JPA training

1. Setup
   * Clone project from Github
   * Import project to Eclipse
2. Input, project skeleton
   * xml-input-hungary.xml
   * pom.xml:
     1. spring-context
     2. spring-oxm
   * com.epam.jpatraining.xml.domain
   * com.epam.jpatraining.xml.dao
   * Spring config
     1. AppConfig
     2. XMLProcessorConfig
   * App
3. JDBC solution
   * pom.xml
     1. spring-jdbc
   * H2DatabaseServer, h2-server.sh
   * DataSourceConfig
   * create-database.sql
   * MapService
4. Introduce JPA
   * pom.xml
     1. spring-orm
   * JpaConfig.java
   * Create entites, dao
   * Update services: see snippet
5. Lifecycle callback / DateTime API
   * Audit function
     1. Implement Audit, AuditListener
     2. @EntityListeners(AuditListener.class)
   * Talk about datetime API
6. Lazy init problems, lifecycle, @Transaction
   * Find by name
7. Transient fields
   * Full name
8. Query examples
   * See snippets
9. Inheritance
   * Create sub-classes
10. @Version
    * Create update function
    * Run it twice on different threads
11. @Repository
    * Make a bad query
    * Add annotation
12. Export program
    * Show freemarker config
    * Show freemarker template