

**MINI PROJECT REPORT  
ON  
RAGGING MANAGEMENT SYSTEM**

*Submitted By*

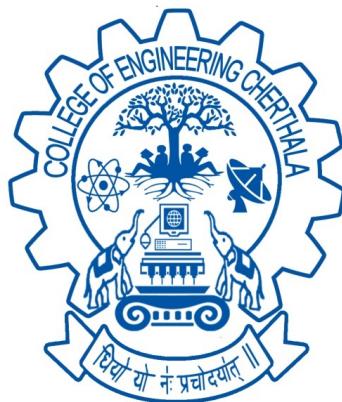
**ADARSH P (CEC22MCA-2002)**

*under the esteemed guidance of*

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**DECEMBER 2023**

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**RAGGING MANAGEMENT SYSTEM**

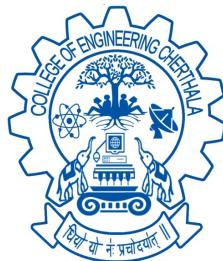
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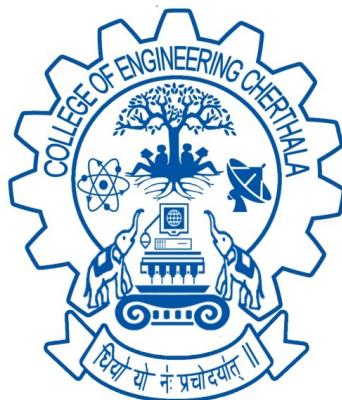
***Mrs. Vishnupriya G S***

*In partial fulfillment of the requirements for the award of the degree  
in  
Master of Computer Application  
of  
APJ Abdul Kalam Technological University*



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**C E R T I F I C A T E**

This is to certify that, the project report titled **RAGGING MANAGEMENT SYSTEM** is a bonafide record of the **20MCA245 MiniProject** presented by **ADARSH P(CEC22MCA-2002)**, Third Semester MCA student, under our guidance and supervision, in partial fulfillment of the requirements for the award of the **MCA** degree of **APJ Abdul Kalam Technological University**.

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We would like to thank **Dr. Jaya V.L**, our Principal, who has provided with the best facilities and atmosphere for the project completion and presentation. We would also like to thank our HoD **Mr. Manilal D L** (Associate Professor, Department Of Computer Engineering), our project coordinators **Mrs. Anitha M A** and **Mrs. Janu R Panicker** (Assistant Professor, Department Of Computer Engineering), and our guide **Mrs. Vishnupriya G S** (Assistant Professor, Department Of Computer Engineering) for the help extended and also for the encouragement and support given to us while doing the project.

We would like to thank my dear friends for extending their cooperation and encouragement throughout the project work, without which we would never have completed the project this well. Thank you all for your love and also for being very understanding.

## **ABSTRACT**

"Feel the fear fade away" as you enter the Anti-Ragging Cell's online haven. Here, your voice takes center stage, resonating with the unwavering support of our dedicated team, the Anti-Ragging Squad Committee. "Together, we stand alongside our principal and law enforcement partners, forming an impenetrable shield against ragging."

This platform is more than just a place to report your concerns. It's a sanctuary where your voice is heard and acted upon immediately. You'll receive timely updates and resolutions, leaving you confident that your well-being is our top priority.

But we go beyond investigations. We believe in fostering a sense of belonging. Here, you're not just another case file; you're part of a community where communication flows freely, and trust is the cornerstone of our interactions.

More than just a system, the Anti-Ragging Cell's online platform is a living, breathing movement. It's a powerful beacon amplifying your voice, a testament to our institution's commitment to your safety, and a constant reminder that "you are never alone."

