

Movie Review Platform

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Chapter 1

Assignment 1

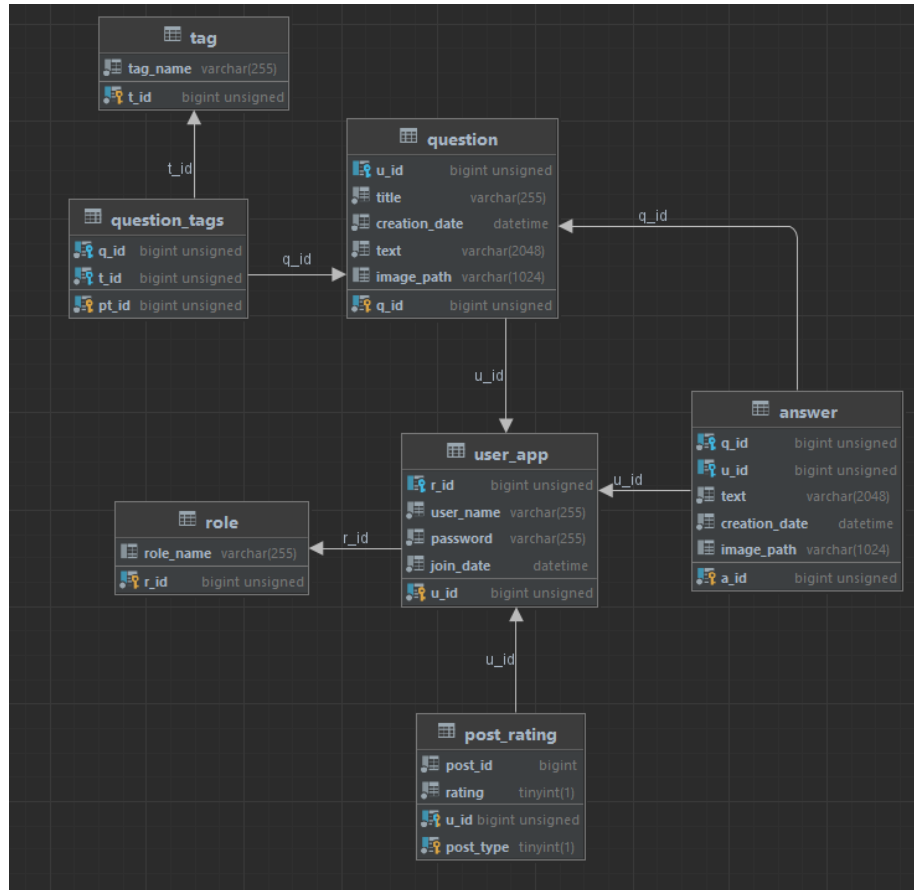
1.1 Assignment Objective

The objective of this assignment was to complete a big portion of the backend for the final assignment.

For this assignment I:

- Designed a database
- Created a spring boot project that uses a layered architecture
- Mapped each entity in the project to a database table
- Implemented CRUD operations on Questions, Answers and users

1.2 Database design



The database was design keeping in mind the following problem requirements:

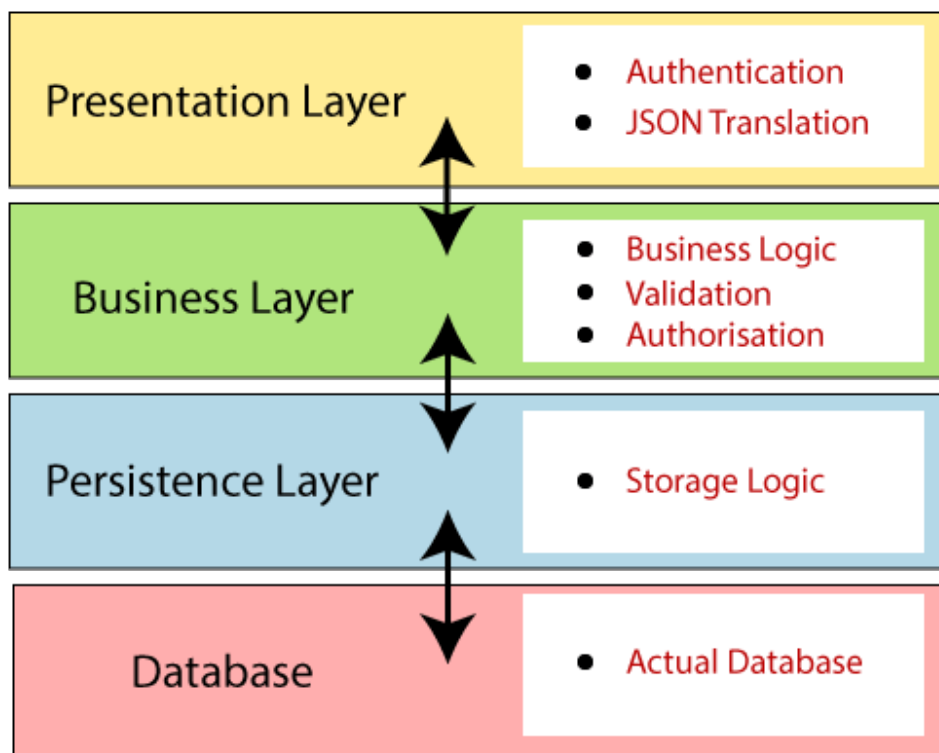
- One question can have multiple tags
- A user has a certain role (extra feature)
- A user can post multiple questions
- A user can post multiple answers to the same question
- A user can either like or dislike a question/answer

The last requirement is implemented using the post_rating table this table contains:

- post_id: identifier for a question/answer
- rating: -1 dislike, 1 for like
- u_id: identifier for the user
- post_type: 0 for question, 1 for answer

1.3 Architecture

Design using a layer architecture usually encountered in spring boot applications:



