Reading Records from the Database

Bryan Hansen

DIRECTOR OF SOFTWARE DEVELOPMENT

@bh5k

cRud

JdbcTemplate

RowMapper

SimpleJdbcCall

Demo

Select All

Modify Test

RowMapper

Create Read

Modify Create

Read All

```java
List <Ride> rides = jdbcTemplate.query("select * from ride", new
RowMapper<Ride>() {
    @Override
    public Ride mapRow(ResultSet rs, int rowNum) throws
SQLException {
        Ride ride = new Ride();
        ride.setId(rs.getInt("id"));
        ride.setName(rs.getString("name"));
        ride.setDuration(rs.getInt("duration"));
        return ride;
    }
});
```

Modify Test

```java
@Test(timeout=3000)
public void testCreateRide() {
    RestTemplate restTemplate = new RestTemplate();

    Ride ride = new Ride();
    ride.setName("Bobsled Trail");
    ride.setDuration(33);

    restTemplate.put("http://localhost:8080/ride_tracker/ride", ride);
}
```

RowMapper

```java
public class RideRowMapper implements RowMapper<Ride> {

  @Override
  public Ride mapRow(ResultSet rs, int rowNum) throws
SQLException {
    Ride ride = new Ride();
    ride.setId(rs.getInt("id"));
    ride.setName(rs.getString("name"));
    ride.setDuration(rs.getInt("duration"));
    return ride;
  }
}
```

Modify Create Ride

```java
KeyHolder keyHolder = new GeneratedKeyHolder();
jdbcTemplate.update(
  new PreparedStatementCreator() {
    public PreparedStatement
createPreparedStatement(Connection con) throws SQLException {
      PreparedStatement ps =
        con.prepareStatement("insert into ride (name,
duration) values (?,?)", new String[] {"id"});
        ps.setString(1, ride.getName());
        ps.setInt(2, ride.getDuration());
        return ps;
  }
},keyHolder);
```

Summary

Select All

Update Tests and Controller

RowMapper

PreparedStatementCreator

SimpleJdbcInsert