

Software Lab Project

Web Application: JANTA

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1 Introduction

We are introducing **JANTA**, a web application that provides a central place where the team members can stay connected and distribute tasks among themselves. On this platform the team members can distribute task with deadlines/reminders, share files and pass messages to complete their given task. This web application can be used by teachers to distribute tasks with deadlines or just students who are working on group projects.

A person has to register on this application as a moderator or as a user. The moderator has the functionality to create or delete task, assign it to the users. Then user will login to communicate with his fellow mates. After login when the moderator creates a task, a notification is arrived at the user mentioning the task and the deadline. User will finish the task and share it before the deadline.

2 Motivation

In this online semester collaborating with peers and team members to complete tasks and project has been difficult. This happens because the work is scattered on many platforms. There was no single platform where the teams can collaborate efficiently. Due to this pandemic most of the job is done from home so there was a need of a single platform that can be used to complete the task simply and efficiently.

Students have to share files and communicate on different platforms due to which they forget about the deadlines.

3 Dependencies and Steps to Use Janta

3.1 Dependencies

- Python 3.8
- Django 3.1
- pymysql 0.10

3.2 Steps to Use Janta

1. Install python 3.8 if not installed already

\$ sudo apt install python 3.8

2. Clone the repository

3. Install virtual environment if installed go to next step

\$ sudo pip3 install virtualenv

4. Create virtual environment in source directory

\$ virtualenv venv

5. Activate virtual environment

\$ source venv/bin/activate

6. Install django

\$ pip3 install django

7. install pymysql

\$ pip3 install PyMySQL

8. Deactivate virtual environment

\$ deactivate

9. Install mysql server if installed then goto source/ProjectJanta/settings.py and provide HOST, PORT, USER and PASSWORD.

\$ sudo apt install mysql-server

10. Open mysql
\$ sudo mysql
11. Modify the plugin
mysql > ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'root';
12. Run command to make changes
mysql > FLUSH PRIVILEGES;
13. Verify mysql server is started or not
\$ systemctl status mysql.service
14. If not then run command
\$ sudo systemctl start mysql
15. Login into mysql client create database and exit
mysql > CREATE DATABASE projectjanta;exit;
16. Activate the virtual environment from source directory
\$ source venv/bin/activate
17. Run server
\$ python3 manage.py runserver
18. Open browser and hit URL this will create database tables:
127.0.0.1:8000/janta/admin-resetdb?key=Wq5tx7r3Zp
19. Stop server
Press CTRL+C
20. Migrate django session
\$ python3 manage.py migrate sessions

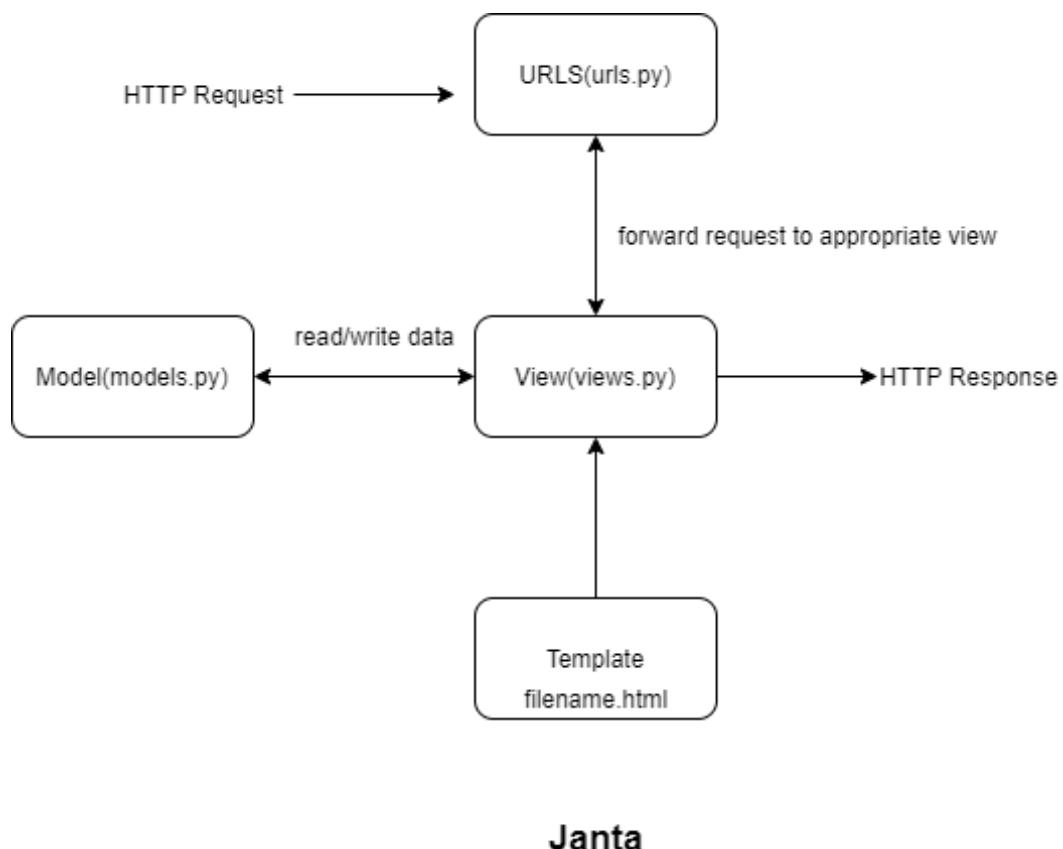
21. Run server

```
$ python3 manage.py runserver
```

