

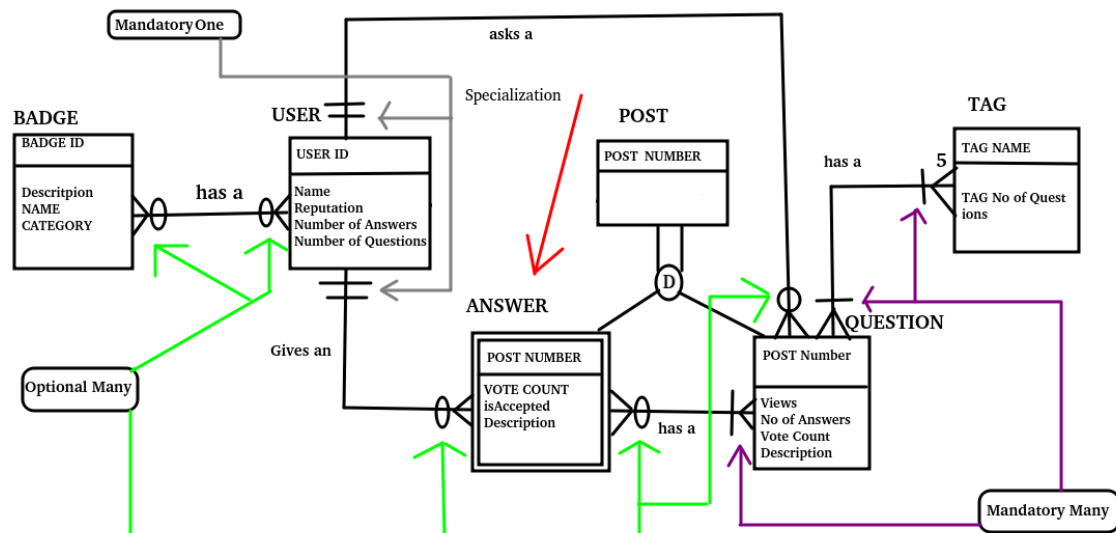


DBT PROJECT REPORT

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Reg No: 4044-FBAS/BSCS/F18

Project Title: Stackoverflow Management System

Project EERD:

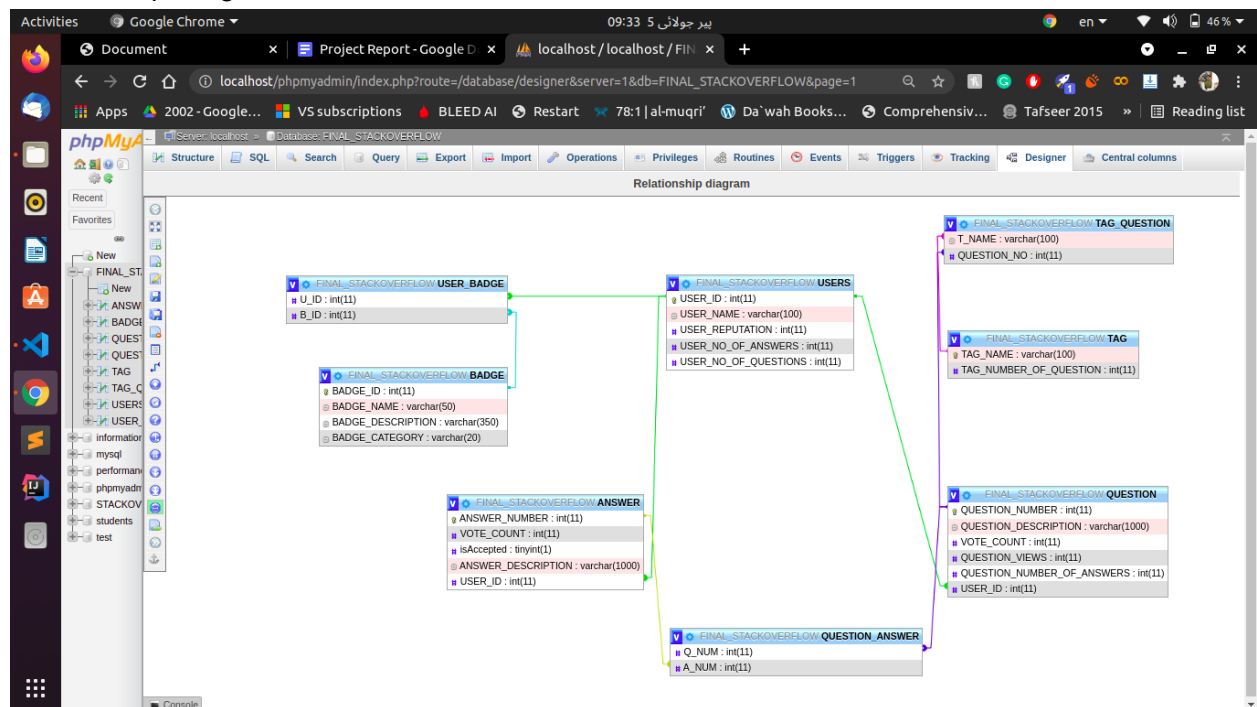


Database Design in MYSQL:

The screenshot shows the phpMyAdmin interface for the database 'FINAL_STACKOVERFLOW'. The 'Structure' tab is active, displaying a list of 8 tables: ANSWER, BADGE, QUESTION, QUESTION_ANSWER, TAG, TAG_QUESTION, USERS, and USER_BADGE. Each table entry includes icons for Browse, Structure, Search, Insert, Empty, and Drop. Below the table list, a 'Filters' section is visible, followed by a 'Check all' checkbox and a 'With selected:' dropdown. At the bottom, there is a 'Create table' button and a 'Number of columns: 4' input field.

