

# **DEPARTMENT GRIEVANCE MANAGEMENT**

**Project Report Submitted**

**To**

**Gujarat University**

**In partial fulfilment of the requirements for  
the award to the Degree of**

**5 YEAR INTEGRATED MASTER OF SCIENCE  
(COMPUTER SCIENCE)**

**SEMESTER –VI**

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**DEPARTMENT OF COMPUTER SCIENCE  
GUJARAT UNIVERSITY, AHMEDABAD  
YEAR: 2022-23**

## **ACKNOWLEDGMENT**

With immense gratitude, I extend my heartfelt thanks to those who have been pivotal in the realization of the Department Grievance Management. The successful completion of this project stands as a testament to the collective efforts of individuals who have generously offered their support and inspiration, both directly and indirectly.

A special acknowledgment goes to Dr. Jyoti Pareek , Head of the Department of Computer Science at Gujarat University . Dr. Jyoti Pareek provided us with a robust platform, affirming an environment where learning could be nurtured and translated into practical implementation. My sincere appreciation also extends to my internal guide, Dr. Hiren Joshi, Professor at the Department of Computer Science, Gujarat University. Dr. Hiren Joshi 's keen interest, guidance, and unwavering supervision at every stage of the project have been instrumental in shaping its current form.

In conclusion, I express gratitude to everyone, whether directly or indirectly involved, for their contributions to the project. Your support has been a cornerstone in the successful development of The Department Grievance Management.

**With Thanks to All**

Janvi Chauhan

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## **PROJECT PROFILE**

<b>Title</b>	<b>Description</b>
Project Title	Department Grievance Management
Aim of Project	Addressing concerns and complaints regarding various aspects of our department's facilities and services
Project duration	6months
Team size	1 Members
Tools used	Visual Studio code,Github
Technologies used	HTML,CSS,Javascript,Ajax
Software and hardware environment requirement to use for an application	Any modern web browser is compatible with HTML,CSS and JavaScript
Guide	Dr Hiren Joshi

## Project Description

- The Department Grievance Management System is designed to serve as a comprehensive platform for addressing concerns and complaints regarding the various aspects of our department's facilities and services. With a focus on creating a supportive and conducive environment, this system aims to streamline the grievance submission and resolution process. By providing a centralized hub for managing complaints, we seek to enhance communication, accountability, and overall satisfaction within the academic community.
- With the user-friendly interface, students can easily submit complaints regarding various issues they encounter within the department. Whether it's a malfunctioning computer, a cleanliness issue in the restroom, or any other concern impacting their experience, our platform provides a straightforward mechanism for voicing these grievances.
- The primary objectives of the Department Grievance Management System are to create an efficient process that reduces the time and effort required to submit and resolve grievances, ensuring that issues are addressed promptly and effectively. By making the status and resolution of complaints visible to all stakeholders, the system fosters transparency, trust, and accountability.

## ❖ **Functional Requirements of the System**

### **1)User Authentication and Authorization**

- Users can login or Register as per the requirements and they can manage their profile .
- User can update or edit their profile information such as their email.
- There are different Roles based on specific permissions such as Admin, Faculty and Student.

### **2)Grievance Submission**

- Students can submit the grievances based on their issues and category of grievance.
- The Grievance submission form consists of the complaint ID ,Description and any relevant attachments.

### **3)Grievance Tracking**

- Tracking of the complaints/grievances as students can see the status of the grievance.

### **4)Categoraization of the Grievance**

- Different Categories of the complaints are provided .
- System allows user to choose the categories as per the nature of the grievance(Laboratory ,Library,Infrastructure etc)

## **5)Reporting**

Report of the grievances which are in the system .

## **6)Searching and Filters**

Using the Search ability for searching the complaints .

Users must be able to search and filter complaints based on various parameters (e.g., category, status, date).

# **❖ Non-Functional Requirements of the System**

## **1)Usability**

- User friendly interface providing smoother interaction with the students as well .

## **2)Performance**

- The system will respond quickly to user inputs and queries.

## **3)Compatibility**

- The system is compatible with various web browsers .

## **4)Maintainability**

- To be well coded and documented so that it will be better to maintain.