22. Visit ProjectJanta Index page

<http://127.0.0.1:8000/>

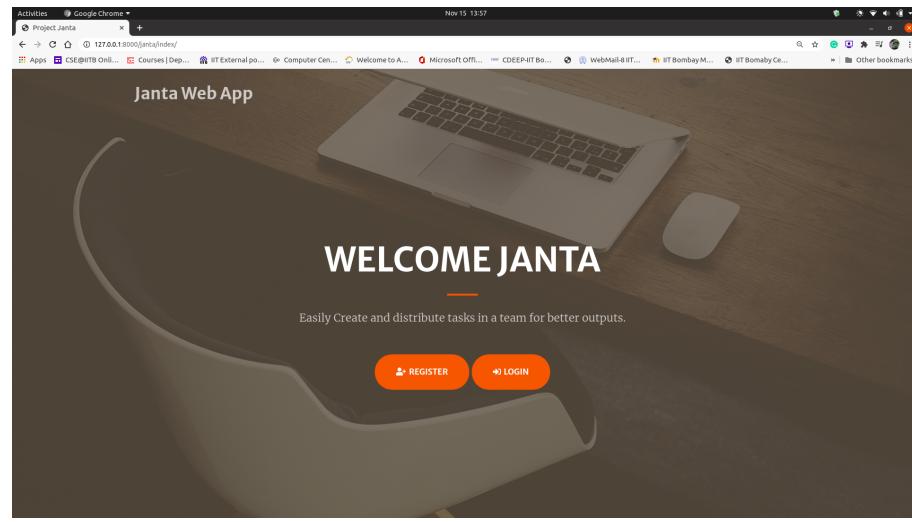
3.3 Flow chart



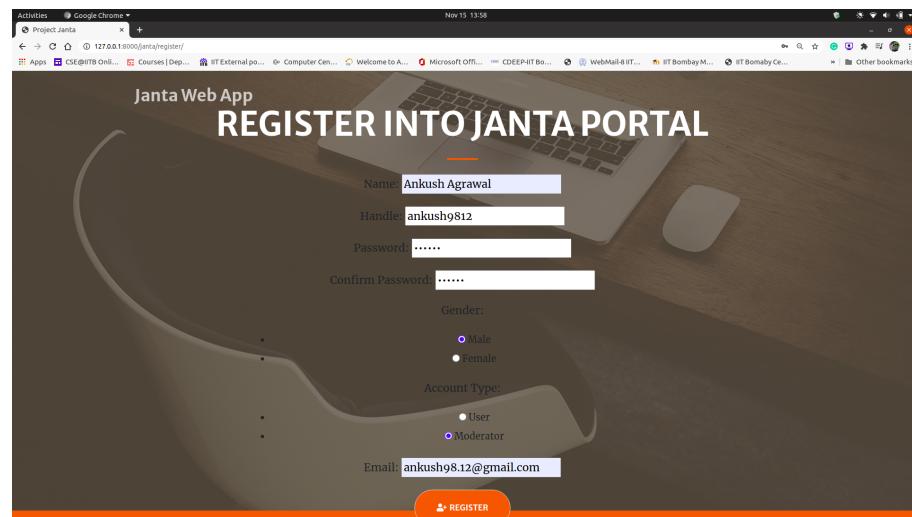
4 Project Explanation

4.1 Homepage of Janta

People can register or login.

