InstiOverflow Software Lab

INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

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1 Introduction

InstiOverflow is a webapp similar to stackoverflow exclusively for IITB. In this anybody from IITB can post question by selecting appropriate Subject like Machine Learning, Software Lab, Systems etc and others can answer it.

In this user have to select subject from the list provided in dashboard, and then he/she will see Questions, Tags of particular question, Number of Answers in that particular question, Number of Comments and Time of when it was posted. He/She will also see Add Question Button Using this he/she can post questions of that particular subject.

Questions/Answers/Comments can be deleted only by the person who posted it. Others cannot delete the questions posted by someone else. This project will facilitate peer to peer discussion which is lacking in this online semester.

2 Motivation

We have observed that the most lacking thing in this online semester is peer to peer discussion. Though there exists Moodle discussion forum, but there is no peer to peer discussion going on there. The person who asked the question expects TAs or the Professor to answer. So its not facilitating peer to peer discussions. Another solution was to use whatsapp but it has a huge drawback that after certain period of time, the context of discussion changes to something else.

Peer to Peer discussion is important because it helps to understand the concepts better and also helps us to see the problem with multiple dimensions.

Due to this online semester, we have faced that there is lack of discussion among peers. Our project aims at creating a global discussion forum in which students throughout the institute can participate and this will motivate discussion between peers

3 Dependencies

Back-end

- handling server requests: 'Node.js with Express.js Framework'
- Database: 'MySQL'
- API tested using: 'POSTMAN'

Front-end

- Front-end Framework: 'React.js (with Redux and react-router)'
- Styling: 'SASS' and 'BOOTSTRAP'

4 Using InstiOverflow

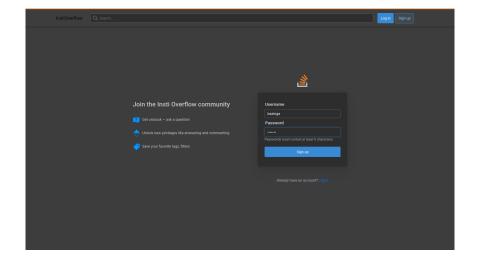
To use Instioverflow you need to install the following dependencies using following commands in ubuntu

- Install node and npm ...
 - sudo apt install nodejs
 - node -v (check version of node)
 - sudo apt install npm
 - npm -v (check version of npm)
- Install mysql ...
 - sudo apt update
 - sudo apt install mysql-server
- setup mysql user and server ...
 - sudo mysql

- mysql>ALTER USER 'root@localhost' IDENTIFIED WITH mysql_native_password BY mysql@123; (change password of root mysql@123 in this case)
- mysql>SET GLOBAL sql_ mode=(SELECT REPLACE(@@sql_ mode, 'ONLY_ FULL_ GROUP_ BY',"));
- mysql>flush privileges;
- mysql>exit
- mysql -u root -p
- Run these commands then -
 - npm install (Run this command in UI, API and instiOverflow folder)
- Run 'instiOverflow.sql' file in the mysql client
 - mysql -u root -p < instiOverflow.sql (user-root)
- Start the servers
 - npm run instioverflow

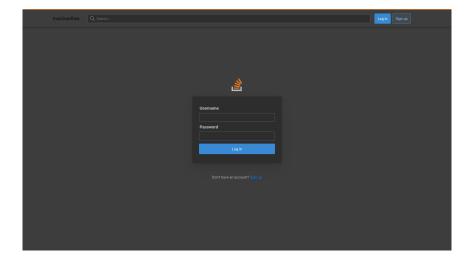
4.1 SignUp

Enter username and password to signup



4.2 SignIn

Enter username and password to signin



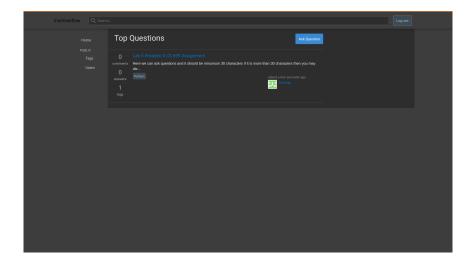
4.3 Dashboard

Click on any subject

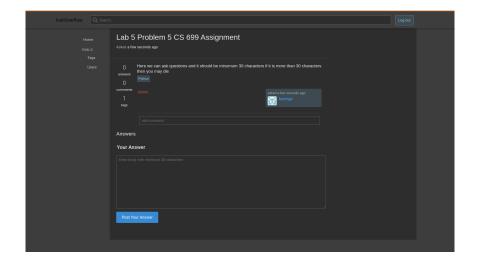


4.4 View Questions

Select Any Question

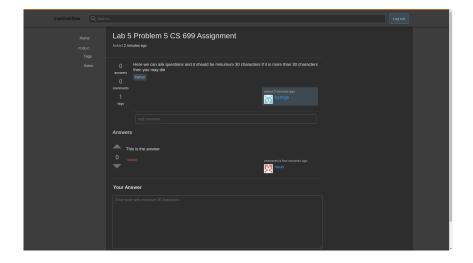


4.5 View Particular Question



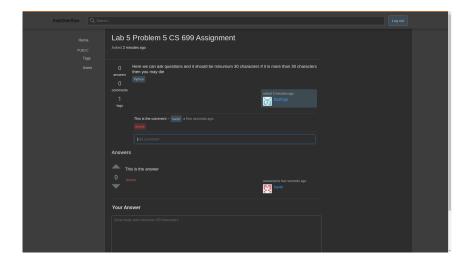
4.6 Answer

Enter Your Answer



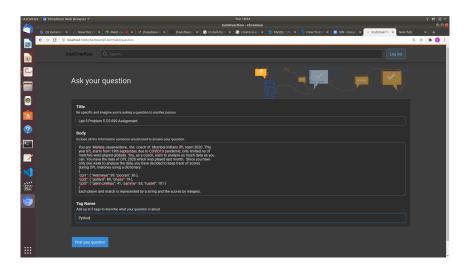
4.7 Comment

You can also comment on question or answer

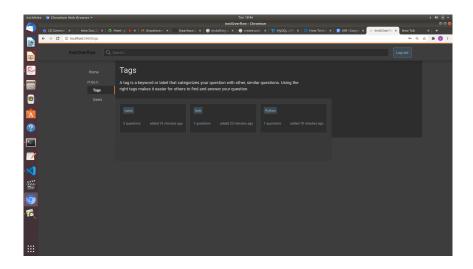


4.8 Add Question

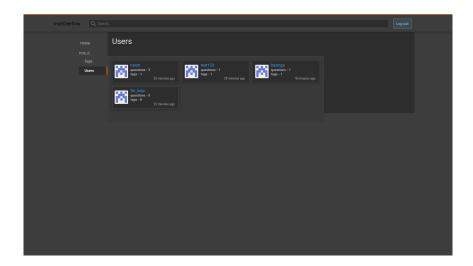
You can Add Question by filling all the required fields



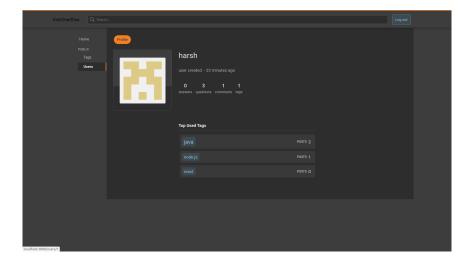
4.9 View Tags



4.10 View All Users



4.11 View Profile



5 Future Scope

As of now there is no such global discussion forum for our institute so our project can be extended so that it could be used by the students of our Institute.