# Contents

<b>1</b>	<b>INTRODUCTION</b>	<b>1</b>
<b>2</b>	<b>PROBLEM STATEMENT</b>	<b>2</b>
2.1	Problem Statement . . . . .	2
2.2	Objective . . . . .	2
<b>3</b>	<b>LITERATURE SURVEY</b>	<b>4</b>
3.1	Case Study 1 . . . . .	4
3.2	Case Study 2 . . . . .	4
<b>4</b>	<b>PROPOSED SYSTEM</b>	<b>5</b>
4.1	Solution . . . . .	5
4.2	Feasibility Study . . . . .	6
4.2.1	Technical Feasibility . . . . .	6
4.2.2	Social Feasibility . . . . .	6
4.2.3	Organizational Feasibility . . . . .	7
4.2.4	Legal Feasibility . . . . .	7
4.2.5	Economic Feasibility . . . . .	7
<b>5</b>	<b>SOFTWARE REQUIREMENT SPECIFICATION</b>	<b>8</b>
5.1	Overall Description . . . . .	8
5.1.1	Product Perspective . . . . .	8
5.1.2	Product Functionality . . . . .	8
5.2	User Classes and Characteristics . . . . .	9

5.2.1	Operating Environment . . . . .	9
5.2.2	Design and Implementation Constraints . . . . .	9
5.2.3	Assumptions and Dependencies . . . . .	9
5.3	External Interface Requirements . . . . .	9
5.3.1	User Interfaces . . . . .	9
5.3.2	Hardware Interfaces . . . . .	10
5.3.3	Software Interfaces . . . . .	10
5.4	Non-functional Requirements . . . . .	10
<b>6</b>	<b>SYSTEM DESIGNS</b>	<b>11</b>
6.1	Modules . . . . .	11
6.2	Use-case Diagram . . . . .	12
6.3	Sequence Diagram . . . . .	14
6.4	ER Diagram . . . . .	17
6.5	Data Flow Diagram . . . . .	19
6.5.1	Level 0 . . . . .	19
6.5.2	Level 1 . . . . .	20
6.5.3	Level 2 . . . . .	20
<b>7</b>	<b>SOFTWARE AND HARDWARE REQUIREMENT</b>	<b>22</b>
7.1	Software Requirements . . . . .	22
7.2	Hardware Requirements . . . . .	22
7.2.1	System Requirements . . . . .	22
<b>8</b>	<b>IMPLEMENTATION</b>	<b>23</b>
8.1	Coding Environment Used . . . . .	23
8.2	Login Module . . . . .	23
8.3	Squad Management . . . . .	24
8.4	Complaint Management . . . . .	24
8.5	Register Complaint . . . . .	24
8.6	Track Complaint . . . . .	24

<b>9 RESULT AND ANALYSIS</b>	<b>25</b>
9.1 Screenshots . . . . .	25
9.1.1 Home . . . . .	25
9.1.2 Home-Squad Signup . . . . .	26
9.1.3 Home-Admin and Squad Login . . . . .	26
9.1.4 Admin's View Squad Login Requests . . . . .	27
9.1.5 Admin Approved Squad . . . . .	27
9.1.6 Admin Profile . . . . .	28
9.1.7 Squad Profile . . . . .	28
9.1.8 Complaint Register . . . . .	29
9.1.9 Generated Complaint ID . . . . .	29
9.1.10 Complaint Processing Stages . . . . .	30
9.1.11 Complaint View . . . . .	30
9.1.12 Squad Added Complaint Response . . . . .	31
9.1.13 View Response by Tracking . . . . .	31
9.1.14 Anti-Ragging Cell Information . . . . .	32
9.1.15 Frequently Asked Questions (FAQ) . . . . .	32
<b>10 SAMPLE CODES</b>	<b>33</b>
10.1 Login . . . . .	33
10.2 Signup . . . . .	34
10.3 Marking Complaint Progress . . . . .	34
10.4 Report Generation . . . . .	35
10.5 Track Complaint . . . . .	35
10.6 Complaint View Generation . . . . .	36
10.7 Profile Creation . . . . .	36
<b>11 CONCLUSION &amp; FUTURE SCOPE</b>	<b>37</b>
<b>12 REFERENCES</b>	<b>38</b>

# List of Figures

6.1	Usecase diagram . . . . .	13
6.2	Victim . . . . .	14
6.3	Squad . . . . .	15
6.4	Admin . . . . .	16
6.5	ER Diagram . . . . .	18
6.6	Level 0 DFD . . . . .	19
6.7	Level 1 DFD . . . . .	20
6.8	Squad Management Module . . . . .	20
6.9	Complaint Response Module . . . . .	21
6.10	Complaint Registration Module . . . . .	21
9.1	Home . . . . .	25
9.2	Home-Squad Signup . . . . .	26
9.3	Home-Admin and Squad Login . . . . .	26
9.4	Admin's View Squad Login Requests . . . . .	27
9.5	Admin Approved Squad . . . . .	27
9.6	Admin Profile . . . . .	28
9.7	Squad Profile . . . . .	28
9.8	Complaint Register . . . . .	29
9.9	Generated Complaint ID . . . . .	29
9.10	Complaint Processing Stages . . . . .	30
9.11	Complaint View . . . . .	30
9.12	Squad Added Complaint Response . . . . .	31