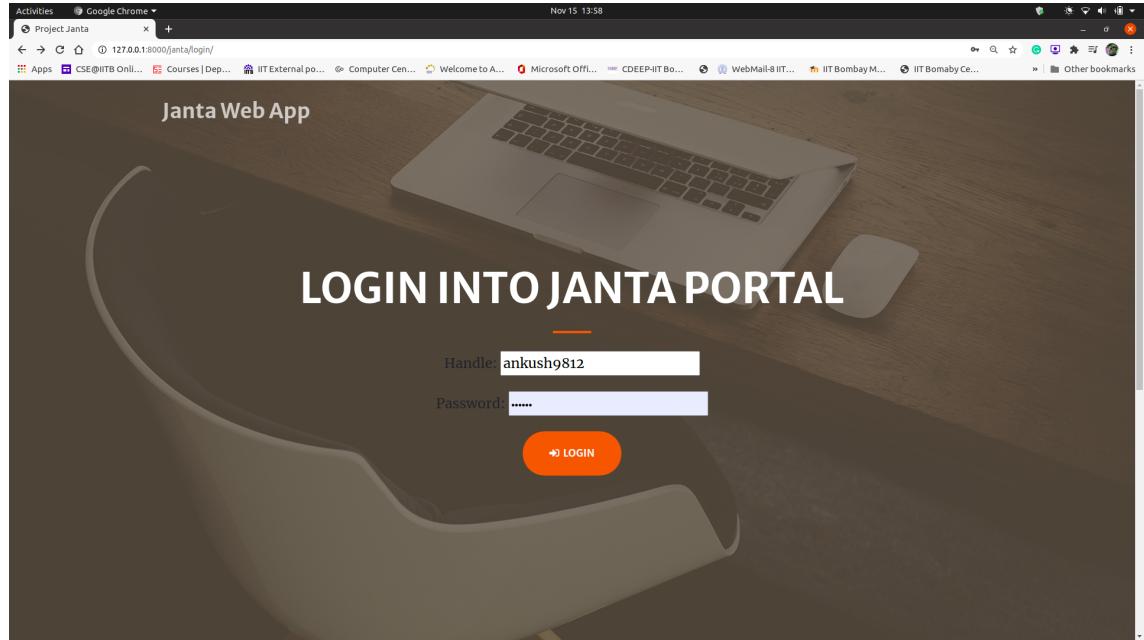


4.2 Register as user or moderator



4.3 Login

After registering,you will be redirected to login page.