## PROJECT DESCRIPTION



### Requirements of the Users

#### 1. Student

- Generates Grievance
- Uploads media file pdf of size maximum limit only
- View Status
- View Grievance

#### 2. Faculty

- View Grievance
- Update Status
- Handling the grievances according to the category.
- Delete Grievance
- Generate Reports



### 3. Admin

- View Grievance
- Manages Users
- Manages Grievance
- Validate the grievance status
- Can Assign the faculty to the particular category or grievance
- Generates the report on the basis of the grievance received
  - such as number of grievances filed , categories of grievance and status of grievance

### ❖ Frontend

- **HTML:** Used to structure the content on the web pages.
- **CSS:** Employed for styling and designing the user interface to ensure it is visually appealing and consistent. Using this to provide proper representable interface and smooth interaction as well as for better aesthetics to style and design landing pages for users to easily interact.
- **JavaScript:** Utilized to create interactive elements, enhance user experience, and enable dynamic content updates on the web pages. Providing minimal features to help provide a solid foundation for the system.

### ❖ Backend

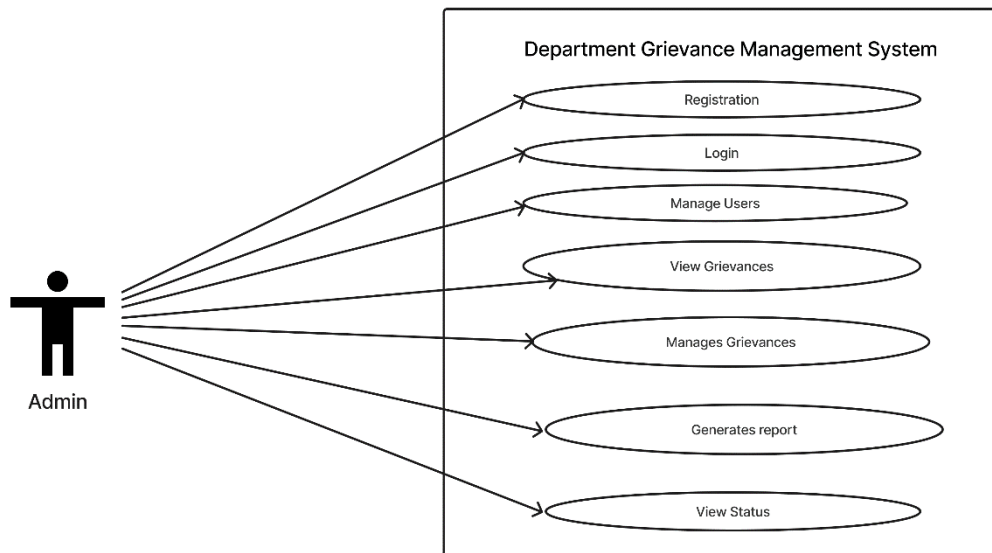
- **SQL:** Utilized to manage and query the database, ensuring efficient storage, retrieval, and manipulation of complaint data. SQL is used to handle all database operations, including storing complaint details, tracking their status, and generating reports. Sql queries helping in fetching the data required each time and also helping to manipulate the data at the same time directly from frontend rather than changing it in table from phpmyAdmin.

