*Please, complete the following task.*

***The total mark is 7:  5 points for regular homework and 2 points for the extra mile.***

**Create a Spring-based module, which handles event ticket booking.**

Based on the attached source code model:

1. Implement three service classes:

UserService

EventService

ticket service

which should contain user, event, and booking-related functionality accordingly. Create an implementation of the BookingFacade interface which should delegate method calls to services mentioned above.

**(0.5 point)**

     2. Configure spring application context based on the XML config file.**(0.5 point)**

     3. Implement DAO objects for each of the domain model entities (User, Event, Ticket). They should store in and retrieve data from a common in-memory storage - java map. Each entity should be stored under a separate namespace, so you could list particular entity types. **(0.5 point)**

Example for ticket - map entry {"ticket:" à {}}.

E.g. {"ticket:12345" à {"id" : 12345, "place" : 23, ......}}

    4. Storage should be implemented as a separate spring bean. Implement the ability to initialize storage with some prepared data from the file during the application start (use spring bean post-processing features). Path to the concrete file should be set using property placeholder and external property file.**(1 point)**

    5. DAO with storage bean should be inserted into services beans using auto wiring. Services beans should be injected into the facade using constructor-based injections. The rest of the injections should be done in a setter-based way. **(1 point)**

    6. Cover code with unit tests. **(0.5 point)**

    7. Code should contain proper logging. **(0.5 point)**

    8. Create several integration tests that instantiate the Application Context directly, lookup facade bean and perform some real-life scenario (e.g. create user, then create event, then book ticket for this event for the user, then cancel it). **(0.5 point)**

Extramile:

**2 points**

* Use "p" namespace to define properties Use SLF4J API for logging, configure Spring to use SLF4J, and add some Spring logging output to the common application log.