Table	Action	Rows	Type	Collation	Size	Overhead
ANSWER	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
BADGE	★ Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
QUESTION	★ Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	32.0 KiB	-
QUESTION_ANSWER	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	48.0 KiB	-
TAG	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
TAG_QUESTION	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	48.0 KiB	-
USERS	★ Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
USER_BADGE	★ Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	48.0 KiB	-
8 tables	Sum	6	InnoDB	utf8mb4_general_ci	256.0 KiB	0 B

Relationship Diagram in MYSQL



Web Application SETUP

Backend:

Built using Flask, a microframework in Python Programming Language for web servers.

Flask_MYSQLDB was used for database connection of Python flask with mysql

Note: Flask is not a automated webapp making like wordpress, infact it is like PHP where we have to hardcode all the web application. Pondering over application code will make it clear.

Front End:

HTML, CSS, bootstrap, and jinja templates were used.

Code is uploaded in ZIP File.

To run the code:

- 1) Install Python
- 2) Install Flask, FLask_MYSQLDB
- 3) Install Pandas, BeautifulSou[
- 4) For Windows: set FLASK_APP=app.py
- 5) For Linux: export FLASK_APP=app.py
- 6) flask run

Project Structure

Project_Folder

----- Templates

-----All Html PAGES

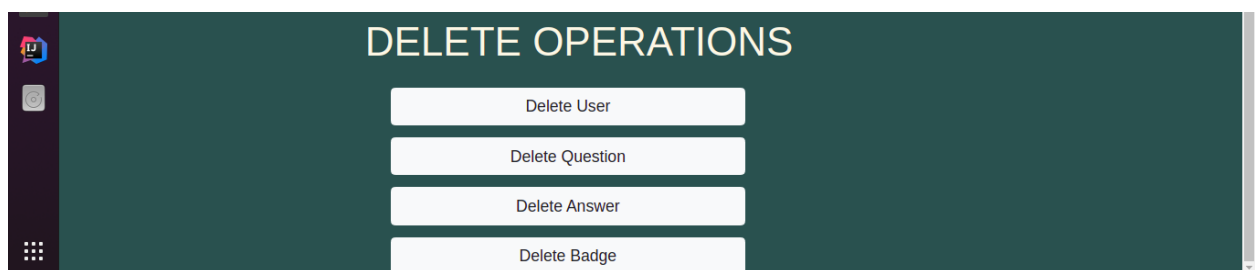
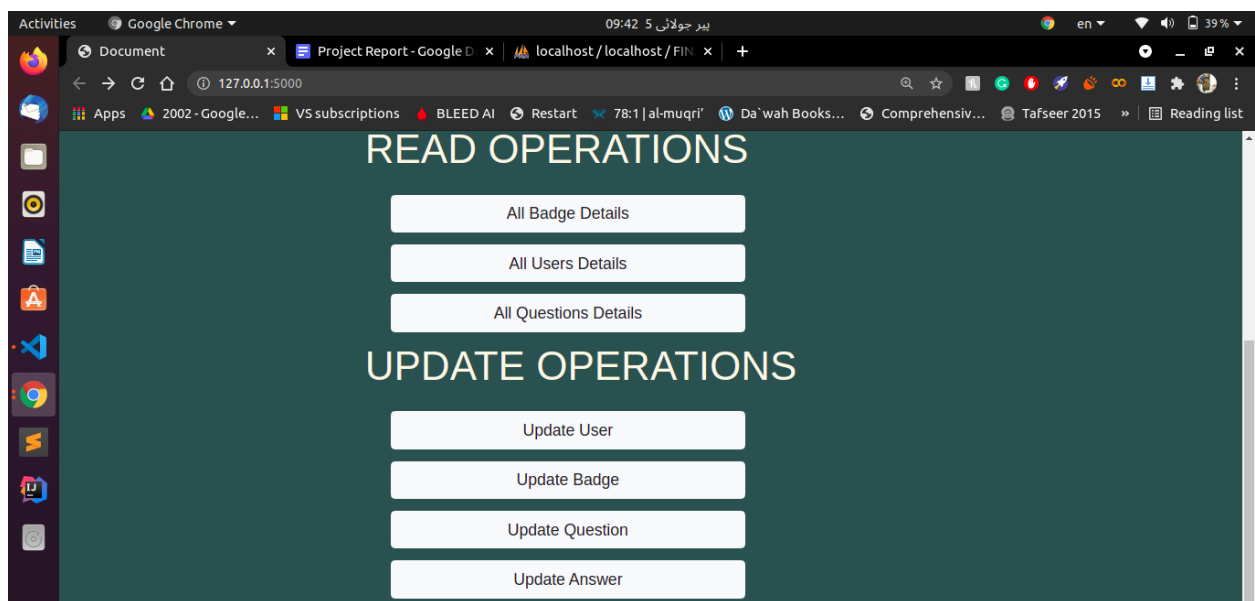
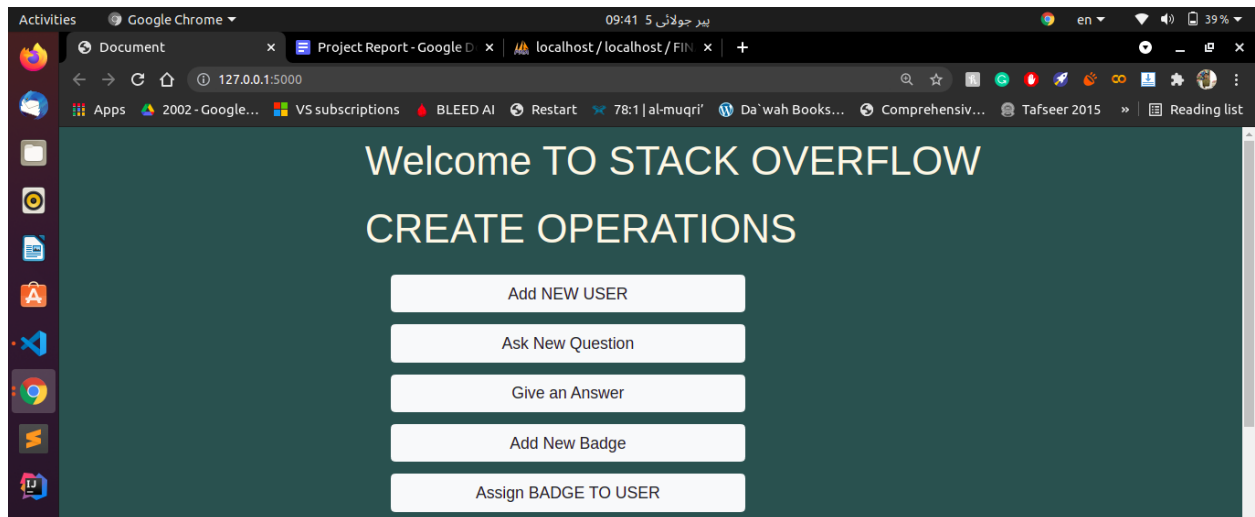
----- Static

-----All CSS/JS Code

----- app.py (Main Python file for server side code)

Screenshots of web app

Home PAGE



Input OPERATIONS

- INPUT USER

A screenshot of a web browser window displaying a form titled "Input for New User" with the subtitle "Enter your details". The form is set against a dark teal background. It contains four input fields: "First Name", "Reputation", "Number of Answers", and "Number of Questions". A "Submit" button is located at the bottom right of the form area. The browser's address bar shows the URL "127.0.0.1:5000/input/user". The top of the browser window shows the time as 09:42 and the date as 5 July.

Input for New User
Enter your details

First Name

Reputation

Number of Answers

Number of Questions

Submit

- Input QUESTION

A screenshot of a web browser window displaying a form titled "Enter The Details of the Question". The form is set against a dark teal background. It contains two input fields: "Question Details" and "User Details". The "User Details" field is a dropdown menu currently showing "TEST USER 2 with ID 6". An "Add New Question" button is located at the bottom left of the form area. The browser's address bar shows the URL "127.0.0.1:5000/input/question". The top of the browser window shows the time as 09:43 and the date as 5 July.

Enter The Details of the Question

Question Details

User Details

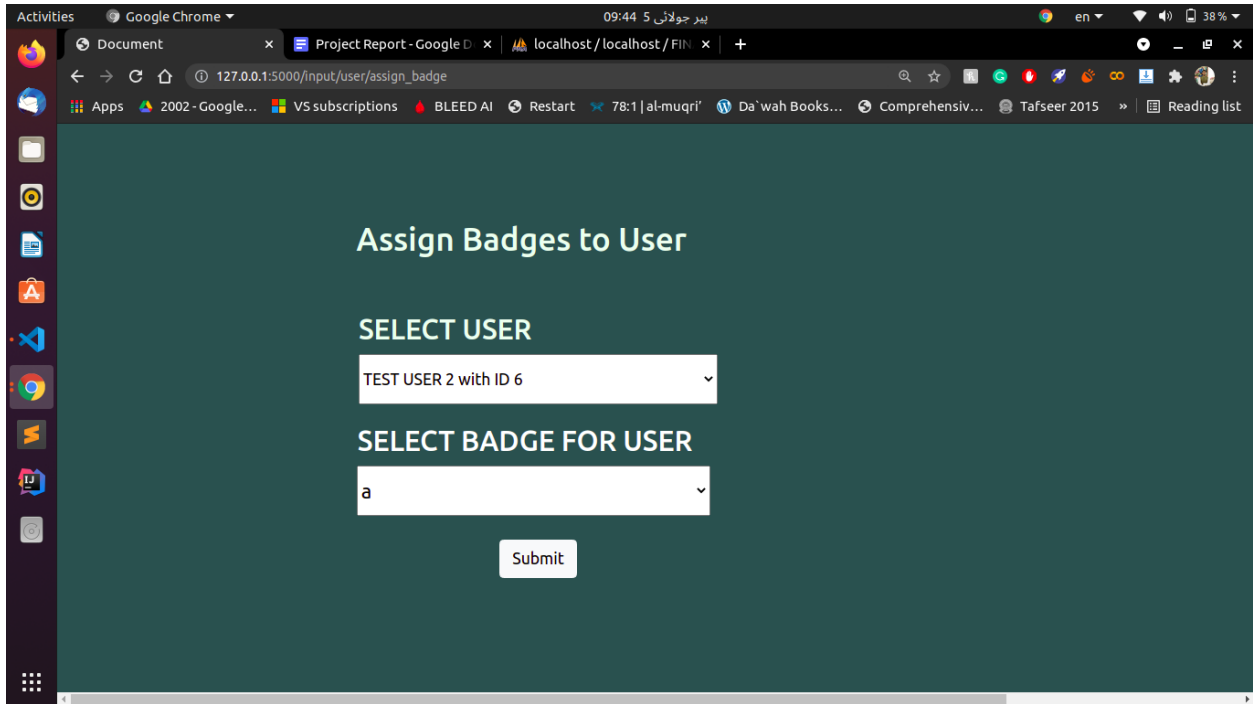
Add New Question

- Input Answer

A screenshot of a web browser window displaying a form titled "Give new Answer". The browser's address bar shows the URL "127.0.0.1:5000/input/answer". The form has a dark teal background. It contains three input fields: a dropdown menu for "Choose Question" with the selected value "TEST QUESTION ABC by USER with ID 3", a text input field for "Write Answer", and another dropdown menu for "Choose Your ID and Name" with the selected value "TEST USER 2 with ID 6". A "Submit" button is located at the bottom of the form. The browser's taskbar and address bar are visible at the top, showing various open tabs and the system clock.

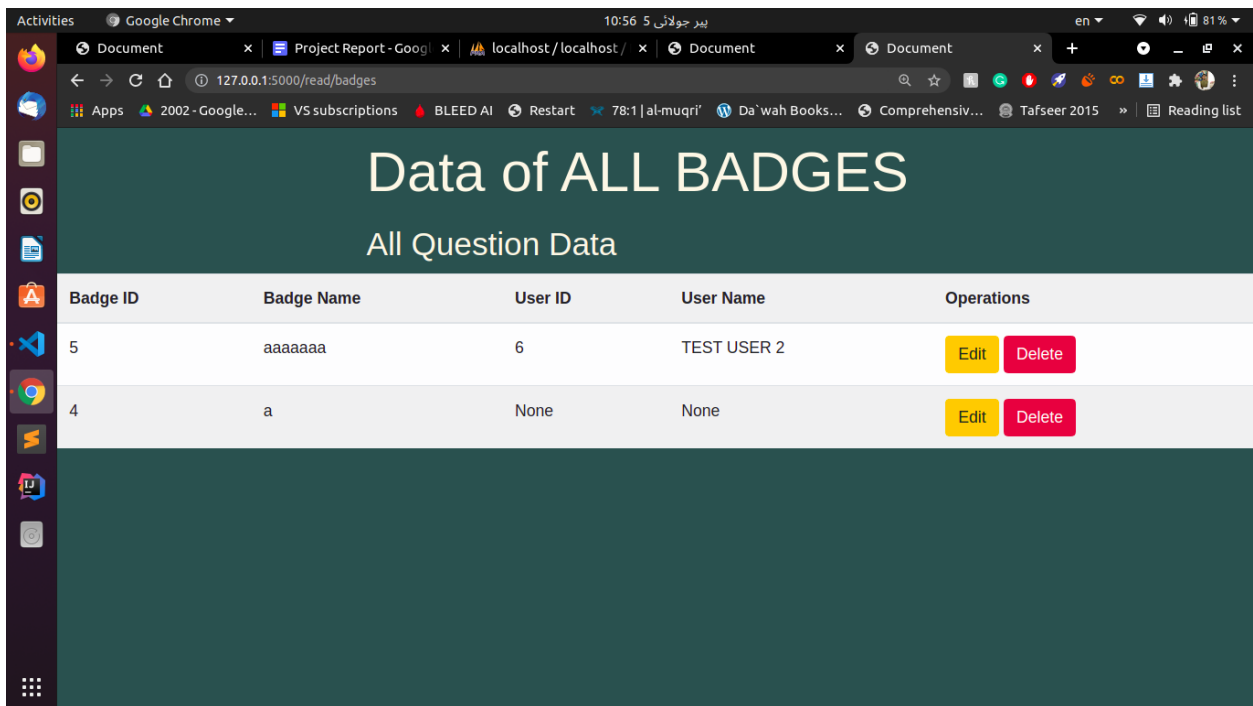
- Input Badge

A screenshot of a web browser window displaying a form titled "ADD NEW BADGE". The browser's address bar shows the URL "127.0.0.1:5000/input/badge". The form has a dark teal background. It contains three text input fields: "Badge Description", "Badge Name", and "Badge Category". A "Submit" button is located at the bottom of the form. The browser's taskbar and address bar are visible at the top, showing various open tabs and the system clock.



Read Operations

- Read Badge



- Read USERS

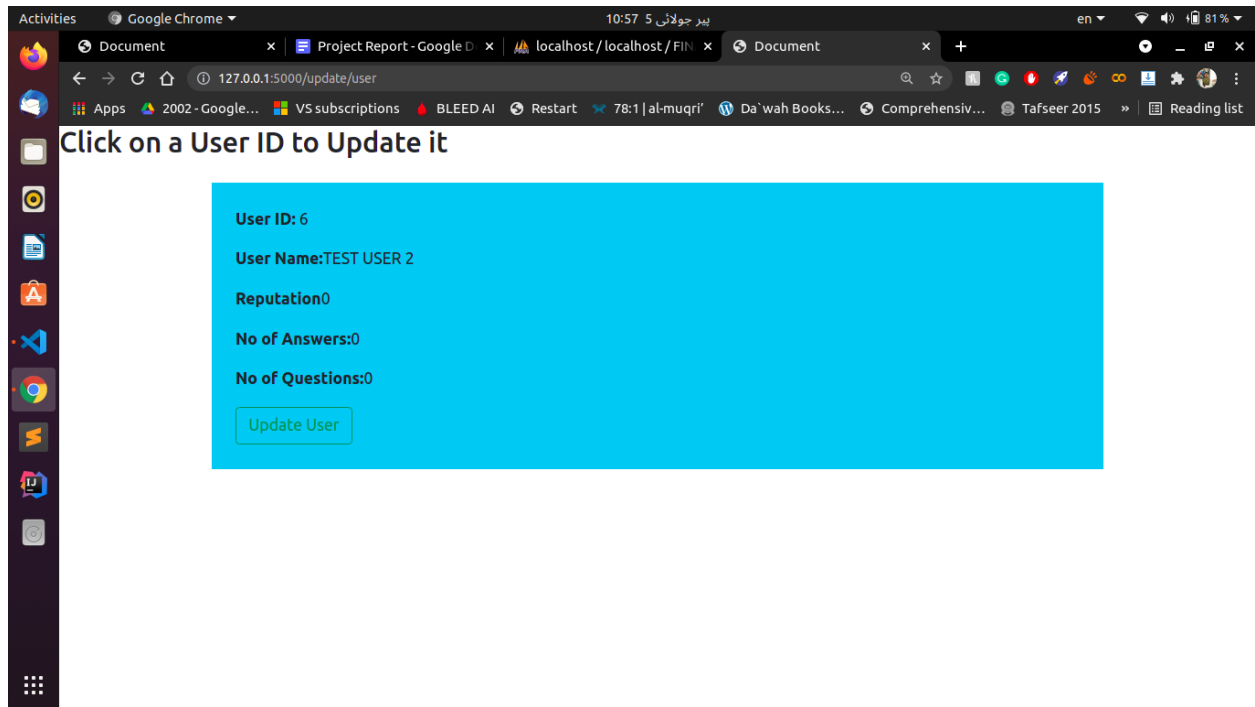
User ID	User Name	User Reputation	User Number of Answers	User Number of Questions	Operation
6	TEST USER 2	0	0	0	Edit Delete

- Read Question

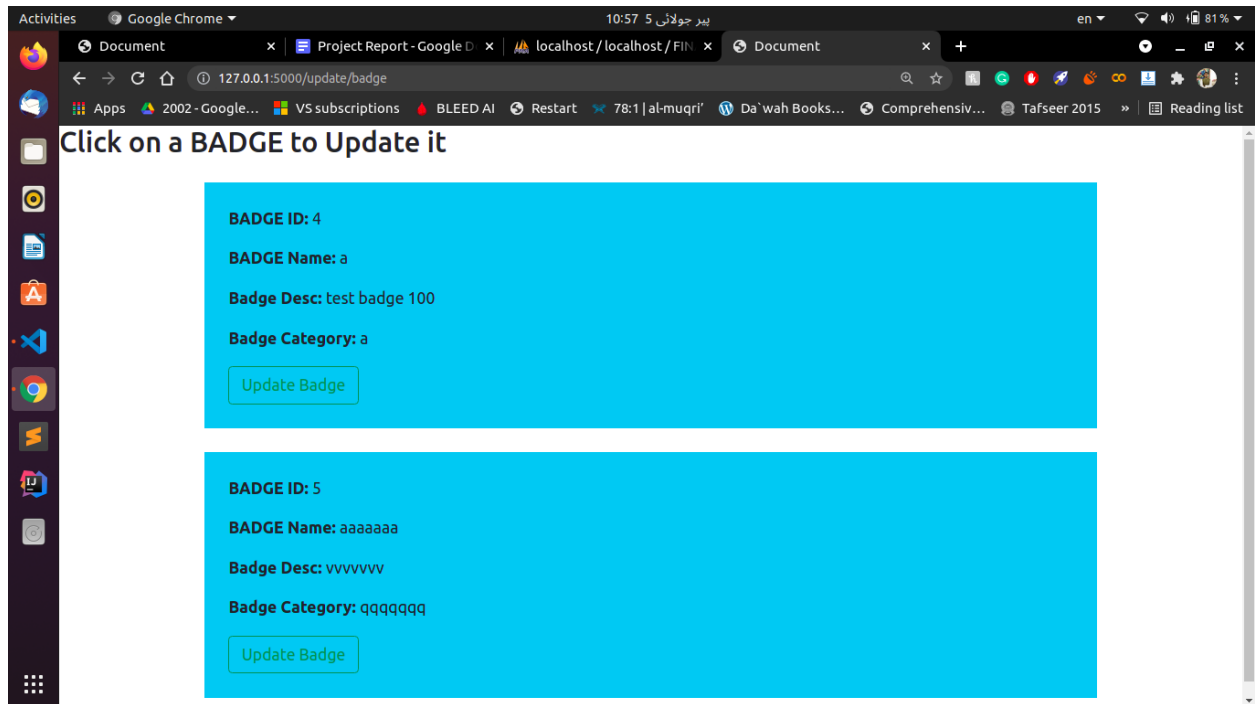
Question ID	Question Description	Question VoteCount	Question Views	Asked by(USER ID)	Number of Answers
3	TEST QUESTION ABC	0	0	6	0

Update Operations

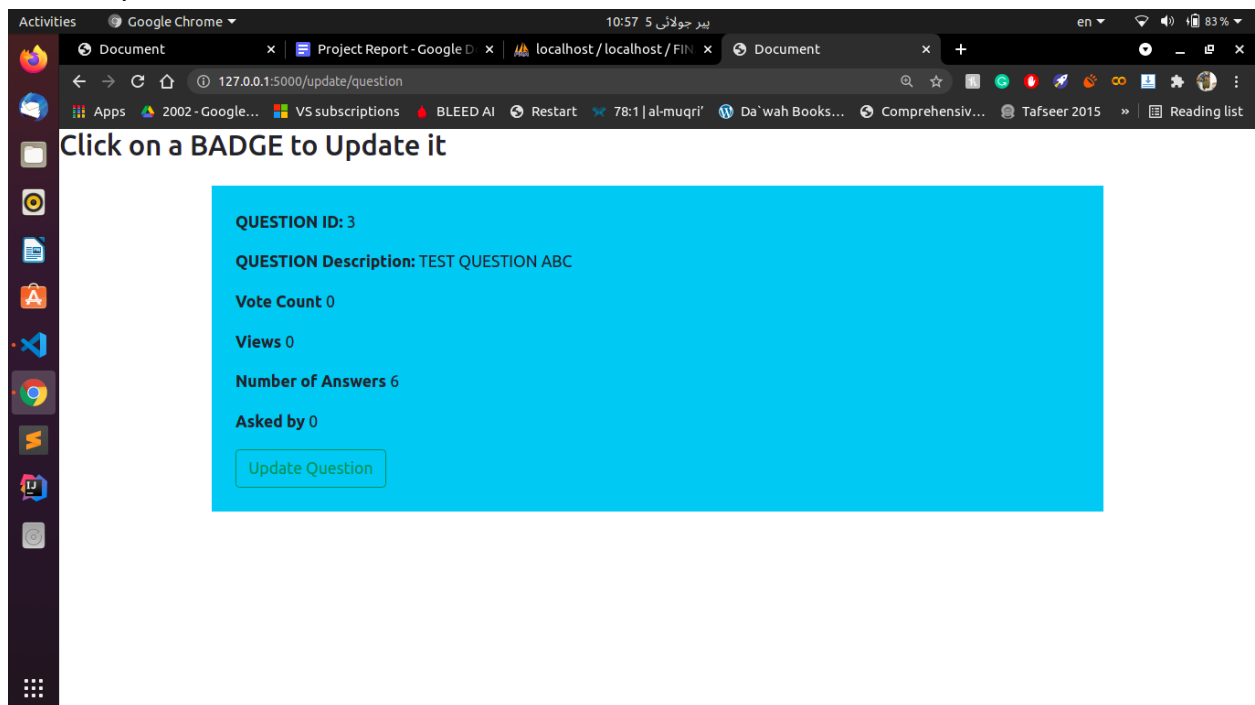
- Update USER(DESIGN NOT FINALISED YET)



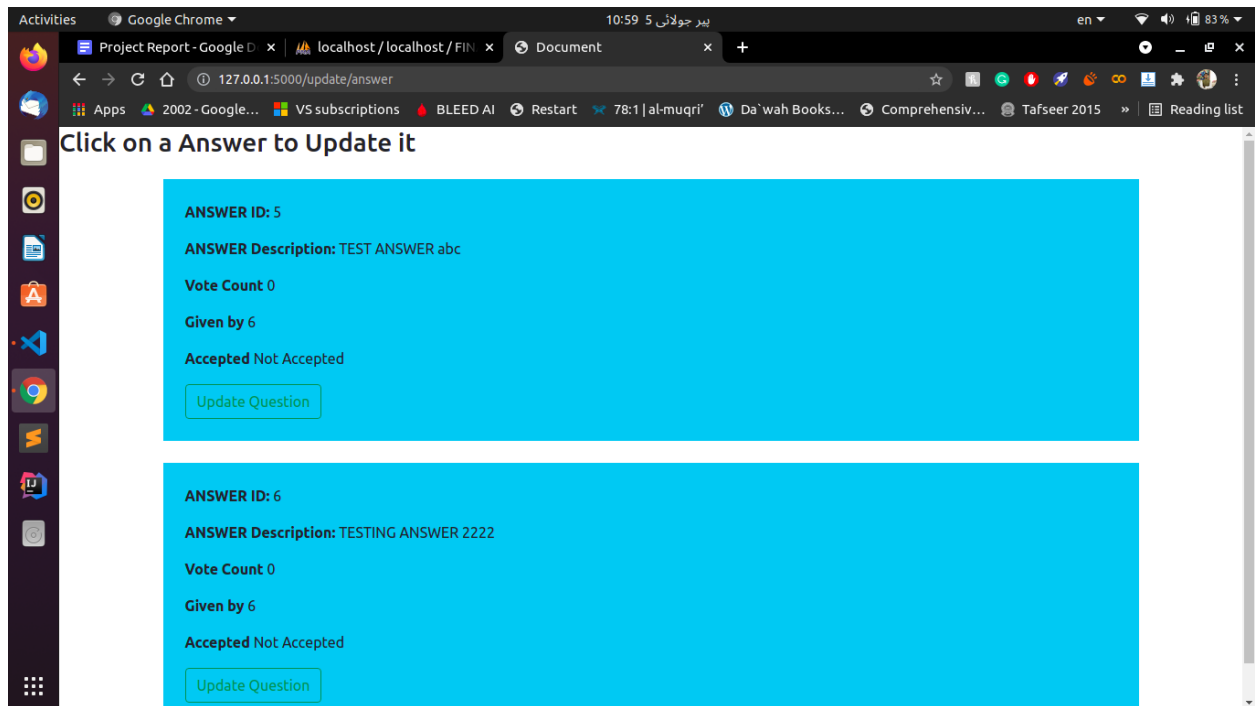
- Update Badge



- Update Question

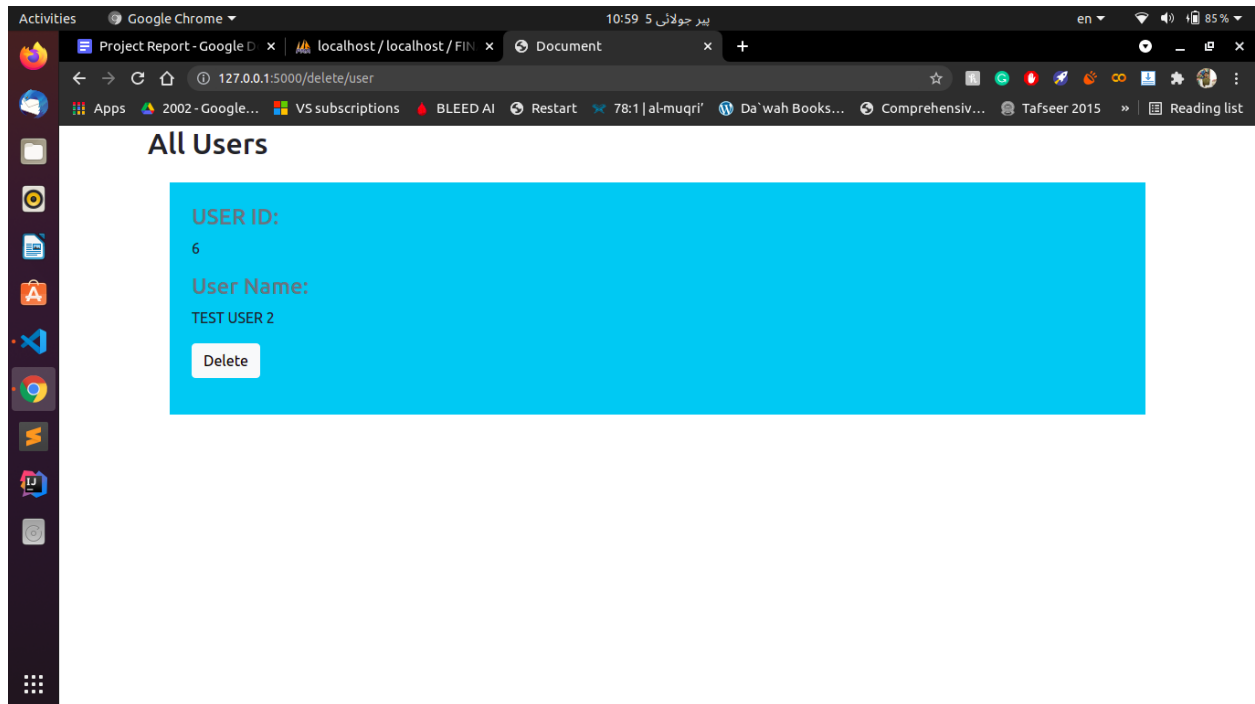


- Update Answer

