Pune Institute of Computer Technology, Pune

DBMS Mini Project(AY 2022-23)

Placement-Tracker

Class- **TE1**

Batch- **L1**

Sem- **V**

Group members (Roll no and Name):

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Lab Teacher Name: **Prof. Vijayendra Bagade**

Title : **Placement-Tracker**

Problem Definition :

Web application for Placement Tracker. Users can fill post there Experience. Users can log in after registration. Users can see all post, and search the post according to their name, company id, and package. Users can add the post to the Dashboard and can do all CRUD operation with their own profile, Only read operation is being performed to other user post. The user can see only his own post of other uses. The admin can see all the post, and can do all available operation. Admin can create and update the post and confirms the post. Admin can see all the users and can modify their post.

Learning Objective :

- To deal with Placement Tracker in an easy and efficient manner.
- Create a strong database using MySQL that prevents any outside or inside attacks.
- To learn the authentication-based secure login system.

Learning Outcome :

After successfully implementing the mini-project students will :

- Learn web technologies like HTML, CSS, Django, MySQL, bootstrap.
- Implement various MySQL queries in a real-time application.

Abstract :

Placement Tracker is a web application that aims at computerization for posting all placement/Internship Questions at one place. The purpose of this application is to receive orders from the user where the user has to register and log in to place the order. Users can see products, filter the products and see the product details. An admin can see all the orders, edit the orders, and confirms the order. The admin can create the product and update the product accordingly. The application provides a user-friendly user interface to interact with the system. The admin authentication provides different services for admin which include the above-mentioned services. The services provided by the backend are handled by the MongoDB queries controlled by the mongoose and Redux store . HTML and CSS would be at the front end and provide a graphical user interface that relates to the user, while the MongoDB database will be at the back end to handle the data storage process.

S/W&H/W requirements :

S/W -

- OS :– Windows
- IDE :- Visual Studio Code
- Database - MySQL

H/W -

- Processor – Intel Core i5
- RAM – 8GB
- Hard Disk – 1TB
- Keyboard
- Monitor

Architecture/ Block Diagram :

User roles & their description :

1. **User**
    - User can view all the Post details without login or registration.
    - User can search for the post and filter it by name,company_id and stipend.
    - User can place post only if he is logged in and verified by the authentication - system
    - .User can view the post placed and see the post details.

2. **Admin**
    - Manages the database.
    - Maintains the user roles.
    - Create, view, and update the post.
    - Direct Access to the Database.
    - Manages all post and confirms the post or deletes the post.
    - Possible Error Checks.
      i) If the post are not available admin can post the of topic related post in database.

Functional Description :

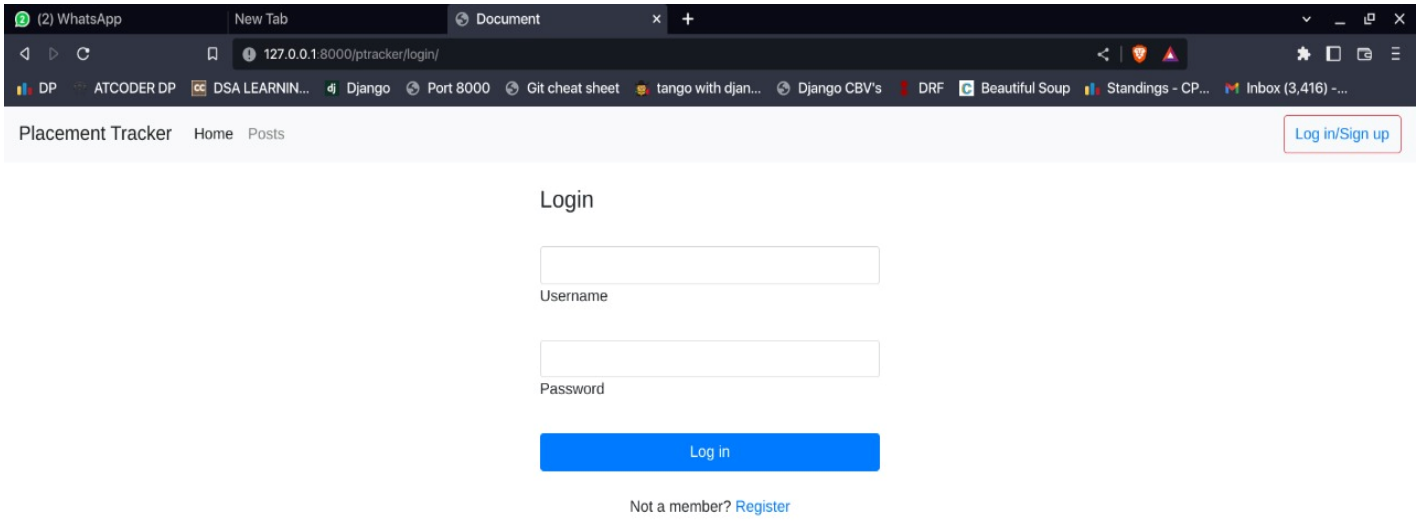
- . There are two types of user profiles: User and Admin.

