

Criteria

Overview

- alternative way to query entities from our database
- allow complex queries to be created programmatically via the *Criteria* or *CriteriaQuery* interfaces
- simplifies writing dynamic queries
- typeasafe query - failure at compile time

Example

`select p from Player`

=>

```
CriteriaBuilder cb = em.getCriteriaBuilder();  
CriteriaQuery<Player> criteria =  
cb.createQuery(Player.class);  
Root<Player> root = criteria.from(Player.class);  
criteria.select(root);
```

Restrictions and Pagination

- Restrictions

```
Path<Integer> age = root.get("age");  
criteria.select(root).where(cb.between(age, 28, 30));
```

- Pagination

```
TypedQuery<Player> query = em.createQuery(criteria);  
query.setFirstResult(pageNumber * pageCount);  
query.setMaxResults(pageCount);
```