SD Assignment 3

Goina Radu group: 30432

Contents

1		gnment 3 2 Assignment objective		
2	Intr	3	3	
3	Fea	ure 1	5	
	3.1	Requirements	5	
	3.2	Implementation)	
4	Fea	ure 2		
	4.1	Requirements	7	
	4.2	Implementation		
5	Feature 3			
	5.1	Requirements)	
	5.2	Implementation		
6	Bonus feature 1			
	6.1	Requirements	L	
	6.2	Implementation		
7	Bonus feature 2			
	7.1	Requirements	2	
	7.2	Implementation		
8	Cor	clusion 16	3	

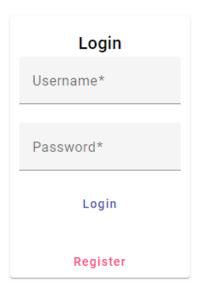
Assignment 3

1.1 Assignment objective

The objective of this assignment was to connect the BE and the FE and implement all the features out application should have

Intro

The authentication part of my website is implemented using Spring Security, and users receive authorization through JWT Bearer tokens.



If the user does not have an account already he can create one by clicking the register button which will redirect him to the register page.

Once the register button is clicked the request will be sent to the backend via the /users/addUser endpoint.

The passwords are stored encypted in the database.

Register
Username*
Email*
Password*
Confirm Password*
Register

Feature 1

3.1 Requirements

Feature one had the following requirements

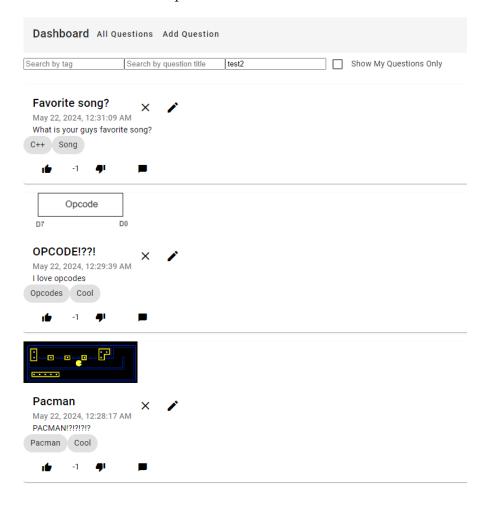
- Users should be able to as questions and assign tags to them
- $\bullet\,$ Newest questions must be displayed first
- Questions should be able to be deleted by their author
- User should be able to filter questions

Questions are retrieved from the backend by calling the /questions/getAll end-point.

The images are retrieved from the backend by calling the /images/image.path endpoint, where image.path is the path for each image. This is done using the help of an angular service, the same service is responsible for fetching the images for the answers

Filtering is done in the FE

A user is able to delete ONLY their question, BE checks are implemented that prevent the deletion of other questions.



Feature 2

4.1 Requirements

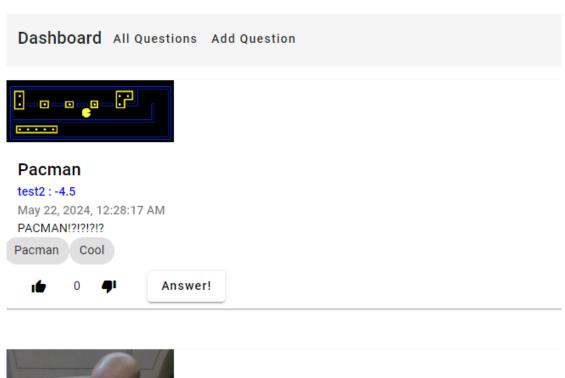
Feature two had the following requirements:

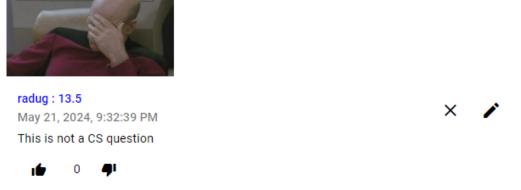
- Users should be able to add answers to a question
- Users should be able to delete their own answer

Answers are retrieved form the BE by calling the /answers/question/id endpoint where id is the current question's ID.

Same method of fetching images as for the questions.

BE checks are implement to assure that an answer can only be edited/deleted by their author.





