

CS 548/SOC 542—Enterprise Software Architecture and Design

Assignment Five—Domain Driven Design—Rubric

5 Report

5 Factory Pattern:

1. 5 Factory objects for providers.

15 Repository (DAO) Pattern:

1. 10 PatientDAO and ProviderDAO
 - a. All DB query and update logic is in DAOs (no exceptions!)
2. 5 TreatmentDAO in provider entities
 - a. Declared @Transient
 - b. Setter callback pattern, set when patient/provider is persisted/retrieved
 - c. (Cache the TreatmentDAO in a patient or provider – only suggest)
 - d. (Cache the EntityManager in a patient or provider DAO – only suggest)

15 Aggregate Pattern:

1. -15 if treatments are returned from patients or providers
2. Use Visitor pattern to provide client access to treatments, in patient and provider (-10 if they export entity object through visitor)

40 Operations

1. 4 Add a patient (complete PatientDAO.addPatient)
2. 4 Get patient (PatientDAO.getPatient)
3. 4 Get patient by patient id (PatientDAO.getPatientByPatientId)
4. 4 Add a provider (ProviderFactory.createProvider and ProviderDAO.addProvider)
5. 4 Get provider (ProviderDAO.getProvider)
6. 4 Get provider by NPI (ProviderDAO.getProviderByNPI)
7. TreatmentFactory methods for radiology and surgery
8. 4 Provider.addTreatment and Patient.addTreatment:
 - a. set forward and backward pointers in both
 - b. provider addTreatment calls patient addTreatment
9. 4 Patient.getTreatmentIds and Provider.getTreatmentIds
10. 4 Patient.exportTreatment and Provider.exportTreatment

20 Testing (video)

Demonstrate creating patient, provider, treatments, and querying treatments..

Testing in test bean, output should be written to the log.