- The User can perform the following functionalities:-
    1) Register on the application:- Requires Username, password, confirm password ,Passing year and Department of the Student for registration.
    2) Log in to view all Post:- Require Username and password for login.
    3) View All Post and search for the product. :- Searching can be done by inputting any word present in the Search bar with different Parameter.
    4) Filter the Post according to company,_id,student name and stipend.
    5) Adding the Post to the database.
    6) View the Post.:- user needs to be authenticated to view his own Post.
- Our basic target is to keep a database of users, products, and post in concern for the admin.
- The admin can perform the following functionalities:-
    1) See the Post
    2) Update the Post: - Confirm the Post according to the condition. Change the Post Parametrs after post
    3) Create Post form:- Enter the name, Title, Your Post, Company, Intern(Bool), and CTC.
    4) Managing User roles:- Update the role of the User to the admin.

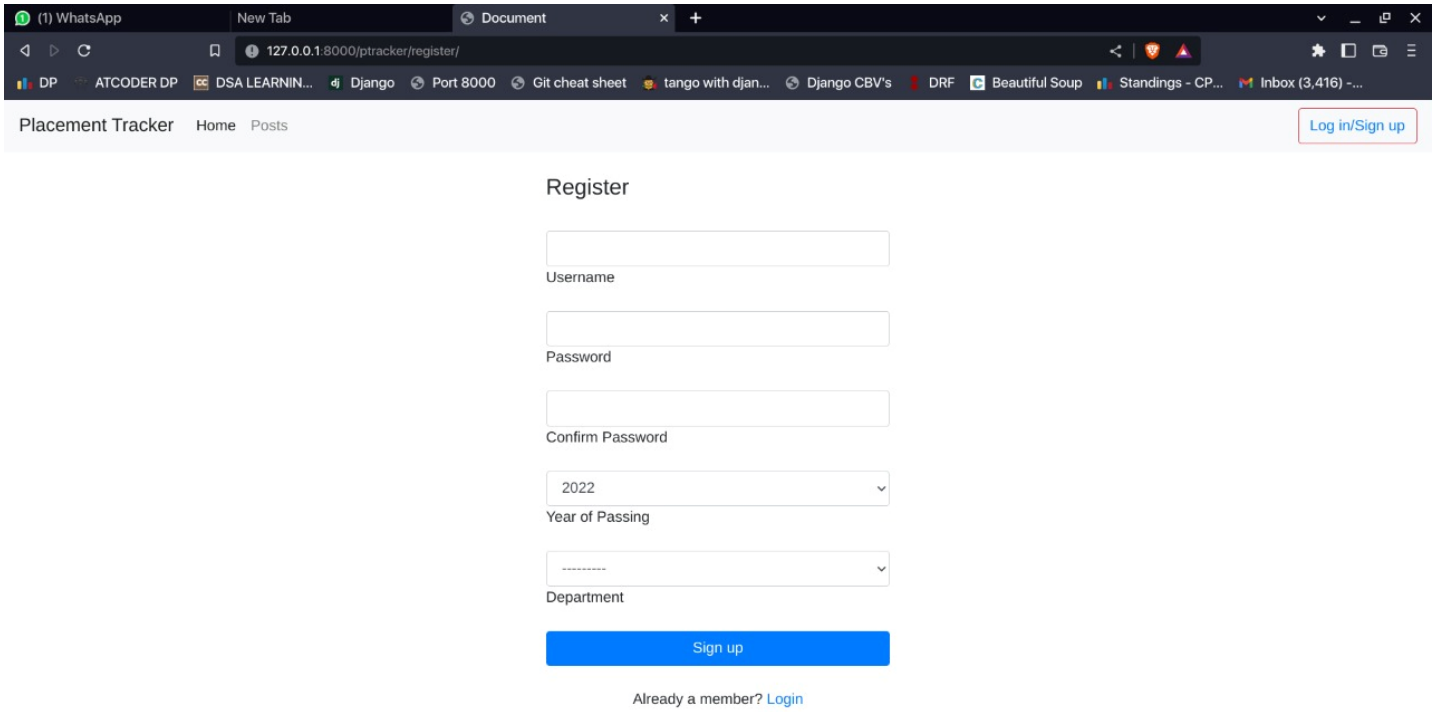
ER DIAGRAM

Test cases :

1) User Registration :-

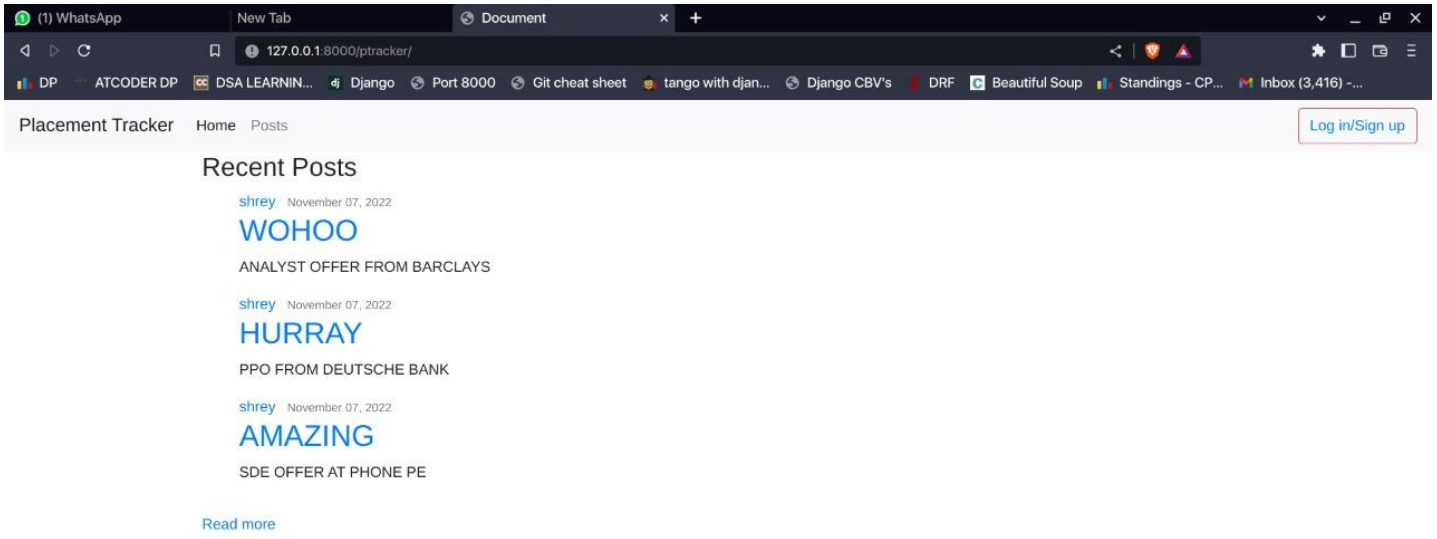


2) SignUp:


(1) WhatsApp
New Tab
Document
127.0.0.1:8000/ptracker/register/
DP
ATCODER DP
DSA LEARNIN...
Django
Port 8000
Git cheat sheet
tango with djan...
Django CBV's
DRF
Beautiful Soup
Standings - CP...
Inbox (3,416) -...
Placement Tracker
Home
Posts
Log in/Sign up
Register
Username
Password
Confirm Password
2022
Year of Passing