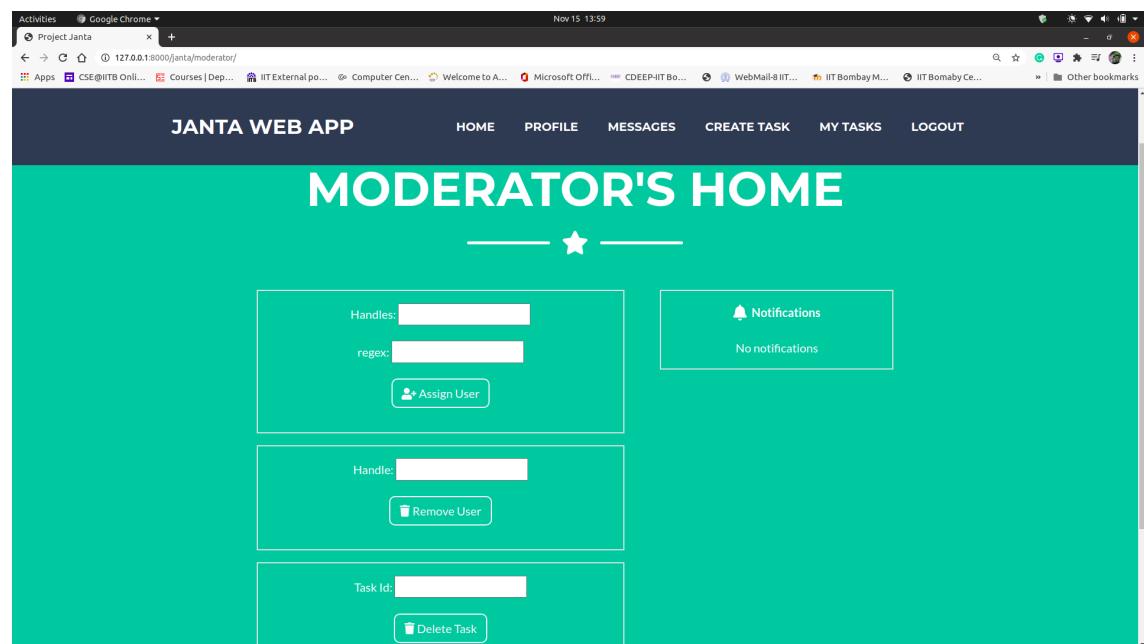


4.4 Moderator

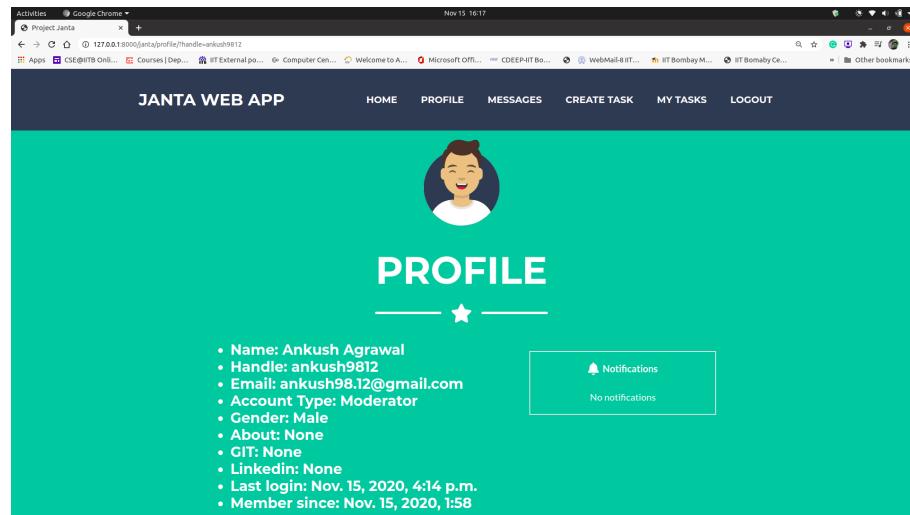
Moderator's Homepage.

Here moderator can assign task to user, delete the task and remove the assigned user from task.

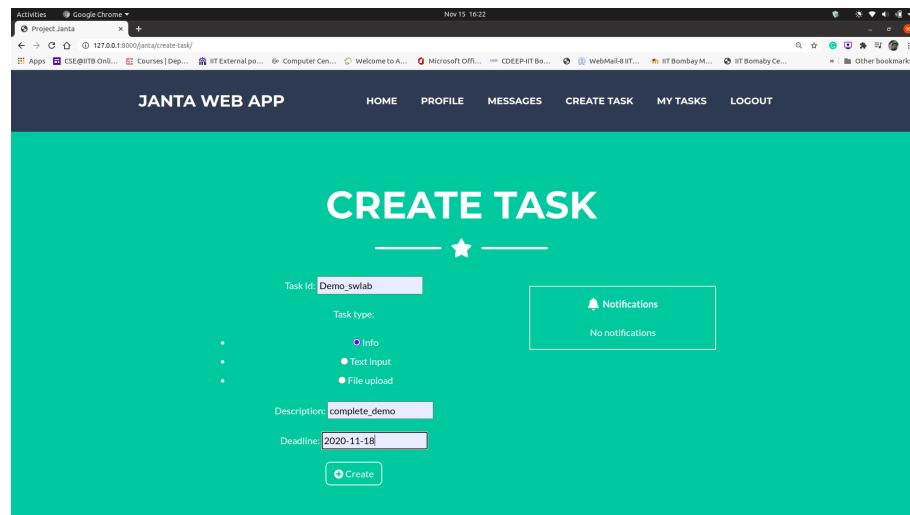
Notification bar is present on every page.



