



**WolfComplain** is a platform designed to streamline class discussions and doubt resolution for students and faculty by consolidating various resources into a single, user-friendly interface. At NC State, multiple platforms like Moodle, Discord, GitHub, and Piazza are used for different tasks, which can lead to confusion, wasted time, and repeated questions. WolfComplain solves this by enabling students to track all their questions across courses, view doubts raised by peers, and access course-specific information efficiently. Built using **Python, Django, HTML, CSS, JavaScript, and Docker**, this project improves productivity and minimizes the need to navigate multiple platforms, creating a more organized and effective learning environment.

The dashboard displays the following statistics:

- Solved Complains: 0
- Rejected Complains: 0
- Pending Complains: 0

Sections include:

- Solved Complains:** No Complains to display
- Transferred Complains:** No Complains to display
- Rejected Complains:** No Complains to display

#### Upcoming Improvements and Implementation Plan

##### 1. Complaints by Topic/Tags

- Goal: Organize complaints and discussions using specific tags and topics to improve navigation and categorization.
- Implementation Plan: Develop a tagging system that allows users to label complaints with predefined topics. Introduce a filtering option to view complaints based on selected tags.

##### 1. Enhanced UI Design

- Goal: Revamp the user interface to provide a more modern, intuitive, and consistent experience.
- Implementation Plan: Create new wireframes and prototypes for the redesigned UI. Focus on usability improvements, streamlined navigation, and responsive design for all device types.

##### 1. Advanced Search Feature

- Goal: Implement a robust search functionality that allows users to quickly locate complaints, topics, or resources.
- Implementation Plan: Use keyword-based search algorithms and filters (e.g., by tag, topic, or date) to enhance search accuracy and speed. Develop a dynamic search bar with auto-suggestions.

##### 1. Email Notifications

- Goal: Keep users informed with real-time updates on complaint status, responses, or new comments via email.
- Implementation Plan: Implement an email notification system using a task scheduler and integrate with the existing backend. Set up user preferences for managing notification settings.

##### 1. Feedback System for Complaint Status

- Goal: Allow users to view the status of their complaints (e.g., open, in progress, resolved) and provide feedback on issue resolution.
- Implementation Plan: Create a status-tracking feature for complaints, allowing admins to update statuses and users to track progress. Develop a feedback form linked to each complaint for users to evaluate the resolution.

The add complain page includes the following fields:

- Complain heading\*
- Complain content\*
- College\* (DD Sanghvi College of Engineering)
- Complain Related to\* (Management)

Student details shown on the profile page:

- Full Name: demo student.
- Email: kdhbk@iitj.com
- Branch: Computer
- Total Complaints: 0
- Rejected Complaints: 0
- Solved Complaints: 0

In the updated version, the application has been **dockerized for quicker deployment**, enabling it to run seamlessly on any machine in under five minutes, regardless of the operating system or language versions. Unlike the previous version, which required complex configuration and manual setup, the Docker containers ensure that each component is isolated and easily reproducible, simplifying deployment across various server environments such as AWS, Azure, and Google Cloud.

Additionally, the new version includes **pagination** to limit data load per query, resulting in faster response times and improved navigation compared to the earlier infinite scrolling approach. This change reduces page load times and enhances the user experience by presenting smaller, more manageable pages.

Lastly, **filters have been added to the college feed** for easier searchability, allowing users to filter by college, feed type, and department. This improvement over the previous version provides a more intuitive way for users to locate relevant feeds, boosting overall efficiency and usability.

The project has **5 test cases**, to check functionality and reliability across critical components of the grievance management system!

The college feed search interface includes a dropdown menu for selecting a college:

- Select College
  - NSU
  - TAMU
  - USC
  - NYU
  - UIUC
  - UCSD
  - CMU
- Select Type

The college feed results page shows search results for the terms "ver" and "ad". Each result includes a timestamp, the number of complaints, and the branch they are from.

Search Term	Count	Timestamp	Branch
ver	0	Jul 11, 2020	for None branch
ad	0	Jul 09, 2020	for None branch
ada	0		
ddd	0		