9.13	View Response by Tracking . . . . .	31
9.14	Anti-Ragging Cell Information . . . . .	32
9.15	Frequently Asked Questions (FAQ) . . . . .	32
10.1	Login . . . . .	33
10.2	Signup . . . . .	34
10.3	Marking Complaint Progress . . . . .	34
10.4	Report Generation . . . . .	35
10.5	Track Complaint . . . . .	35
10.6	Complaint View Generation . . . . .	36
10.7	Profile Creation . . . . .	36

# **Chapter 1**

## **INTRODUCTION**

Welcome to the Anti Ragging Cell, We stand as a beacon of hope, unwavering in our commitment to eradicate the harmful practice of ragging, which encompasses any form of physical or psychological abuse, harassment, or humiliation inflicted upon students by their peers. Our significance lies in not just reacting to ragging incidents, but in proactively preventing them. We are bound by the legal framework outlined in the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009.

We offer a safe haven where you can confidentially share your experiences with our dedicated Anti-Ragging Squad. This squad, carefully selected and approved by our esteemed principal, will listen attentively, investigate thoroughly, and take decisive action to address your concerns. Our platform empowers you to track the progress of your complaint every step of the way. You can see the stage it has reached, be it Stage 1 – initial investigation and action, or Stage 2 – deeper investigation and resolution. Whether the complaint finds resolution within Stage 1 or necessitates further investigation in Stage 2, you will be kept informed throughout the process. We ensure complete confidentiality, protecting your identity and privacy throughout the process. You can register your complaint easily, providing your contact details so we can keep you updated. Additionally, our platform displays a transparent overview of the total complaints received, resolved, and closed, showcasing our constant progress in creating a safer campus for all. Join us in this movement. Let your voice be heard, and together, let us build a brighter future where ragging is a thing of the past.

## **Chapter 2**

# **PROBLEM STATEMENT**

### **2.1 Problem Statement**

An anti-ragging cell aims to address persistent and serious problem within many educational institutions, creating a hostile and unsafe learning environment for students. This practice, encompassing physical and psychological abuse, harassment, and humiliation, inflicts significant emotional and even physical harm on victims, impacting their well-being, academic performance, and overall sense of belonging within the community.

### **2.2 Objective**

Objectives of an anti-ragging cell are to provide a safe and supportive environment where every student can pursue their education without fear. To ensure that the institution complies with all legal and regulatory requirements related to anti-ragging measures.

1. Ensure Safety and Security: Create a safe and secure environment where students feel comfortable and empowered to report ragging incidents without fear of retribution. Implement robust measures to ensure the protection of victims and witnesses.
2. Promote Awareness and Education: Educate all students, faculty, and staff about the definition of ragging, its harmful consequences, and existing reporting mechanisms. Disseminate information through various channels, online resources, and awareness campaigns.

3. Facilitate Reporting and Investigation: Provide accessible and confidential channels for reporting ragging incidents. Establish a transparent and efficient process for investigating complaints and ensuring swift and impartial justice.
4. Implement Effective Sanctions: Hold perpetrators accountable for their actions through comprehensive disciplinary actions, including suspension, expulsion, and legal proceedings. Ensure that sanctions serve as a deterrent to future ragging incidents.
5. Build Partnerships: Collaborate with law enforcement agencies, NGOs, and other educational institutions to share best practices and develop comprehensive solutions to ragging. Leverage external expertise and resources to strengthen the Anti-Ragging Cell's capacity.
6. Promote Transparency and Accountability: Publicly report on the number of ragging incidents reported, investigated, and resolved. Hold regular meetings with students and stakeholders to discuss progress and address concerns.

