

## CS 548—Enterprise Software Architecture and Design

### Assignment Three—Object Relational Mapping—Rubric

-100 if you are not using the following, as specified in provided POM files and Dockerfiles:

- Java 17
- Jakarta Persistence 3.1 (Eclipselink 4)

-25 if you are using `java.util.Date` which is obsolete.

#### 1. Video: 40

- ☐ 40 Video and client log file showing addition of all types of entity (including all types of treatment) and inspection of database tables in IntelliJ Database tool window.
- 40 if no log file from running client application

#### 2. All entities: 30

- ☐ 5 @Id @GeneratedValue Declare primary keys
- ☐ 15 Declare indexes for UUID keys, **declare to be non-nullable and unique**
- ☐ 10 @OneToMany relationship patient and provider to treatment (including mappedBy attribute set), @ManyToOne from treatment to patient and provider entities

#### 3. Treatment entities: 15

- ☐ 5 @Inheritance, use join strategy or table-per-subclass strategy 10
  - Discriminator column is *not* required except for single-table strategy
- ☐ 5 @OneToMany for followup treatments
- ☐ 5 Radiology, Physiotherapy dates: @ElementCollection

#### 4. Database DDL: 10

- ☐ 10 SQL code for creating database (from IntelliJ)

#### 5. Completed rubric: ☐ 5

Total: