Assignment 1

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1.Intro

My project resembles a simplified version of the popular website StackOverflow: it allows you to access to qualitatives and very well curated batch of answers. First of all, it allows you to filter answers who fit with your points of interest and to filter questions/answers by popularity (upvotes/downvotes). Also, a user can post a question and other users can respond.

2. Tech stack

Backend: Java Spring

Frontend:Angular

Data Base: MySQL

3.Use case

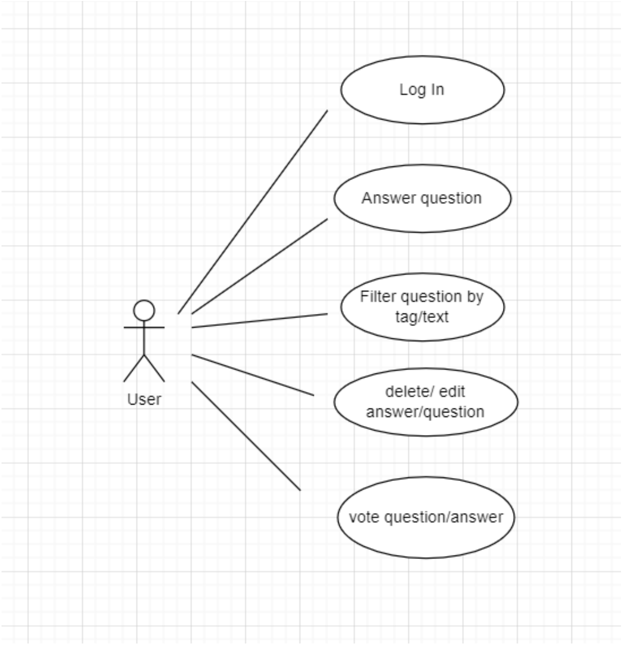
Use case: Log into account.

Primary actor: Regular User

Main success scenario: An actor types in a username and a password. If a valid account corresponds to the username and the password matches, the user is logged in.

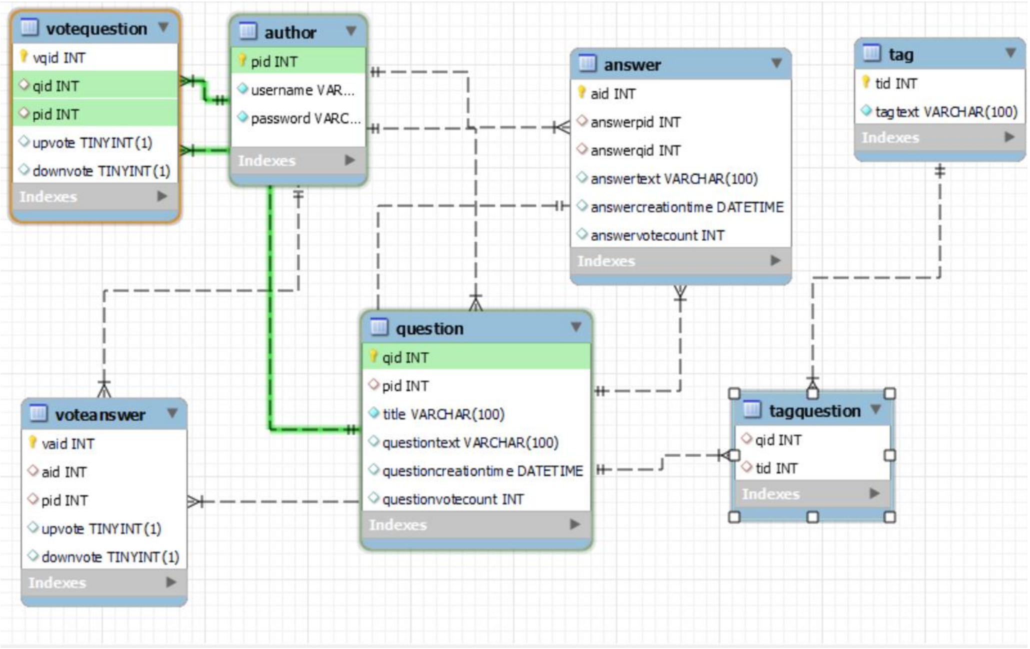
Extensions: If there is no valid account or the username and the password do not match, the user cannot be logged in.

Use case diagram:



4.Diagrams & testing

Data base diagram:



For the testing part, I used Postman. As a testing case, I will describe how to ask a question.

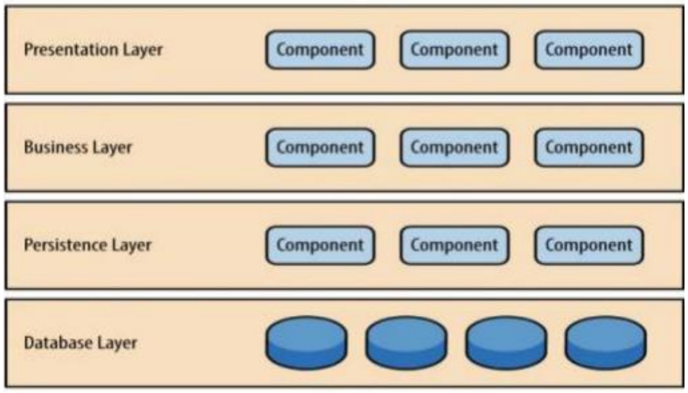
http://localhost:8090/askQuestion?pid=2&tagtext=bug

As parameters, I have the person's id and the question's tag. I also have to pass the question's body containing the text and the title.

```
{
  "title": "bug question"
  "questionText": "I have a bug"
}
```

5.Architecture

Layered architecture patterns are n-tiered patterns with horizontal layers for the components. This is the most common way for creating software, and it is intended to be self-contained. This means that while all of the components are connected, they are not dependent on one another.



The presentation layer : It contains all categories related to the presentation layer.

The business layer : It contains business logic.

The persistence layer : It's used for handling functions like object-relational mapping

The database layer : This is where all the data is stored.

6.Bibliography

https://priyalwalpita.medium.com/software-architecture-patterns-layeredarchitecture-a3b89b71a057