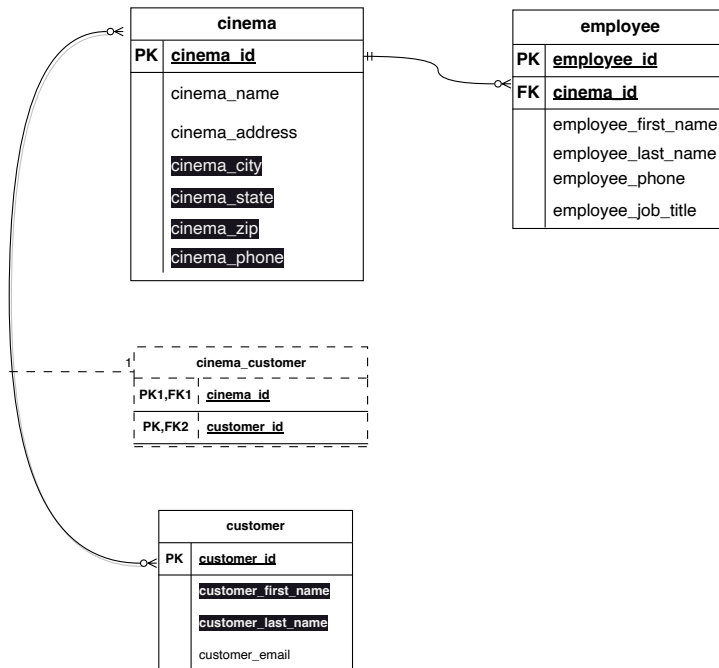


GitHub: <https://github.com/quezchristina/Cinema>

Youtube: <https://youtu.be/TtlcmGUCtzg>



Spring Boot Final Project

Over the next three weeks (Weeks 16-18), you will be implementing or “building” the approved project that you proposed to your instructor or to your mentor. Remember, you have three full weeks for implementation.

The Project will implement a JPA RESTful Web API with full CRUD (Create, Read, Update and Delete) operations on a MySQL database.

This Spring Final Project is worth 800 points, and accounts for 25% of your final course grade.

Overview

The Project will implement a JPA RESTful Web API with full CRUD (Create, Read, Update and Delete) operations storing data in a MySQL database.

This Final Project spans the final few weeks of the bootcamp, and is due Saturday midnight of Week 18:

1. Week 15: Design and approval
2. Weeks 16-18: Three full weeks for implementation.

is worth 800 points, and

Instructions

**** How to Get Started -- Guidelines (first steps to start your Final Project):**

1. Create your project in Eclipse (or an IDE of your choice) -- basic package structure for all of the layers (e.g. controller, service, dao/repository, entity, errorhandling, etc.).
2. Create the entry point for your project.
3. Implement your simplest entities first (no dependencies), and get them working in all layers.
4. Use pet-parks, dog-rescue, or pet-store as a guide, and build upon what you have already done!
5. UnitTesting is encouraged, but not required.

Use Swagger, Postman or AdvancedRestController (ARC) to test your Web API Endpoints.

**** How to Submit your Spring Boot Final Project -- In Week 18**

*** Create a GitHub Repository for your Final Project**

1. Push all of your code to your Final Project Repository (Repo).
2. Push any relevant .SQL files to your Repo.
3. Push a PDF of your ERD to your Repo.
4. Include any additional documentation for your project.
5. Add link to Text Box Submission

*** Create a Showcase Video (Public Link)**

Create a video, up to five minutes max, showing and explaining how your project works with an emphasis on the portions you contributed. This video should be done using screen share and voice over. This can easily be done using Zoom, although you don't have to use Zoom, it's just what we recommend. You can create a new meeting, start screen sharing, and start recording. This will create a video recording on your computer. This should then be uploaded to a publicly accessible site, such as YouTube, Dropbox, or Google Drive. *MAKE SURE THE LINK YOU SHARE IS PUBLIC*. If it is not accessible by your grader, your project will be graded based on what they can access. The link should be pasted in the submission text box after the GitHub repo link. *REQUIRED: PUBLIC link to video, and GitHub repo link with everything listed above!*

Final Project Requirements

1-person Web API Spring Boot Project:

- Database design which contains at least 3 entities and 3 tables
- Contains all CRUD operations (Create, Read, Update & Delete)
- Each entity should have at least one CRUD operation
- AND: one or more entities need to have all 4 CRUD operations (Create,

Read, Update & Delete).

- Contains at least 1 one-to-many relationship
- Contains at least 1 many-to-many relationship with one or more CRUD operations on this relationship

• Required: REST Web API Server tested through Swagger, Postman or AdvancedRestClient (ARC) or a front-end client.

Group Web API Spring Boot Project (max 3 people):

- Database should have at least two tables per group member + one.
- Contains 2 entities per person, plus 1 entity done together at the beginning to solidify the structure expected for the project.
- Each member of the group is required to code their entities top to bottom -- entity, controller, service, & dao/repository.
- Each member of the group is required to:
 1. Implement CRUD operations on each of their entities
 2. Implement all 4 CRUD operations (Create, Read, Update, & Delete) on at least one of their 2 entities

- • Contains at least 1 one-to-many relationship
- • Contains at least 1 many-to-many relationship with one or more CRUD operations on this relationship

• Required: REST Web API Server tested through Swagger, Postman or AdvancedRestClient (ARC) or a front-end client.

Final Reminders

NOTE:

- • In a Group Project, it is required to document which team member is responsible for which entities. The easiest way to accomplish this is to comment the code that each team member writes. Since each team member is required to code an entity from top to bottom, add an Author comment at the top of each file. This can be accomplished in the Video that each person is required to submit and as a comment in the code.
- • It is additionally required for each member of the group to record and submit their own submission video (See *Video Instructions for Group Projects* above).
- • This project should be written implemented like one of the following projects: pet-parks, dog-rescue or pet-store.
- • Use JPA to create a REST Web API Server.
- • Test your REST API Server using Postman, Swagger, or

AdvancedRestClient (ARC).

- • Web API Documentation Resources:

<https://blog.api.rakuten.net/best-practices-for-writing-api-documentation/>
<https://www.altexsoft.com/blog/api-documentation/> <https://swagger.io/blog/api-documentation/best-practices-in-api-documentation/>

Nothing needs to be submitted to the Learning Management System (LMS) until Week 18.

You will submit your final project in **Week 18: Final Project under *Week 18 Final Project Submission***
