


Hilfreiche Informationen 😊

- Listen initialisieren (LinkedList)
- JsonBTransient

DB - Connection

 Wenn das Bild nicht geht, hast du Pech gehabt

Panache - Entity

- PanacheEntityBase: Bei eigener ID (extends)
- PanacheEntity: Bei generated ID (extends)
- implements Serializable
- @Id --> @GeneratedValue --> Long
- @Column, @JoinColumn, @JoinTable (Attribute wie name, length, ... vergeben)
- @OneToMany, @ManyToOne, @ManyToMany --> mappedBy
- @NamedQuery(name = Klasse.Name, query = "...")

Repository

- ApplicationScoped
- implements PanacheRepository<Type>
- @Transactional
- Panache.getEntityManager() --> merge, persist, ...
- Panache-Methoden, wie find, findById, findAll, --> .list() nicht vergessen

```
TypedQuery<Genre> query = Panache.getEntityManager().createQuery( "...",
Genre.class);

Panache.getEntityManager().createNamedQuery(Genre.FINDALL,
Genre.class).getResultList();

query.getResultList().stream().map(entity -> new EntityDTO(entity.bezeichnung,
entity.id)).collect(Collectors.toList());
```

Boundary

- ApplicationScoped
- Path(...) --> Klasse und Methoden
- @GET, @POST, ...

- @Inject
- Response.ok().build()

Achja, DTO kommt übrigens auch 😁 😊

LG

EmbeddedID

Entity

```
@Entity()  
public class Entity {  
    @EmbeddedId  
    EntityEmbeddedId id;  
    ...  
}
```

EntityEmbeddedId

```
@Embeddable  
public class EntityEmbeddedId implements Serializable {  
  
    //Kann aus ids oder ganzen Entities bestehen, wie zB:  
    @ManyToOne  
    private Hall hall;  
  
    private int genreId;  
  
    // btw vergessst in hashCode und des equals ned haha  
}
```

IdClass

Entity

```
@Entity  
@IdClass(ProjectId.class)  
public class Project {  
    @Id  
    private int departmentId;  
    @Id  
    private int projectNo;  
}
```

```
    ...  
}
```

ProjectId

```
public class ProjectId implements Serializable {  
    private int departmentId;  
    private int projectNo;  
  
    //Konstrukturen, equals, hashCode  
}
```

Socket

```
@ServerEndpoint("/...")  
@ApplicationScoped  
public class Socket {  
    Set<Session> sessions = new ConcurrentHashMap<>();  
}
```

Events:

- onOpen
- onMessage
- onError
- onClose

```
@OnOpen  
public void onOpen(Session session) {  
    sessions.add(session);  
    send(...);  
}  
  
@OnClose  
public void onClose(Session session) {  
    sessions.remove(session);  
}  
  
@OnError  
public void onError(Session session, Throwable throwable) {  
    sessions.remove(session);  
}  
  
@OnMessage
```

```
public void onMessage(String message, @PathParam("username") String username) {
    send()
}

public void send(Session session, Survey survey) {
    session.getAsyncRemote().sendObject(surv, sendResult -> {
    });
}

}
```

Hilfreiche SQL-Methoden

- null value handling = COALESCE(value, default)
- Cast datatypes = cast(ivd.trnDatetime as LocalDate) (LocalDateTime to LocalDate)
- eliminate duplicates = select DISTINCT c from...
- count, sum, avg, max, min,
- Document AS d WHERE :kauf MEMBER OF b.kaeufe
- SELECT new htl.model.Kauf()

Datumsgschichtl

```
LocalDateTime.parse(
    dateString,
    DateTimeFormatter.ofPattern("dd.MM.yyyy HH:mm:ss")
)
```

```
LocalDateTime jetzt = LocalDateTime.now();
LocalDate datum = jetzt.toLocalDate();
```

```
String s = neich.format(DateTimeFormatter.ofPattern("yyyy.MM.dd"));
```