**Workshop**

Topics:

1. Threads
2. ThreadSafety
3. Serialization
4. Reflection

Prerequisites:

1. IntelliJ IDEA
2. Java SDK 7

Thread Exercises:

Create a new java project with IDEA and JDK 7.

1. In the new project create a ro.teamnet.zerotohero.threads.thread\_creation package.
2. In thread\_creation package two new classes. One class should implement the Runnable interface and one extend the Thread class. In both classes create a new run() method. Create two new threads that execute the run method of the two classes.
3. Create a new thread and change its priority and its name.
4. Create a thread safe counter and two threads that increment that counter to the value of 10;
5. Create an example that uses the wait/notify mechanism.
6. Create an example of object serialization by writing an object stream to a file and then deserialize it from that file.

Serialization Exercises:

1. Create an example of object serialization (see workshop documentation).

Reflection

1. Create a new package ro.teamnet.zerotohero.reflection.api
2. Create a new package ro.teamnet.zerotohero.reflection.model
3. In api package, create 2 annotations: @Table & @Column.
4. In model package, create a new class Employee annotated with @Table.
5. In Employee, add specfic attributes, annotated with @Column.
6. Create your mini ORM (generate insert statements).