# **SOFTWARE**

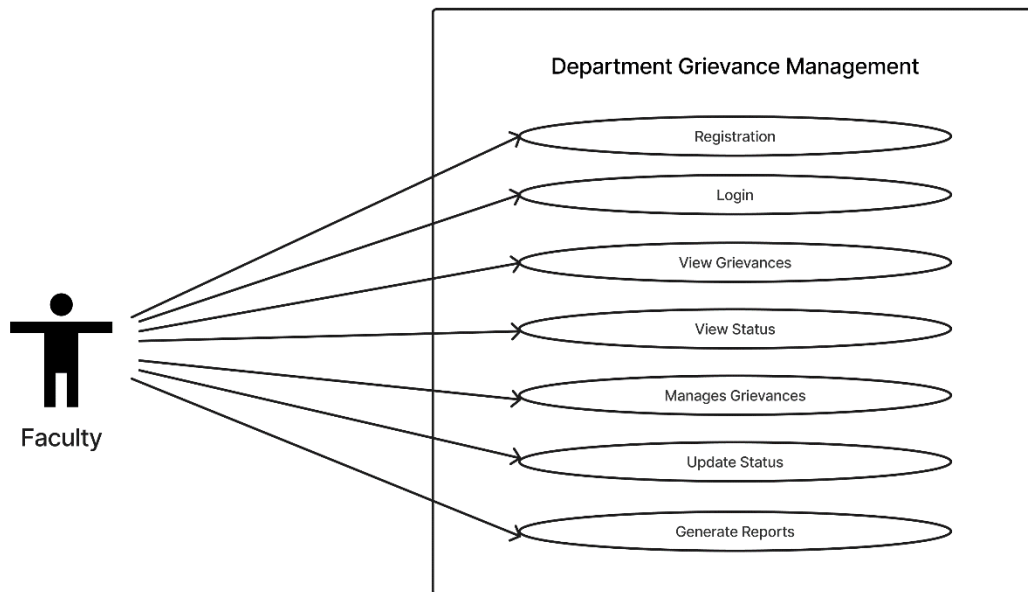
# **DESIGN**

# ❖ Use Case

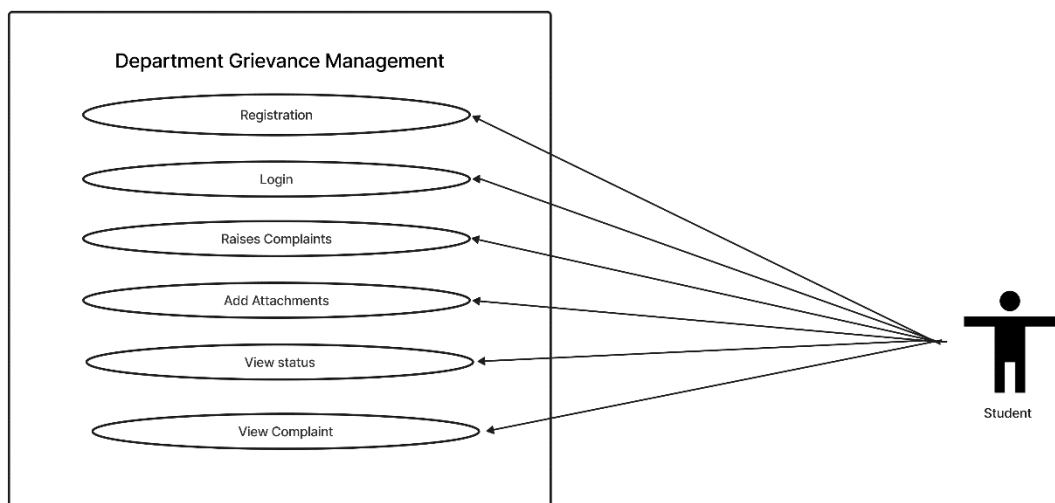
## ○ Admin



## ○ Faculty

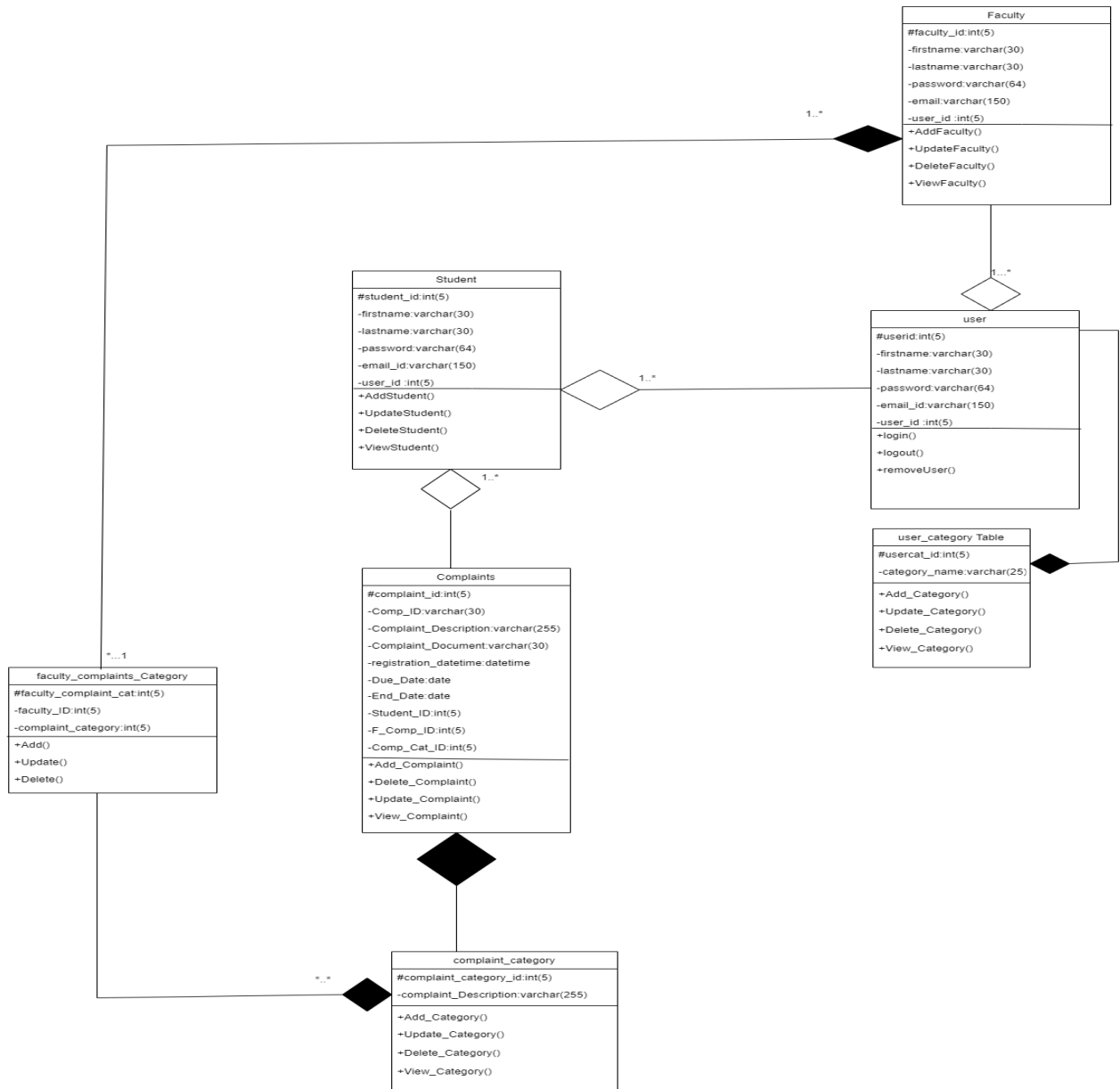


## ○ Student

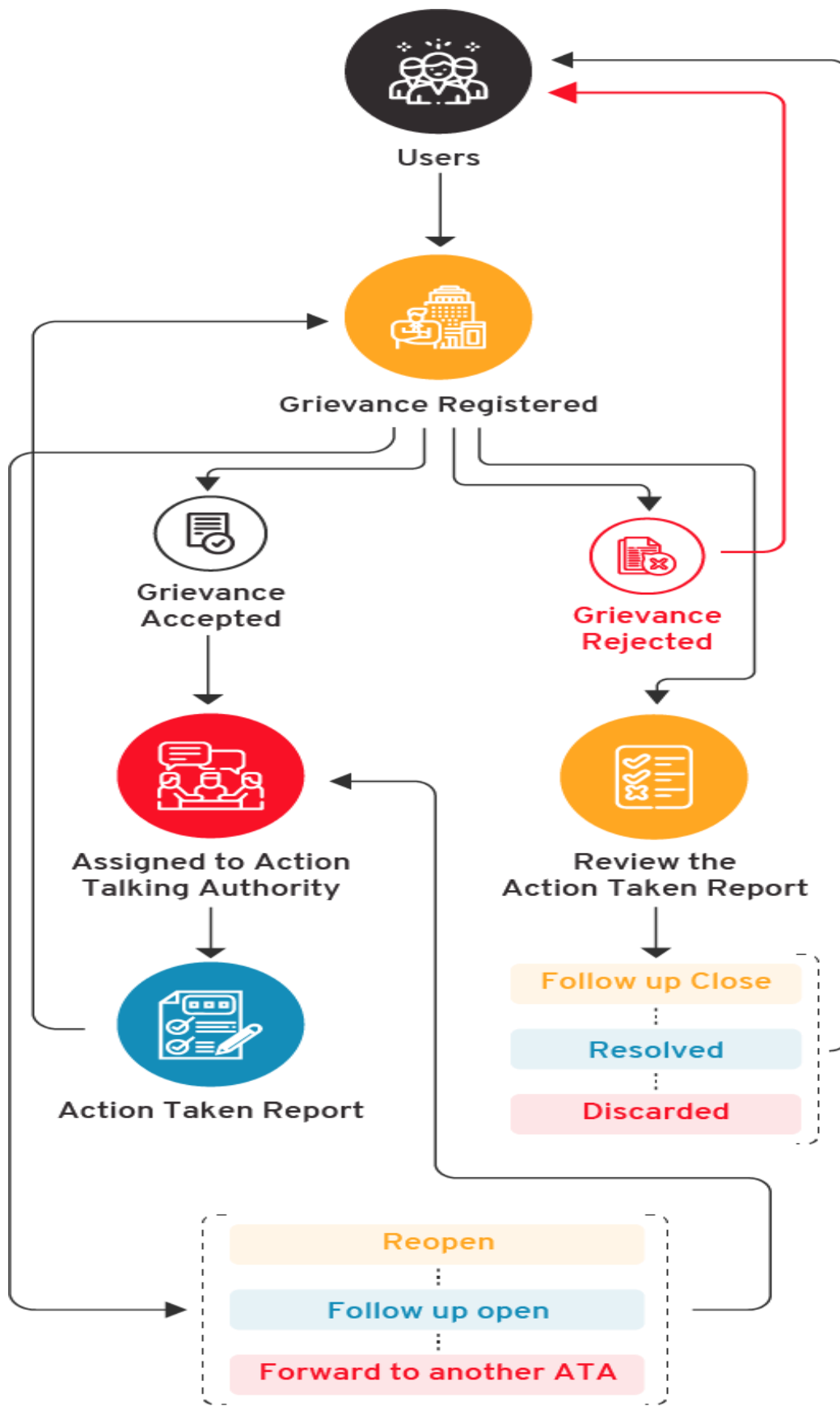




# CLASS DIAGRAM



## ❖ Functionality of the System



# **DATA DICTIONARY**



## Data Dictionary

### ❖ User Table

Serial no	Field name	Type	Size	Link to	Constraints	Sample data
1	userid	INT	5		Primary Key	12
2	firstname	VARCHAR	30			Kathan
3	lastname	VARCHAR	30			Sharma
4	password	VARCHAR	255			
5	email_id	VARCHAR	50		Unique key	kathan@email.com
6	usercat_id	INT	5	usercategory ->usercat_id	Foreign key	2

### ❖ User Category Table

Serial no	Field name	Type	Size	Link to	Constraints	Example
1	Usercat_id	INT	5		Primary Key	1
2	Category_name	INT	25			Faculty

## Complaints Table

Sr no	Field name	Type	Size	Link to	Constra ints	Example
