Cheatsheet 4BHITM SEW-Test-01

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1. Quarkus

1.1. Dependencies

- hibernate-orm-panache
- resteasy
- resteasy-jackson
- resteasy-qute
- jdbc-postgresql
- smallrye-openapi

1.2. Projekt-Structure

src:

- boundary
  - VehicleApi
  - VehicleResource
- control
  - VehicleRepository
- entity
  - Vehicle
  - (Emum)

resources:

- templates
  - VehicleResource
    - listvehicles.html

- application-properties
- import.sql

1.3. Files

entity/Vehicle

```java
@Entity
public class Vehicle {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;

    @Enumerated(EnumType.STRING)
    private MyColor color;

    @Column(name = "FIRST_REGISTRATION")
    @JsonProperty("first-registration")
    private LocalDate firstRegistration;

    ...
```

control/VehicleRepository

```java
@ApplicationScoped
public class VehicleRepository implements PanacheRepository<Vehicle> {
}
```

boundary/VehicleResource

```java
@Path("/vehicle")
public class VehicleResource {
    @Inject
    VehicleRepository vehicleRepository;

    @CheckedTemplate
    public static class Templates {①
        public static native TemplateInstance listvehicles(List<Vehicle> vehicles);
    }

    @GET
    @Path("list")
    @Produces(MediaType.TEXT_HTML)
    public TemplateInstance listAllVehicles() {②
        var vehicles = vehicleRepository.listAll();
        return Templates.listvehicles(vehicles);
    }
```

① use Qute Template from `resources/templates/VehicleResource/listvehicles.html`

② display Site

boundary/VehicleResource

```java
@Path("api/vehicle")
public class VehiceApi {

    @Inject
    VehicleResource vehicleResource;

    @POST
    @Path("/create")
    @Consumes(MediaType.APPLICATION_FORM_URLENCODED)
    public TemplateInstance postHtmlForm(
            @FormParam("brand_form") String brand
            //other FromParams
    ) {
        //code
        return vehicleResource.listAllVehicles();
    }
}
```

Qute-Template

Form header

```html
<form
method="POST"
action="/api/vehicle/create"
enctype="application/x-www-form-urlencoded">
```

Enum in Form

```html
<label for="color_form"></label>①
    <select name="color_form" id="color_form">
        {#each MyColor:values}
            <option value="{it}">{it}</option>
        {/each}
    </select>
```

① `VehicleApi` @FormParam("color_form")

1.4. Links

- Quarkus-Doku-Hibernate
- Quarkus-Doku-Qute