Testverbesserung Schauflinger

InitBean.java

alte readRacesFromFile

neu

```
BufferedReader br = new BufferedReader(
                new InputStreamReader(
                        getClass()
                                 .getResourceAsStream(
                                         "/" + racesFileName),
                        StandardCharsets.UTF_8)
        );
        try {
            br.readLine();
            String line;
            while ((line = br.readLine()) != null){
                String [] row = line.split(";");
                Race race = new Race(Long.parseLong(row[0]),
                        row[1],
                        LocalDate.parse(row[2], DateTimeFormatter.ofPattern(
"dd.MM.yyyy")));
                em.persist(race);
        } catch (IOException e) {
            e.printStackTrace();
        }
```

```
try {
     BufferedReader br = new BufferedReader(new InputStreamReader(getClass())
.getResourceAsStream(teamFileName)));
     br.readLine();
     String line;
     while ((line = br.readLine()) != null){
          String [] row = line.split(";");
     }
} catch (IOException e) {
     e.printStackTrace();
}
```

neu

persistTeamandDrivers

war nicht vorhanden

Driver.java

Annotation @NamedQueries vergessen

Result.java

Annotation @NamedQueries vergessen

```
@NamedQueries({
        @NamedQuery(
                name = "Result.getPointsSumOfDriver",
                query = "select sum(r.points) from Result r where r.driver = (select
d.id from Driver d where d.name like :NAME)"
        ),
        @NamedQuery(
                name = "Result.getWinner",
                query = "select re.driver from Result re where re.position = 1 and
re.race = (select ra.id from Race ra where ra.country like :COUNTRY)"
        ),
        @NamedQuery(
                name = "Result.wonRaces",
                query = "select re.race from Result re where re.position = 1 and
re.driver in (select distinct d.id from Driver d where d.team = (select t.id from Team
t where t.name like :TEAMNAME))"
        ),
        @NamedQuery(
                name = "Result.allPoints",
                query = "select sum(r.points) from Result r where r.driver = :ID"
        ),
})
```

Team.java

Annotation @NamedQueries vergessen

ResultEndpoint.java

Entitymanager hinzugefügt

```
@PersistenceContext
EntityManager em;
```

Client und Webtarget hinzugefügt

```
public static final String url = "http://vm90.htl-leonding.ac.at/results";
private Client client = ClientBuilder.newClient();
private WebTarget target = client.target(url);
```

read Results From Endpoint

```
Response response = this.target.request(MediaType.APPLICATION_JSON).get();
JsonArray payload = response.readEntity(JsonArray.class);
persistResult(payload);
```

persistResult

ResultsEndpoint.java

@Stateless wird nicht benötigt

```
@GET
public JsonObject getPointsSumOfDriver(@QueryParam("name") String name) {
    Long points = em.createNamedQuery("Result.getPointsSumOfDriver", Long.class)
            .setParameter("NAME", name)
            .getSingleResult();
    JsonObject jsonObject = Json.createObjectBuilder()
            .add("driver", name)
            .add("points", points)
            .build();
    return jsonObject;
}
    @GET
@Path("winner/{country}")
@Produces(MediaType.APPLICATION JSON)
public Response findWinnerOfRace(@PathParam("country") String country) {
    Long driverId = em.createNamedQuery("Result.getWinner", Driver.class)
                    .setParameter("COUNTRY", country).
                    getSingleResult().
                    getId();
    Driver winner = em.find(Driver.class, driverId);
    return Response.ok(winner).build();
}
```

diese Klasse aus Zeitproblemen nicht gemacht

eigene Methoden:

```
@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;
   }
   @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;
   }
```