1	complaint_id	INT	5		Primary Key	10
2	Comp_ID	VARCHAR	11			E-265533760
3	Complaint_Description	VARCHAR	255			System 116 in lab 3 not working.
4	Complaint_Document	VARCHAR	100			./uploads/complaint.pdf
5	Registration_time	DATETIME				2024-05-04 21:02:57
6	Status	ENUM				Pending,Processing,Resolved
7	Due_Date	DATE				2024-05-04
8	End_Date	DATE				2024-05-19
9	Student_ID	INT	5	Student->student_id	Foreign Key	1
10	F_Comp_ID	INT	5	Faculty_complaints_cat->faculty_complaint_cat	Foreign Key	3

11	Complaint_Cat_ID	INT	5	Complaint_category->complaint_category_id	Foreign Key	10
----	------------------	-----	---	---	-------------	----

## ❖ Complaint\_category Table

Serial no	Field name	Type	Size	Link to	Constraints	Example
1	Complaint_category_id	INT	5		Primary Key	11
2	Category_description	VARCHAR	30			Cleaning and management



## Student Table

Serial no	Field name	Type	Size	Link to	Constraints	Example
1	student_id	INT	5		Primary Key	11
2	firstname	VARCHAR	30			Janvi
3	lastname	VARCHAR	30			Chauhan
4	password	VARCHAR	64			
5	email	VARCHAR	150			janvi@gmai.com
6	user_id	INT	5	user->userid	Foreign Key	43



## Faculty Table

Serial no	Field name	Type	Size	Link to	Constraints	Example
1	faculty_id	INT	5		Primary Key	14
2	firstname	VARCHAR	30			Hiren
3	lastname	VARCHAR	30			Joshi
4	password	VARCHAR	64			
5	email	VARCHAR	150			hiren@gmail.com
6	user_id	INT	5	user->user_id	Foreign Key	17



## **Faculty\_complaint category Table**

Serial no	Field name	Type	Size	Link to	Constraints	Example
1	faculty_complaint_cat	INT	5		Primary key	1
2	Faculty_ID	INT	5	faculty->faculty_id		8
3	Complaint_Category_ID	INT	5	Complaint_category_ID		1

# SCREENSHOTS



## Registration Form

### Sign Up

First Name

Last Name

Email

Password

User Category

[Register](#)

Already a member? [Sign In](#)

This email is used, please try another one.