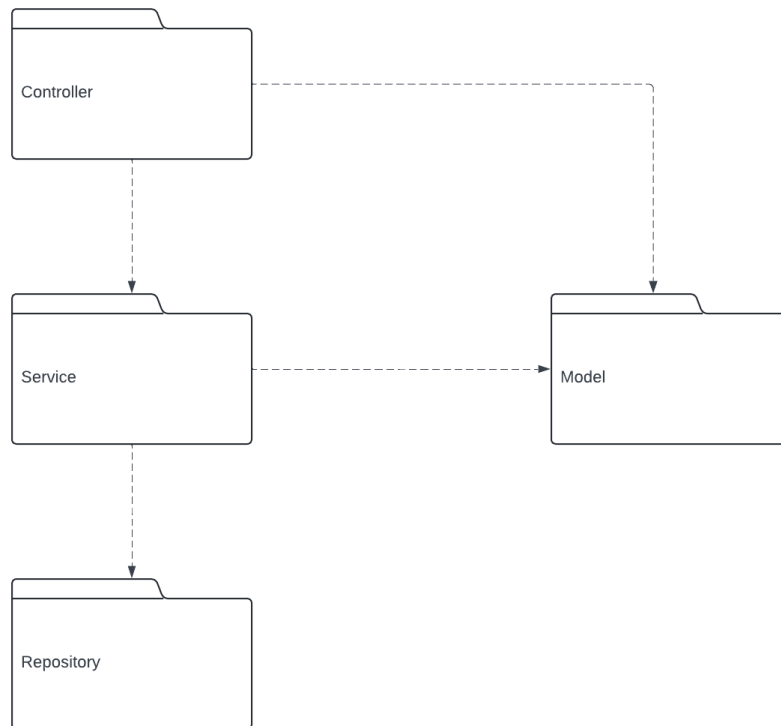
1.4 Package diagram

Presentation layer is implemented in the controller package

Business layer is implemented in the service package

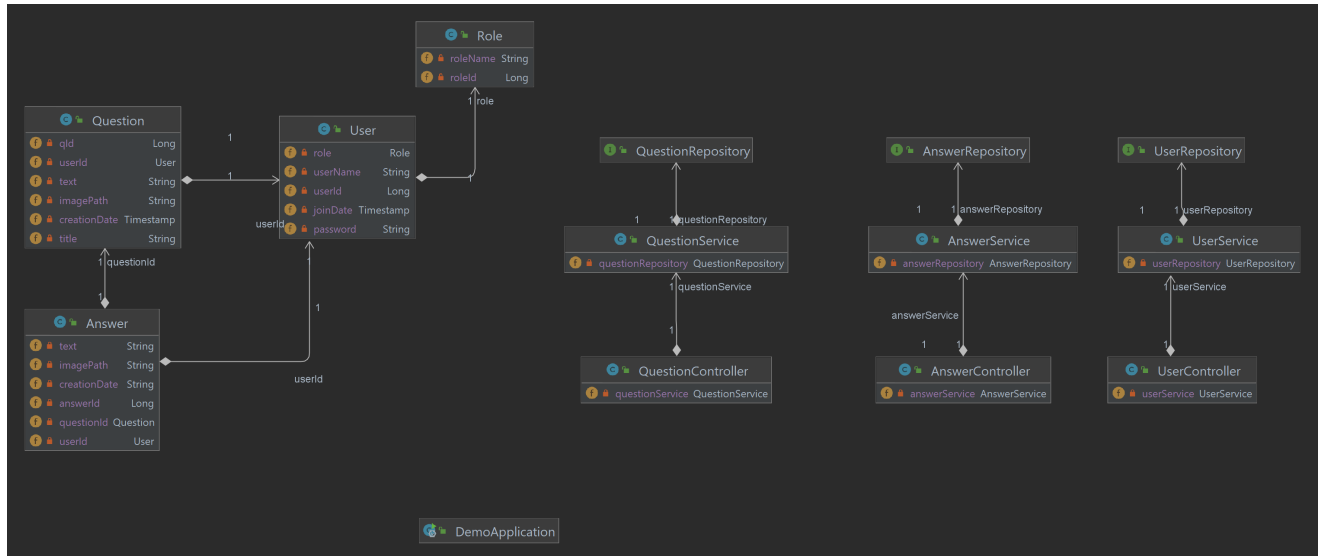
Persistence layer is implemented in the repository package

For the database I used a MySQL database



1.5 Class diagram

Diagram of the classes implemented so far



1.6 CRUD endpoints

Create:

- /questions/addQuestion
- /answers/addAnswer /users/addUser

Read:

- /questions/getAll
- /answers/getAll
- /users/getAll

Update:

- /questions/updateQuestion
- /answers/updateAnswer
- /users/updateUser

Delete:

- /questions/deleteQuestion?id=?
- /answers/deleteAnswer?id=?
- /users/deleteUser?id=?

1.7 Testing

Simple set of tests in postman that test if each of the operations were successful. The update/delete tests work on the same values that were added in the create tests.

The screenshot displays the Postman interface with the 'CRUD Q&A&U' collection expanded. The 'PUT Update Answer' test is selected, and its results are shown in the main panel. The test passed successfully, as indicated by the green bar and the 'PASS' status.

Source	Environment	Iterations	Duration	All tests	Avg. Resp. Time
Runner	Stack Overflow	1	1s 641ms	10	52 ms

CRUD Q&A&U - Run results

Ran today at 11:41:56 · [View all runs](#)

All Tests Passed (10) Failed (0) Skipped (0)

PUT Update Answer
http://localhost:8080/answers/updateAnswer

PASS Successful PUT request

PUT Update User
http://localhost:8080/users/updateUser

PASS Successful PUT request

DELETE Delete Question
http://localhost:8080/questions/deleteQuestion?id=3

PASS Successful DELETE request