delete(@PathVariable(value = "carId") Long carId, Model model) {
       CarModel archive = carService.getCarDetailById(carId).get();
       carService.deleteCar(archive);
       return "delete-dealer";
  }
Sebelum dihapus
 Alamat = bogor
 Telepon = 123573
 Tambah Mobil
 Daftar Mobil
 Brand = honda
 Type = brio
 Price= 175000000
 Amount = 50
 <u>Hapus</u>
```

Mobil berhasil dihapus

Data Berhasil Dihapus

```
Setelah dihapus
```

Alamat = bogor

Telepon = 123573

Tambah Mobil

Daftar Mobil

3. Buatlah fitur update untuk seorang dealer dan sebuah mobil.

A. Update Dealer

```
Buat method updateDealer di dalam DealerService
public interface DealerService {
    Optional<DealerModel> getDealerDetailById(Long id);
    void addDealer(DealerModel dealer);
    void deleteDealer(DealerModel dealer);
    void updateDealer(DealerModel dealer);
    DealerDb getDealerDb();
}
```

Buat implementasi dari method updateDealer di dalam DealerServiceImpl

```
@Override
public void updateDealer(DealerModel dealer) {
    for (int i = 0; i < dealerDb.findAll().size(); i++) {
        if (dealerDb.findAll().get(i).getId() == (dealer.getId())) {
            DealerModel archive = dealerDb.findAll().get(i);
            int idx = dealerDb.findAll().indexOf(archive);

            dealerDb.findAll().get(idx).setAlamat(dealer.getAlamat());
            dealerDb.findAll().get(idx).setNoTelp(dealer.getNoTelp());
        }
    }
}</pre>
```

Buat method update di dalam DealerController

```
@RequestMapping(value= "/dealer/update/{dealerId}", method = RequestMethod.GET)
private String update(@PathVariable(value = "dealerId") Long dealerId, Model model) {
    System.out.println("masukkk dealer");

    this.idSementara = dealerId;
    model.addAttribute("dealer", new DealerModel());

    return "updateDealer";
}

@RequestMapping(value= "/dealer/update", method = RequestMethod.POST)
private String updateDealerSubmit(@ModelAttribute DealerModel dealer) {

    dealer.setId(idSementara);
    dealerService.updateDealer(dealer);
    return "update";
}
```

Isi dari updateDealer.html

Sebelum di-update

Alamat = bogor

Telepon = 123573

Update Dealer Tambah Mobil

Daftar Mobil

Brand = honda

Type = brio

Price= 175000000

Amount = 50

Update dealer

Update Dealer

Alamat:
Depok
No. Telp:
128490

Submit

Data Berhasil Diubah

```
Setelah di-update
```

```
Alamat = Depok
```

Telepon = 128490

Update Dealer Tambah Mobil

Daftar Mobil

Brand = honda

Type = brio

Price= 175000000

Amount = 50

B. Update Mobil

Buat method updateCar di dalam CarService

```
public interface CarService {
    Optional<CarModel> getCarDetailById(Long id);
    void addCar(CarModel car);
    void deleteCar(CarModel car);
    void updateCar(CarModel car);
    CarDb getCarDb();
}
```

Buat implementasi dari method updateCar di dalam CarServiceImpl

```
@Override
public void updateCar(CarModel car) {
    for (int i = 0; i < carDb.findAll().size(); i++) {
        if (carDb.findAll().get(i).getId() == (car.getId())) {
            CarModel archive = carDb.findAll().get(i);
            int idx = carDb.findAll().indexOf(archive);

            carDb.findAll().get(idx).setBrand(car.getBrand());
            carDb.findAll().get(idx).setType(car.getType());
            carDb.findAll().get(idx).setPrice(car.getPrice());
            carDb.findAll().get(idx).setAmount(car.getAmount());
        }
    }
}</pre>
```

Buat method update di dalam CarController

```
@RequestMapping(value= "/car/update/{carId}", method = RequestMethod.GET)
private String updateCar(@PathVariable(value = "carId") String carId, Model model) {
    CarModel archive = carService.getCarDetailById(Long.parseLong(carId)).get();
    this.idSementara = Long.parseLong(carId);
    model.addAttribute("car", archive);
    return "updateCar";
}

