

DBMS-II

Assignment-2

Group Members:

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Languages Used:

1. On Server-Side: Django (python3)
2. Frontend: HTML, CSS, Bootstrap(api), JavaScript/JQuery

Architecture:

System is built using the django framework on the server side. When a user requests an url from the browser, the server checks the validation of the session. If it's already a logged in user then it redirects to the home page and performs actions according to url. If a session is not found then it redirects to the login page where either the user can login through credentials and get a session or a new user can create an account. Users can search through multiple tags for posts and can go through answers of posts. Also users can answer particular posts which will be stored in the psql database with proper attributes. Users can edit/delete posts written by him/her that will also be updated in the database.

For login users have to give username, user-id, password as input Then on server it checks for user id and username from the user table in the database and matches the password from the same table. For search of posts by tags, it uses pattern matching queries from psql. It finds posts from the posts table in the database where at least one of the given tags is included. For edit and delete, view in django takes the id of the post as an argument from the url which the user wants to edit/delete. It searches for a post of given id from the table and updates it accordingly.

One extra table named v is created in the database which has post id and votes of post as columns. Used to show upvotes of posts.

For front-end Bootstrap api is used for styling and jQuery is used for javascript. Also for autocomplete feature, inbuilt javascript api is used. Tags are given to html pages which are used as source for autocomplete.

Contribution:

1. Pradeep Mundlik - Complete server side (backend) programs written in django. All views and models written in django. DBMS queries used for selecting posts by tags using pattern matching, update/delete of posts, adding new users, authenticating old users while login.
2. Shreyas Wankhede - Front end programming for login page and create new user page. Understanding the structure of tables in the database and their relations.
3. Mouktika Cherukupalli - Frontend structure and styling for webpages.
4. Sathvika Marri - Frontend structure and styling for webpages.