It is the profile page of user or moderator. It gives the option to edit profile or change password.



Moderator will create the task here. Task can be Info type, character input or file upload, we have provided the option to select.



It is the page to see the tasks created by moderator. Moderator can modify the task or check the task status.

The screenshot shows a web browser window for 'Project Janta' in Google Chrome. The URL is 127.0.0.1:8000/janta/my-tasks/. The page title is 'JANTA WEB APP'. The main content area has a teal background and features the heading 'MY TASKS' with a star icon below it. On the left, there is a section titled 'Created tasks' containing a single task entry:

- Task Id: Demo_swlab
- Type: Text
- Description: complete_demo
- Deadline: Nov 18, 2020, midnight
- Created on: Nov 15, 2020, 4:21 p.m.

Below the task list are two buttons: 'Modify task' and 'Task status'.

On the right, there is a 'Notifications' box with the message 'No notifications'.

Task status

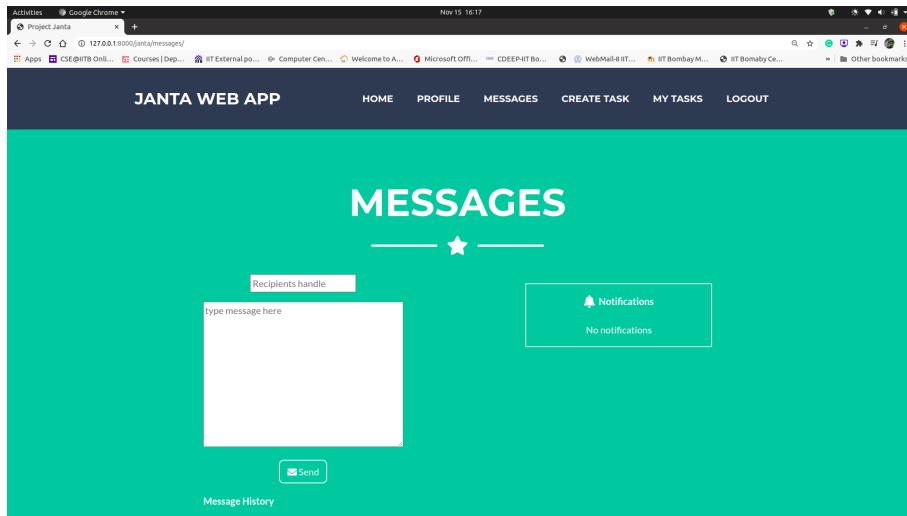
The screenshot shows a web browser window for 'Project Janta' in Google Chrome. The URL is 127.0.0.1:8000/janta/task-status/?task_id=Demo_swlab. The page title is 'JANTA WEB APP'. The main content area has a teal background and features the heading 'TASK STATUS' with a star icon below it. On the left, there is a section titled 'Submissions' containing the following information:

- Completed by: No one completed the task
- Submitted by: No submitted task
Legends: ankush

Below this is another section titled 'Submissions' with the message 'No pending submission to accept'.

On the right, there is a 'Notifications' box with the message 'No notifications'.

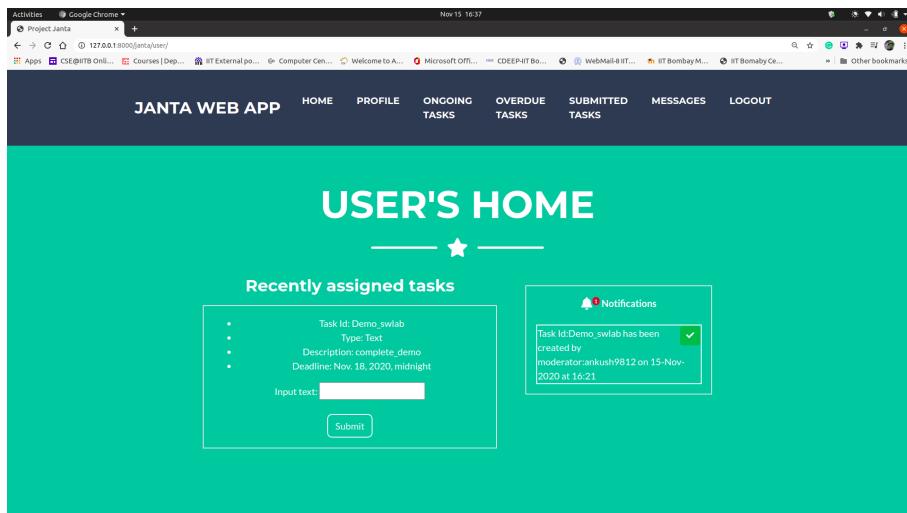
Messages can be sent to users.



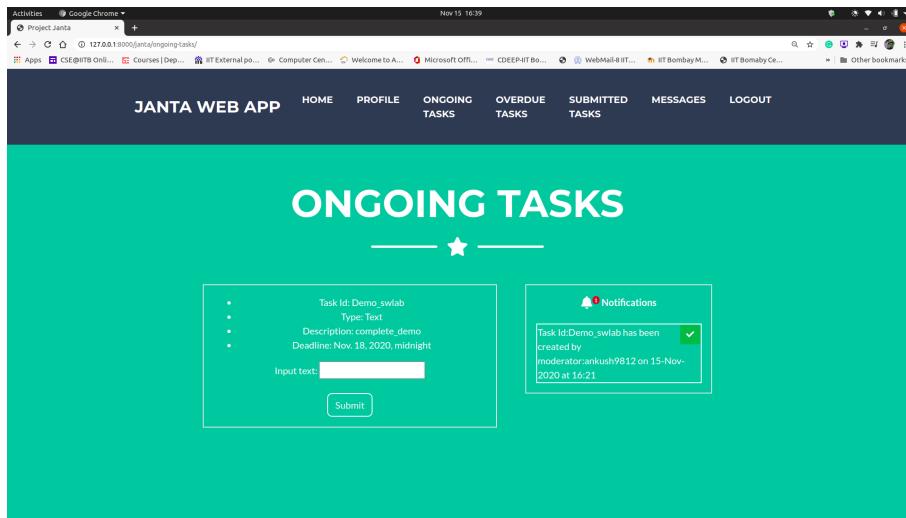
The logout option is present.

4.5 User

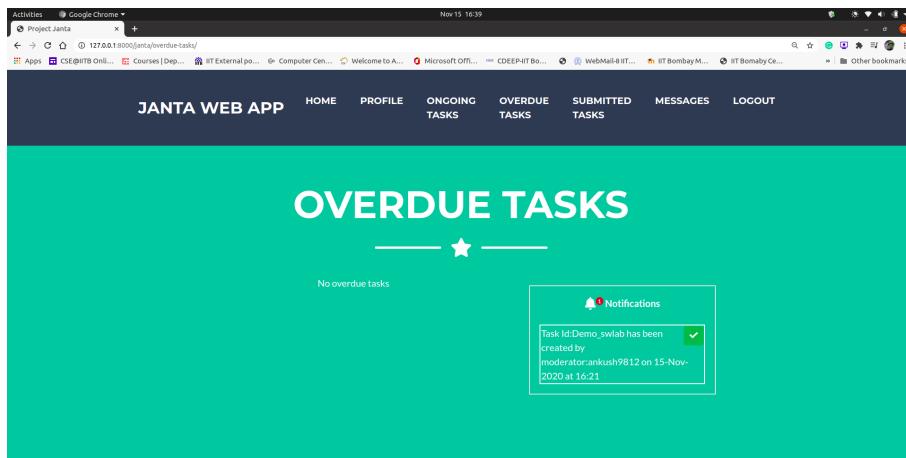
User's homepage where recently assigned tasks and notifications will be shown.



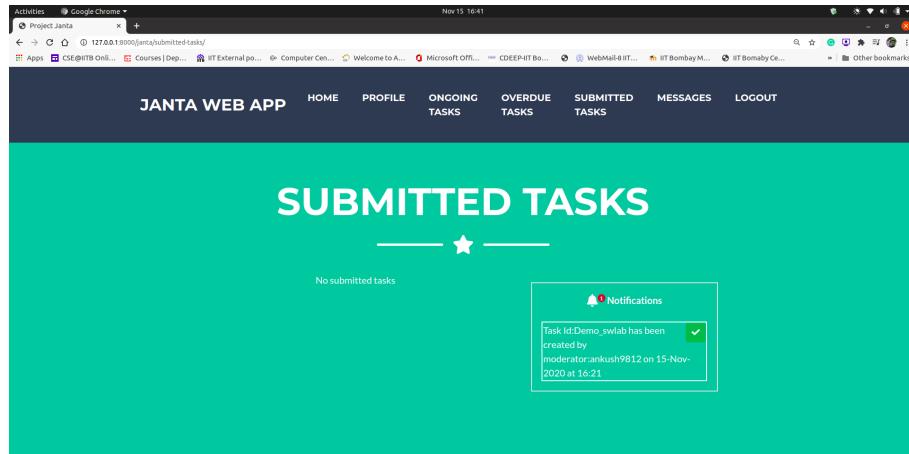
User's ongoing tasks, for which user has time to submit the task.



User's overdue tasks whose deadline had passed will be shown.

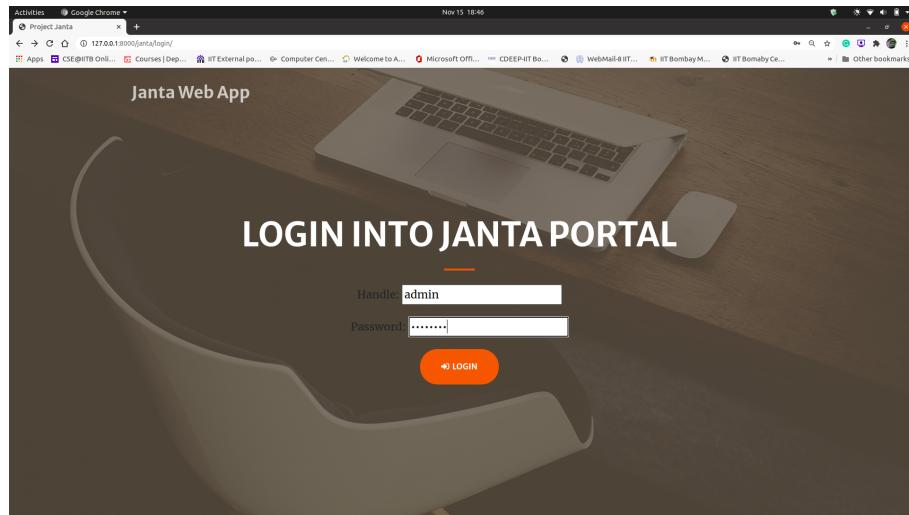


Submitted tasks of the user will be shown.



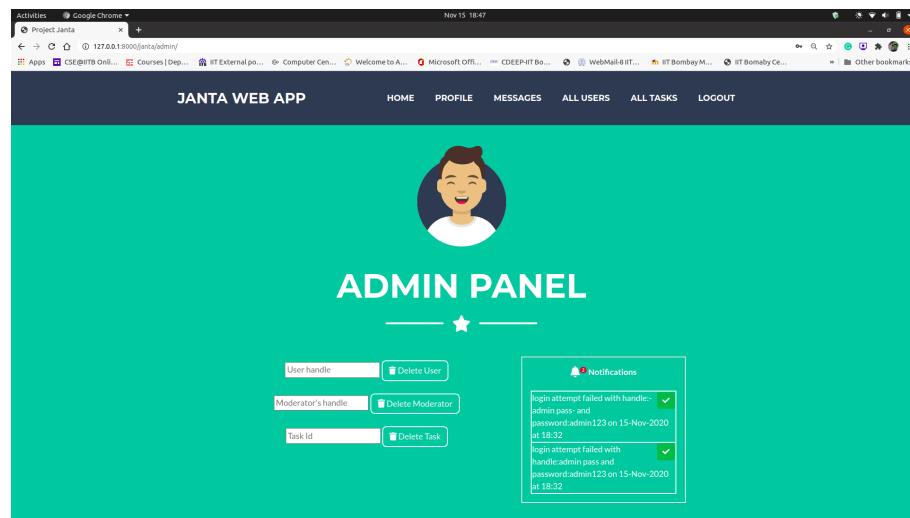
4.6 Admin

This is the login page of admin. Admin has special functionalities.