Feature 3

5.1 Requirements

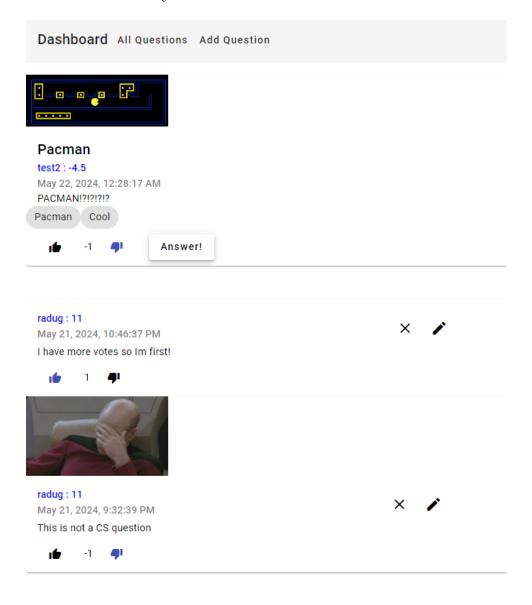
Feature three had the following requirements:

- Users should be able to Like/Dislike any question/answer
- \bullet The vote count must be displayed for every question/answer
- answers should be sorted by vote count

The user's vote for each question is fetched via the /user/userQuestionRating/questionId endpoint, and for each answer via the /user/userAnswerRating/answerId endpoint.

The overall vote count also fetched from the BE.

The answers are sorted by vote count in the FE.



Bonus feature 1

6.1 Requirements

Bonus feature one requires that a score be computed for each user according the the following rules

Users gain points when

- Their question is voted up (2.5 points per vote)
- Their answer is voted up (5 points per vote)

Users lose points when

- Their question is voted down (-1.5 points per vote)
- Their answer is voted down (-2.5 points per vote)
- They down vote an answer of another user (-1.5 point)

6.2 Implementation

The overall score is received from the BE via the getUserScore/userId endpoint. The computation is done in an SQL query. Implementation can be seen in the image above

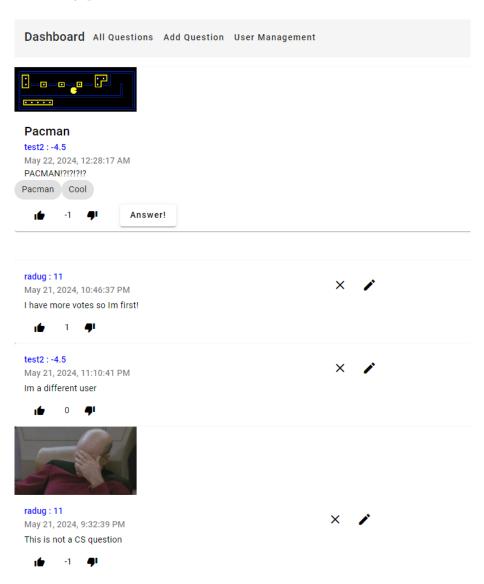
Bonus feature 2

7.1 Requirements

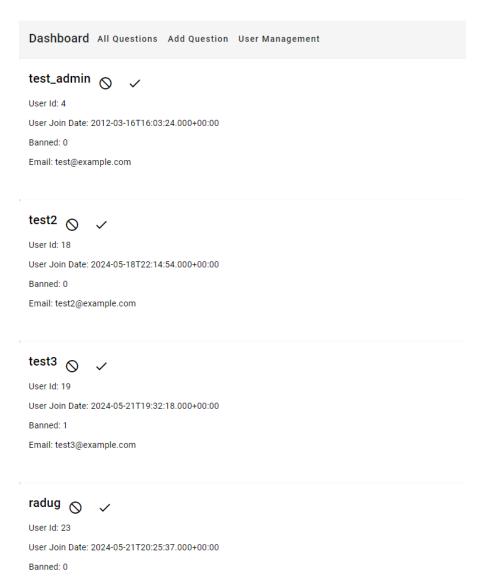
The second bonus feature has the following requirements:

- Add admins, who are users with special privileges
- An admin should be able to edit/remove any question/answer
- An admin should be able to ban/unban users
- Banned users should be able to see that they are banned when trying to log in.
- Banned users should not be able to do anything on the website
- Banned users must receive an email when they are banned

Admins ignore the BE constraints for updating/removing post so they can update/remove any post.

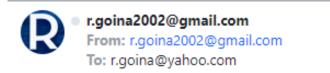


Moreover admins have access to the user management page, Where they can ban/unban users.



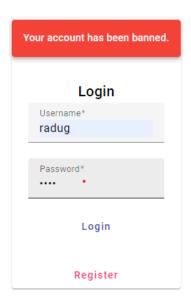
Once a user is banned they will receive an email

Totally legit stackoverflow BAN



You got BANNED from totally legit stackoverflow

And if they try to log in they will receive the following message.



Being banned will prevent the user from receiving the authorization token, therefor they are unable to retrieve/post anything from the BE.

Conclusion

To conclude, I successfully created a StackOverflow-like website that implements all the required and bonus features.