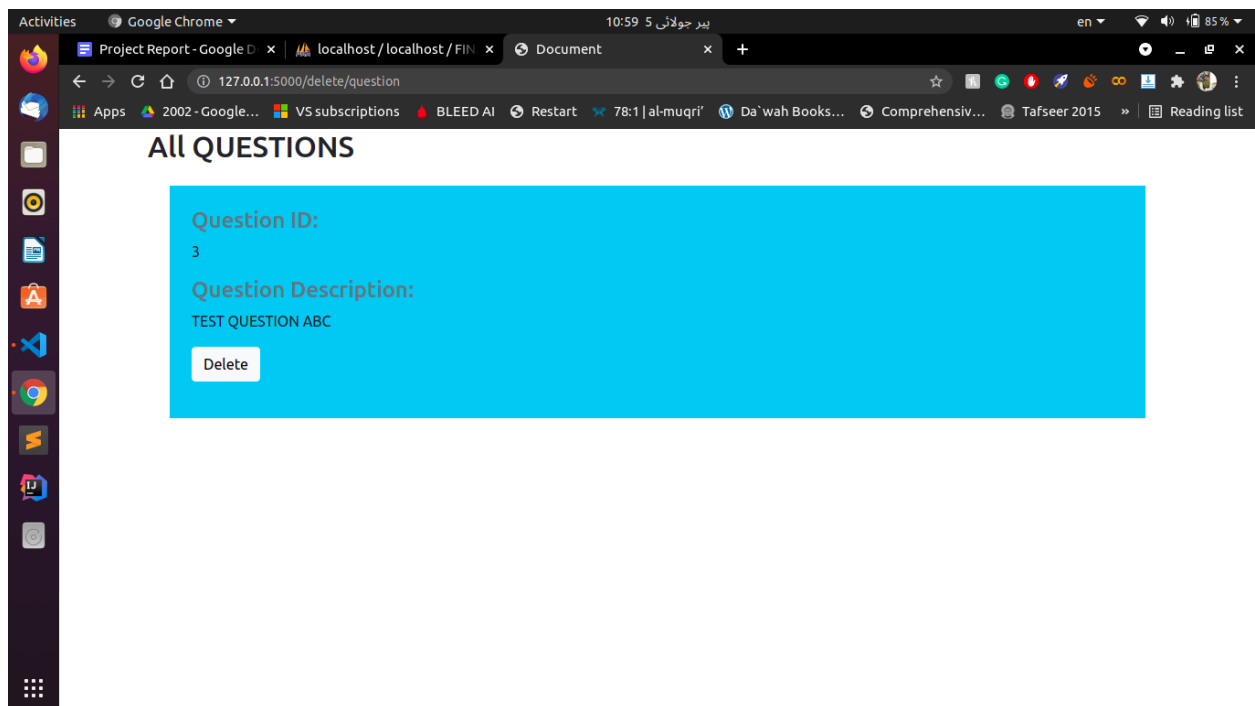


Delete Operations

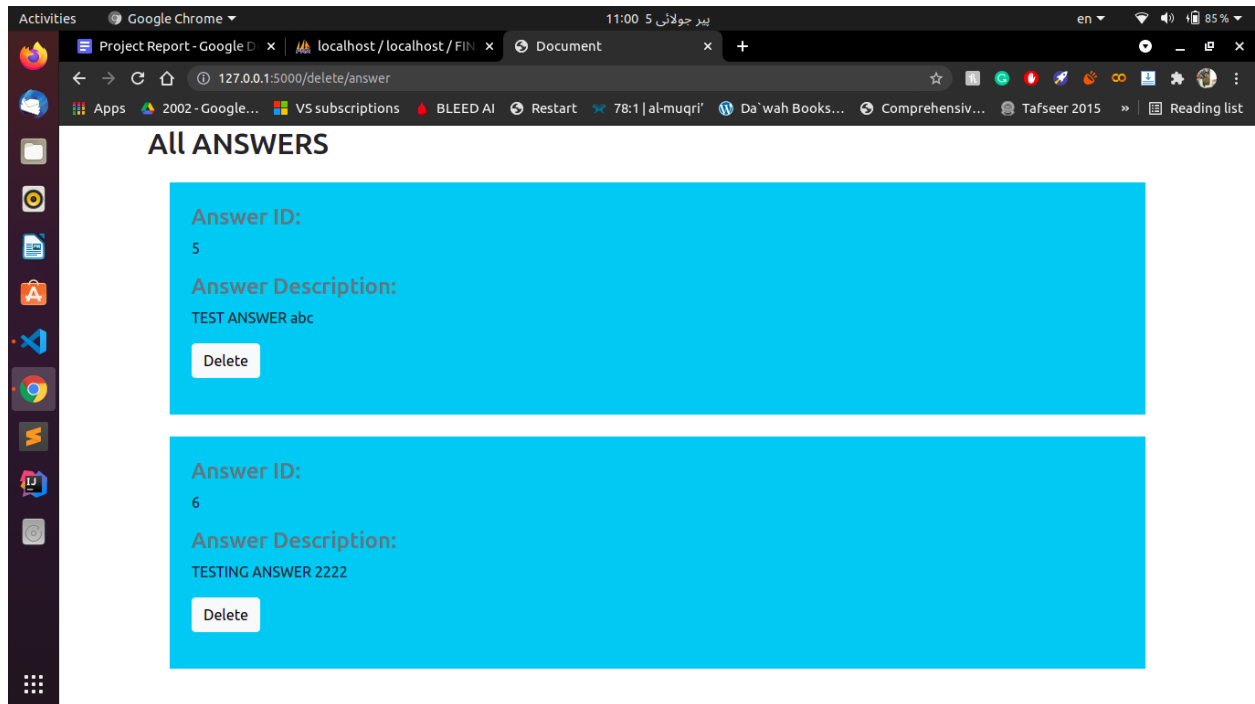
- Delete USER



- Delete Question



- Delete Answer



- Delete Badge