[Go Back](#)





## Login Form

A login form mockup centered on a light blue background. The form is a white rounded rectangle with a subtle shadow. It has a title 'Login' at the top. Below it are two input fields: 'Email' with the text 'tirthm@gmail.com' and 'Password' with five dots. A purple 'Login' button is below the password field. At the bottom, it says 'Don't have an account? [Sign up](#)'.



## Home Page

A home page mockup for a 'Grievance Management System'. It features a dark grey header with the title 'Grievance Management System' in white. Below the header is a navigation bar with 'Home' and 'Your Grievances' on the left, and 'Edit Profile' and 'Logout' on the right. The main content area has a light grey background and contains a welcome message: 'Welcome to our Grievance Management System!' followed by 'If you have any grievances or complaints, please click the button below to submit them.' and a dark grey 'Submit a Grievance' button.



## Submit Grievance Form

### Complaint Submission Form

**Complaint ID:**

**Complaint Category**  

Select Complaint Category

**Complaint Description:**

**Complaint Document (PDF):**  

Choose File

No file chosen

Submit Complaint

### Complaint Submission Form

**Complaint ID:**

**Complaint Category**  

Cleaning and Management

**Complaint Description:**  

This is the issue regarding the cleaning and management of the class

**Complaint Document (PDF):**  

Choose File

complaint.pdf

Submit Complaint



## Submitting Grievance Successfully

### Complaint Details

**Complaint ID:** C-270624145554227

**Status:** Processing

**Complaint Description:** cleaning

**Registration Date:** 2024-06-27 11:26:41

---

**Complaint ID:** E-270624135822205

**Status:** Pending

**Complaint Description:** exam

**Registration Date:** 2024-06-27 10:28:32

---

**Complaint ID:** C-270624111523199

**Status:** Pending

**Complaint Description:** This is the issue regarding the cleaning and management of the class



# Edit Profile

[Home](#)  
[Log Out](#)

### Change Profile

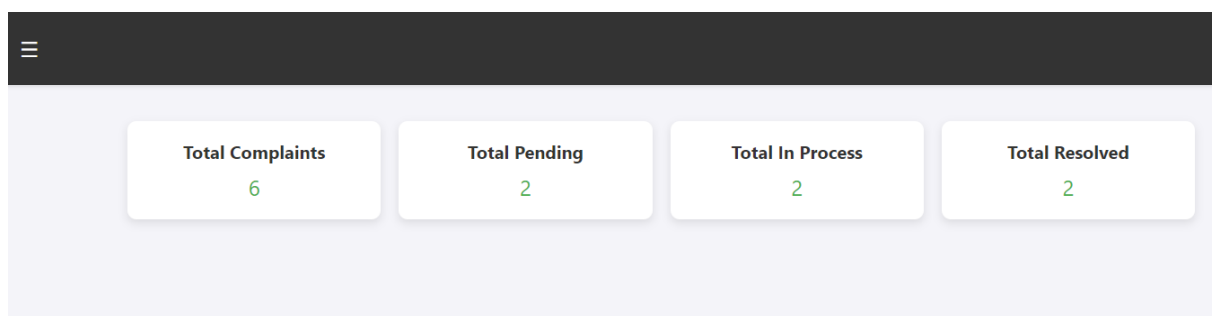
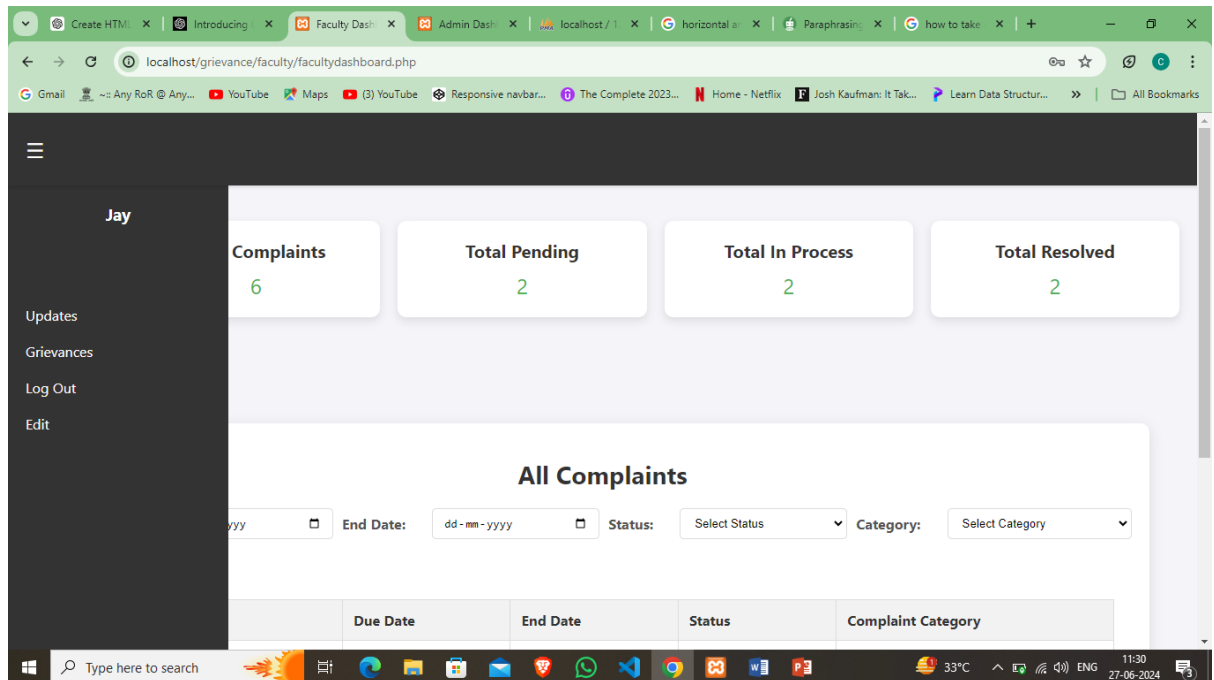
Firstname:

