SE 554: Enterprise component architecture

Project

## Objective:

Demonstrate your ability to create a comprehensive application that features all of the features learned during this course.

## Functionality/Milestones:

### Submission:

* Guideline for Milestone submissions (see syllabus for Milestone due dates), it does not have to be function complete but each of the areas are recommended area of focus.
  + Milestone 1: Project ideas and general scope
  + Milestone 2: Persistence and Session
  + Milestone 3: Session and MQ
  + Final submission: Web Services
* Grade Breakout
  + Functionality
  + Documentation
  + Milestone deliverables showing progress
    - \*\*\*No late submission accepted\*\*\*

Requirements for resource definition

Data Source: jdbc/se554db

Pub/Sub: jms/se554pubsub

Point to point: jms/se554p2p

## Prior session’s project ideas

1. Rental – Movie or Book

Item (Movie/Book) – Inheritance

Transaction

Customer

1. School – Registration

Student

Course

Registration

## Grading Rubrics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **19-20** | **11-18** | **6-10** | **0-5** |
| **Persistence** | Research and implementation of advanced concepts not covered in class: Including but not limited to   * EntityListeners * Validation | Association and inheritance relationships | At least 5 tables with  association or inheritance relationships | 2 tables with basic annotation (ie just @Entity)  Contains compiler errors or no implementation  Missing ways to create table |
| **Session** | Research and implementation of advanced concepts not covered in class   * Singleton * CDI | All services defined with transaction demarcation to support persistence and at least 1 with security implementation | Few services defined with transaction | 2 session beans with basic annotation (ie just @SessionBean)  Contains compiler errors or no implementation |
| **Asynchronous** | Research and implementation of advanced concepts not covered in class such as implementation of one of the message construction from EIP | point to point and pub/sub leveraging XML for complex message | Simple point to point or pub/sub | Contains compiler errors or no implementation |
| **Web Services** | Research and implementation of calling one of public web service (REST or SOAP) related to your project. | REST and SOAP implementation with more than just basic annotation | REST or SOAP implementation with more than just the basic annotation | REST or SOAP implementation with just the basic annotation (ie just @WebService)  Contains compiler errors or no implementation |
| **Paper**  **(2pt deduction for every missed MS delivery)** | Follows the major areas and no major gaps:   * Requirements (Use cases model/scenarios) * Design (Sequence and deployment diagram) * Incorporation of EIP concepts * Decision matrix | 1 or 2 sections are not complete or minor gaps between implementation and documentation | Less than 2 sections not complete with MAJOR gaps between implementation and documentation | Major gaps in documentation and implementation |