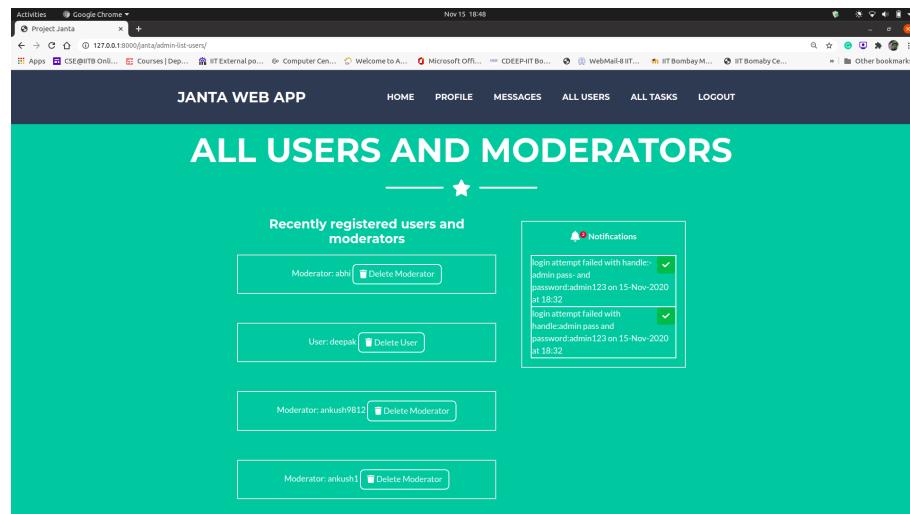


This is the home page of admin where it can manage user, moderator or any task.

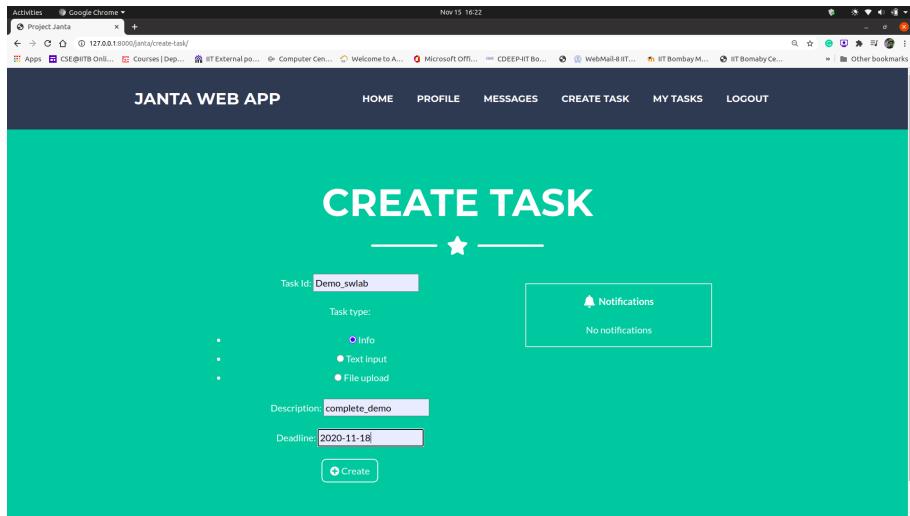
In the notifications it can be seen that attempt failed is notified. It is use to monitor any malicious user and strengthen our handle or password.



This is ALL USERS page where all the registered users,moderators are shown and maintained.



This page shows all the created tasks.



5 Future Scope

Since the beginning of pandemic, people are scattered at different places so collaboration among team-members has dropped. This web application is useful for people who want to collaborate in a team and work on a job from different places.

Most of the work done among people of different age groups or employees of almost every company requires team-work and hence this app can be extended and used in all areas.

We have developed the application **JANTA** which is easy to use and easy to understand for team collaboration.