Lastname:

Email:

[Update](#)

## ❖ Faculty Dashboard



- The list of complaints of the category assigned to the faculty and their status.



## Filter Reports

### All Complaints

Due Date:

End Date:

Status:

Category:

Filter

Complaint ID	Due Date	End Date	Status	Complaint Category
C-060524110353894	2024-05-06	2024-05-21	Pending	7
C-080524215009468	2024-05-08	2024-05-23	Resolved	7
C-240624182824409	2024-06-24	2024-07-09	Processing	7
C-260624155344270	2024-06-26	2024-07-11	Processing	7
C-260624163555757	2024-06-26	2024-07-11	Resolved	7
C-270624111523199	2024-06-27	2024-07-12	Pending	7

### All Complaints

Due Date:

End Date:


Status:

Category:

Filter

Complaint ID	Due Date	End Date	Status	Complaint Category
C-060524110353894	2024-05-06	2024-05-21	Pending	7
C-270624111523199	2024-06-27	2024-07-12	Pending	7

## ❖ Grievances Assigned list

Faculty Dashboard

### Complaints Assigned to You

Welcome, Jay!

**Complaint ID: C-060524110353894**

Registration Date: 2024-05-06 07:34:12

Status: Pending

[Open](#)[Delete](#)

**Complaint ID: C-080524215009468**

Registration Date: 2024-05-08 18:20:28

Status: Resolved

[Open](#)[Delete](#)

**Complaint ID:** C-270624111523199

**Due Date:** 2024-06-27

**End Date:** 2024-07-12

**Status:** Pending ▼

**Complaint Description:** This is the issue regarding the cleaning and management of the class

**Student Name:** tirth mehta

View Document

Back

Delete



**Complaint ID:** C-270624114942036

**Due Date:** 2024-06-27

**End Date:** 2024-07-12

**Status:** Pending ▼

Pending  
Processing  
Resolved

**Complaint Description:** cleaning

**Student Name:** tirth mehta

[View Document](#)

[Back](#)

[Delete](#)

**Complaint ID:** C-270624114942036

**Due Date:** 2024-06-27

**End Date:** 2024-07-12

**Status:**

Processing

**Complaint Description:** cleaning

**Student Name:** tirth mehta

View Document

Back

Delete

**Complaint Details**

**Complaint ID:** C-270624114942036

**Status:**

Processing

**Complaint Description:** cleaning

**Registration Date:** 2024-06-27 08:19:50

Delete Complaint

Change of the status from “Pending “ to “Processing in the faculty dashboard and we can see the change of the status in the Student side .