@RequestMapping(value= "/car/update/", method = RequestMethod.POST)
private String updateCarSubmit(@ModelAttribute CarModel car) {
    car.setId(idSementara);
    carService.updateCar(car);
    return "update";
}
```

Isi dari updateCar.html

```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
    <title>Update Car</title>
</head>
<body>
    <h3>Update Car</h3>
    <form th:action="@{/car/update/{carId}(carId=${car.id}))}" method="POST">
        Brand: <br>
        <input type="text" name="brand" /> <br>
        Type: <br>
         <input type="text" name="type" /> <br>
        Price: <br>
        <input type="text" name="price" /> <br>
        <input type="text" name="amount" /> <br><br>
        <button type="submit">Submit</button>
    </form>
</body>
</html>
```

Sebelum di-update		
$\mathbf{Alamat} = \mathbf{Depok}$		
Telepon = 128490		
<u>Update Dealer</u> <u>Tambah Mobil</u>		
Daftar Mobil		
Brand = honda		
Type = brio		
Price= 175000000		
Amount = 50		
Hapus Update		

Update mobil

Update Car

Brand:	
suzuki	
Type:	
ertiga	
Price:	
150000000	
Amount:	
25	
Submit	

Mobil berhasil di-update

Data Berhasil Diubah

```
Setelah di-update
```

```
Alamat = Depok
```

Telepon = 128490

Update Dealer Tambah Mobil

Daftar Mobil

Brand = suzuki

Type = ertiga

Price= 150000000

Amount = 25

Hapus Update

4. Buatlah fitur untuk melihat view all dealer sehingga dapat menampilkan brand mobil beserta amount dan price yang dijual.

Isi dari home.html yang ditambahkan fitur "Lihat Dealer"

```
k!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
   <title>Home</title>
</head>
<body>
   <h2>Hello!</h2>
   <h3>Tambah Dealer</h3>
   <a th:href="@{/dealer/add}">Tambah</a>
    <h3>Lihat Dealer</h3>
    <a th:href="@{/dealer/viewall}">Lihat</a>
   <h3>Cari Dealer berdasarkan Id</h3>
    <form th:action="@{/dealer/view}" method="GET">
       Id Dealer: <br>
       <input type="text" name="dealerId" />
       <button type="submit">Cari</button>
    </form>
</body>
</html>
```

Method viewAll di dalam DealerController

```
@RequestMapping("/dealer/viewall")
public String viewall (Model model) {

   DealerDb dealerDb = dealerService.getDealerDb();
   List<DealerModel> listDealer = dealerDb.findAll();

   model.addAttribute("listDealer", listDealer);
   return "viewall-dealer";
}
```

Isi dari viewall-dealer.html yang akan menampilkan semua dealer beserta mobil yang ada di dalamnya

```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
        <title>View All Dealer</title>
    </head>
    <body>
        <h3>Daftar Dealer</h3>
        <div th:each="dealer : ${listDealer}">
            <h4 th:text="'Alamat = ' + ${dealer.alamat}"></h4>
<h4 th:text="'Telepon = ' + ${dealer.noTelp}"></h4>
            <h4 th:text="'ID = ' + ${dealer.id}"></h4>
            <a th:href="@{/dealer/delete/} + ${dealer.id}">Hapus</a>
            <h5 th:text="'Amount = ' + ${car.amount}"></h5>
            </div>
            <br>
        </div>
    </body>
</html>
```

Tampilan Home

Hello!

Tambah Dealer

Tambah

Lihat Dealer

Lihat

Cari Dealer berdasarkan Id

Id Dealer:	
	Cari

Tampilan View All Dealer (Lihat Dealer)

Daftar Dealer

Alamat = Depok

Telepon = 128490

ID = 2

<u>Hapus</u>

Brand = suzuki

Price = 150000000

Amount = 25

Alamat = bogor

Telepon = 234990

ID = 3

<u>Hapus</u>

Brand = daihatsu

Price = 70000000

Amount = 30