

Verbesserung

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Fehler 1

Charset UTF-8

Old

```
BufferedReader br = new BufferedReader(  
    new InputStreamReader(  
        getClass().getResourceAsStream("/") + racesFileName)  
    )  
);
```

New

```
BufferedReader br = new BufferedReader(  
    new InputStreamReader(  
        getClass()  
            .getResourceAsStream(  
                "/" + racesFileName),  
        StandardCharsets.UTF_8)  
    )  
);
```

Fehler 2

Fehlende Methode

```
@GET  
@Produces(MediaType.APPLICATION_JSON)  
@Path("raceswon")  
public List<Race> allRacesWonByTeam(@QueryParam("team") String team) {  
    List<Race> wonRaces = em.createNamedQuery("Result.wonRaces", Race.class)  
        .setParameter("TEAMNAME", team)  
        .getResultList();  
  
    return wonRaces;  
}
```

Fehler 3

Fehlende Methode

```
@GET
@Produces(MediaType.APPLICATION_JSON)
@Path("all")
public List<String[]> allRacesWonByTeam() {
    List<Driver> drivers = em.createNamedQuery("Driver.findAll", Driver.class)
        .getResultList();
    List<String[]> driverWithPoints = new LinkedList<>();

    for (Driver driver: drivers) {
        Long points = em.createNamedQuery("Result.allPoints", Long.class)
            .setParameter("ID", driver)
            .getSingleResult();
        driverWithPoints.add(new String[]{driver.toString(), "" + points});
    }

    return driverWithPoints;
}
```

Fehler 4

Wuerstelcode

Old

```
@NamedQueries({
    @NamedQuery(name = "Race.getById", query = "select r from Race r where r.id = :ID"),
    @NamedQuery(name = "Race.getByCountry", query = "select r from Race r where r.country = :COUNTRY")
})
```

New

```
@NamedQueries({
    @NamedQuery(
        name = "Race.getById",
        query = "select r from Race r where r.id = :ID"
    ),
    @NamedQuery(
        name = "Race.getByCountry",
        query = "select r from Race r where r.country = :COUNTRY"
    )
})
```