# Complaint Document

C-270624114942036.pdf 1 / 2 100%

1

2

From,  
Tirth Mehta,  
Msc(cs)-6

To,  
Hod Mam  
Department of Computer Science

Subject: Complaint Regarding Cleanliness and Management Issues in Classrooms

Respected Mam,  
I hope this letter finds you in good health and spirits. I am writing to formally  
~~lodge a complaint regarding the cleanliness and management issues in the~~



# Admin Dashboard



## Department Grievance Admin Dashboard

Number of Users 28	Number of Faculty 7	Total Complaints 18
Resolved Complaints 4	Processing Complaints 8	Pending Complaints 6



## Users

User Data			
Aagam Jain	aagam@gmail.com	Student	Delete
janvi chauhan	janvi.chuahan	Student	Delete
Ankit Yadav	ankit@gmail.com	Student	Delete
Ansh Yadav	ansh@gmail.com	Student	Delete
Aryan Hirpara	aryan@gmail.com	Student	Delete
<div>&lt; Prev 1 2 3 4 5 6 Next &gt;</div>			

## ❖ Faculty Users

Faculty		
Bhumika Shah	bhumika@gmail.com	Delete
Jinali Shah	jinali@gmail.com	Delete
Jyotsana Mam	jjyotsana@gmail.com	Delete
Mehul Shah	mehul@gmail.com	Delete
Hardik Joshi	hardik@gmail.com	Delete
<div>&lt; Prev 1 2 Next &gt;</div>		

## ❖ Student Users

Students		
Aagam Jain	aagam@gmail.com	Delete
Ankit Yadav	ankit@gmail.com	Delete
Ansh Yadav	ansh@gmail.com	Delete
Aryan Hirpara	aryan@gmail.com	Delete
Riya Patel	riya@gmail.com	Delete
<div><div></div><div></div><div></div><div>Next</div></div> <div>&lt; Prev 1 2 3 Next &gt;</div>		



## Grievances

User Complaints					
C-270624114525675	2024-06-27	2024-07-12	Pending	<a href="#">Open</a>	<a href="#">Delete</a>
C-270624111523199	2024-06-27	2024-07-12	Pending	<a href="#">Open</a>	<a href="#">Delete</a>
C-260624163555757	2024-06-26	2024-07-11	Resolved	<a href="#">Open</a>	<a href="#">Delete</a>
E-260624162852952	2024-06-26	2024-07-11	Processing	<a href="#">Open</a>	<a href="#">Delete</a>
C-260624155344270	2024-06-26	2024-07-11	Processing	<a href="#">Open</a>	<a href="#">Delete</a>

[< Prev](#)[1](#)[2](#)[3](#)[4](#)[5](#)[Next >](#)



# Filter Reports

## All Complaints

Due Date:  End Date:  Status:  Category:

Complaint ID	Due Date	End Date	Status	Complaint Category
E-050524233751409	2024-05-05	2024-05-20	Pending	Exam Cell
L-060524001635525	2024-05-05	2024-05-20	Processing	Laboratory
AB-060524062903858	2024-05-06	2024-05-21	Pending	Accounts and Billing
S-060524101048245	2024-05-06	2024-05-21	Pending	Safety and Security
Li-060524105033115	2024-05-06	2024-05-21	Pending	Library
S-060524105558602	2024-05-06	2024-05-21	Processing	Safety and Security
C-060524110353894	2024-05-06	2024-05-21	Pending	Cleaning and Management
T-060524114244380	2024-05-06	2024-05-21	Processing	Technical issues

## Conclusion

- The system is beneficial for departmental level and interaction of the users.
- With its ability to track grievances and manage them accordingly and to improve the overall academic experience by providing a streamlined, efficient, and transparent mechanism for handling complaints.
- This platform not only improves the efficiency of the grievance handling process but also fosters a culture of accountability and transparency within the department. Additionally, the ability to filter and generate detailed reports from the data collected enables the department to identify trends, make data-driven decisions, and continually improve the quality of its facilities and services.
- Overall, the Department Grievance Management System is a significant step towards creating a more supportive, responsive, and conducive environment for all members of the academic community. By addressing and resolving grievances promptly and effectively, the system contributes to a better, more harmonious academic environment.



## **Future Scope**

- For the future scope. I'd like to provide a notification procedure through which stakeholders can get changes. For example, if a faculty member receives a grievance based on the category assigned, they may receive a note in the mail. Another type of information to be presented on the website is that they have unread or pending grievances, with a track provided to the faculty.
- Improved administrative functionality and dynamic handling. Also, consider the overall website.
- Admin should be allowed to assign grievances to faculty members rather than the default category.
- Grievance period: 15 days. If the issue is not fixed within that time frame, the status will be disabled, and the student will be notified.

## **Bibliography**

- <https://epfigms.gov.in/grievance/grievancemaster>
- <https://www.w3schools.com/>
- <https://pgportal.gov.in/>