DBMS ASSIGNMENT 2 : CQA REPORT

Overall System Architecture

This website relies on JAVA for most functions as Java is platform-independent. HTML is used for frontend of the webpages. Frontend pages are :

- login/register page

- home page

- My home page

- Question page

Java is used for controllers, interceptors, services, DAO, Events.
Spring Boot is one of the backend framework. Spring Boot helps create apps that aren't tied to a specific platform and that can run locally on a device without an internet connection or other installed services to be functional.
Data of user's feed, posts, answers, personal messages and details are stored in sql databasel. Mysql is used for database as it is open source and robust.
Mybatis automates the mapping between SQL databases and objects in Java. The mappings are decoupled from the application logic by packaging the SQL statements in XML configuration files.
Redis is used as data-structure store used as cache.

Summary

Webpage has a login/register page. After signing in home page is displayed where recent questions and answers are displayed. Users can upvote or downvote a post if the answer to given question is suitable. Users can also message eachother personally.

Webpage can be accesed without login but such users cannot upvote/downvote and cannot use messaging feature though.

A user can answer a question posted by other user. "My home" is a page where users can see the question they posted. A home button is present which helps a user to navigate to home page from other pages. Search bar allows user to search posts related to searched word.
Date and time of publication of post is displayed with the post. No.of followers of a user can also be seen.

Languages

- JAVA : Most of the functional aspect of the website is made using java. Application layer involving authorization, posting and commenting are done using java.

- XML

- HTML : Webpages displayed are made using HTML.

Contributions

- Backend : Ritvik Sai Chippa & Nishanth Bhoomi

- Frontend : Burra Vishal Mathews

- Connectivity : Nunsavath Sree Harsha