Department
Sign up
Already a member? Login

3)DashBoard: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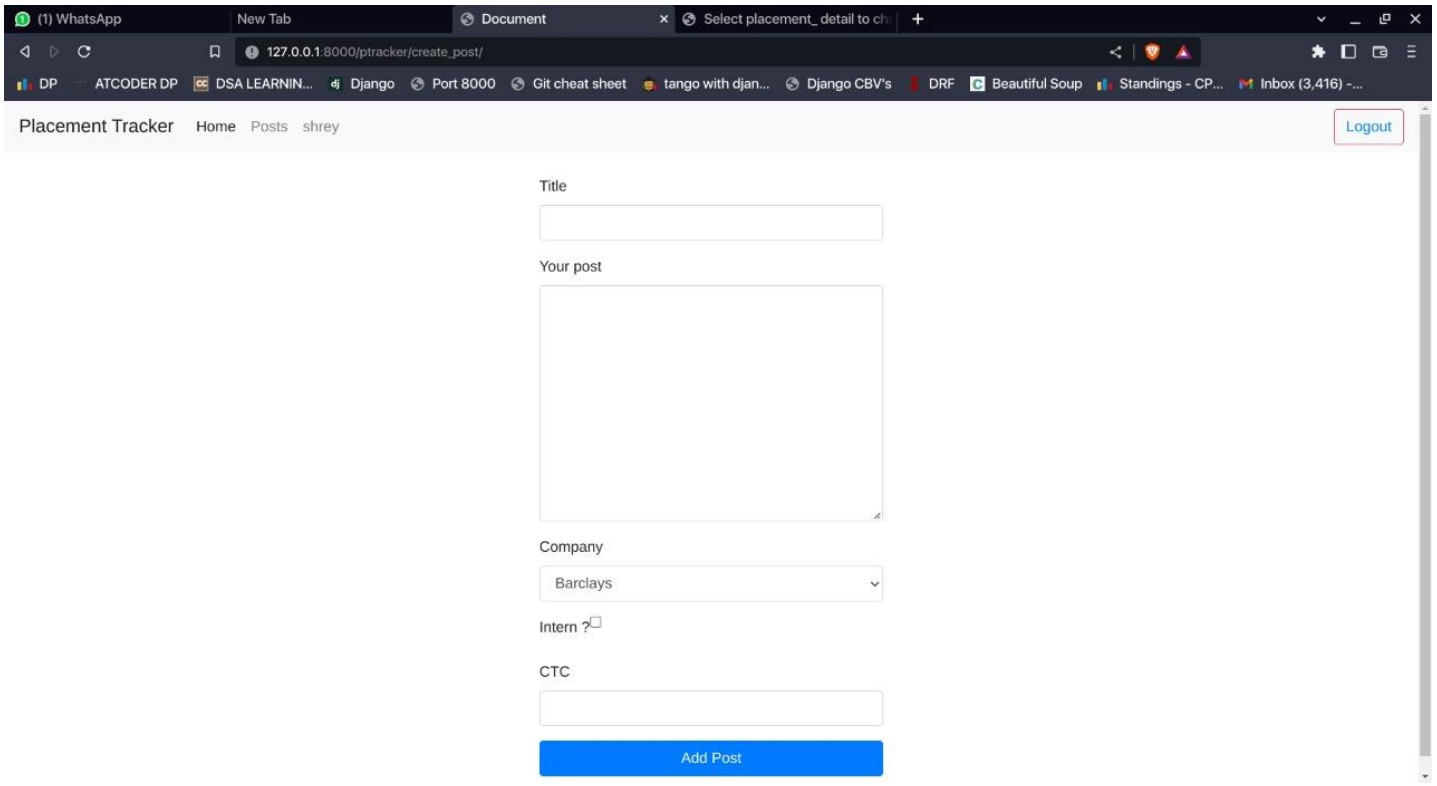
Placement Tracker
Home
Posts
Log in/Sign up
Recent Posts
shrey November 07, 2022
WOHOO
ANALYST OFFER FROM BARCLAYS
shrey November 07, 2022
HURRAY
PPO FROM DEUTSCHE BANK
shrey November 07, 2022
AMAZING
SDE OFFER AT PHONE PE
Read more

4) My Post :-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Placement Tracker
Home
Posts
shrey
Logout
Title
Your post
Company
Barclays
Intern ?
CTC
Add Post

Conclusion :

By successfully implementing the Placement Tracker we learned web technologies such as HTML, CSS, Django ,Bootstrap and implemented MySQL queries in real-time time applications.

Role-based authentication is implemented successfully. The two different user roles perform certain activities according to their roles.

Hence, the application ‘Placement Tracker was successfully developed andimplemented.