## **Chapter 3**

### **LITERATURE SURVEY**

#### **3.1 Case Study 1**

A STUDY AND ANALYSIS OF ANTI-RAGGING CELL- Anti-Ragging Cell has become an integral part of todays system. University X implemented a dedicated Anti-Ragging Cell with awareness campaigns, workshops, and an online reporting system. This led to a significant decrease in ragging incidents and increased student confidence in reporting. However, challenges like awareness among new students and stronger sanctions for perpetrators remain.

#### **3.2 Case Study 2**

ANTI-RAGGING CELL AS ONLINE PLATFORM FOR RAGGING REPORTING- The project aims in developing a web system which reports complaints named “ANTI-RAGGING CELL” launched an online platform for anonymous reporting and tracking ragging incidents. This platform increased reporting rates, facilitated quicker responses, and empowered students. However, limitations like potential for false reports and need for better user guidance were identified.

## **Chapter 4**

# **PROPOSED SYSTEM**

### **4.1 Solution**

The proposed anti-ragging cell is designed to create a safe and inclusive learning environment that empowers students to speak out against ragging and holds perpetrators accountable, providing a comprehensive anti-ragging platform that leverages the power of technology while ensuring user privacy and support. Functions included are:

1. Anonymous reporting.
2. Real-time tracking.
3. Dedicated response team.
4. Fair and impartial investigations.
5. Educational and Awareness Information.
6. Continuous Monitoring.
7. Secure data storage.
8. Legal aid and assistance.
9. Clear and consistent guidelines.
10. Public disclosure of outcomes.

## **4.2 Feasibility Study**

The main objective of this study is to determine whether the proposed system is feasible or not. Mainly there are three types of feasibility study to which the proposed system is subjected as described below: Five key considerations are involved in this feasibility

- Technical Feasibility
- Social Feasibility
- Organizational Feasibility
- Legal Feasibility
- Economic Feasibility

The proposed system must be evaluated from a technical viewpoint first, and if technically feasible, their impact on the organization must be assessed. If compatible, the operational system can be devised. Then those must be tested for economic feasibility.

### **4.2.1 Technical Feasibility**

The technologies required for the development is identified. Since, both the hardware and software requirements are satisfied, it is technically feasible.

### **4.2.2 Social Feasibility**

The proposed project will be socially feasible. The social feasibility determines whether the project would be accepted by the people. This assumption would in general examine the probability that the project would have to be accepted by the group of people that are directly affected by the proposed system.

#### **4.2.3 Organizational Feasibility**

The success of the platform depends on strong institutional support and collaboration. Leadership must demonstrably support the initiative and allocate resources effectively. Active involvement of students, faculty, staff, and law enforcement is crucial.

#### **4.2.4 Legal Feasibility**

The platform must comply with existing legal frameworks and data privacy regulations. Institutional policies ensure alignment with existing anti-ragging policies and disciplinary procedures. Legal counsel consult with legal experts to ensure compliance and address potential legal challenges.

#### **4.2.5 Economic Feasibility**

The proposed platform requires initial investment for development and ongoing costs for maintenance and support. However, the long-term benefits are expected to outweigh the costs.

## **Chapter 5**

# **SOFTWARE REQUIREMENT SPECIFICATION**

### **5.1 Overall Description**

Anti-Ragging Cell provides a safe and secure online space for students to report ragging incidents, track their progress, and access support resources. The platform also facilitates efficient complaint management and investigation procedures, ensuring timely and effective responses.

#### **5.1.1 Product Perspective**

This project aims to develop a web-based application designed to combat ragging within educational institutions. It enables administrators to manage the squad, empowering them to investigate incidents and provide updates to victims. Additionally, it allows users to submit complaints and track responses from the squad.

#### **5.1.2 Product Functionality**

This project encompasses various functions outlined below:

- Victims can submit complaints
- The squad can update responses to complaints
- Victims can track responses from the squad
- Administrators can manage the squad

## 5.2 User Classes and Characteristics

- Squad members can sign up and log in after admin approval.
- Admins can manage the squad, enabling them to view complaints and update responses.
- Victims can directly submit their complaints and track responses from the squad.

### 5.2.1 Operating Environment

- Any computer with a web browser.
- Any smartphone with a web browser.

### 5.2.2 Design and Implementation Constraints

- Frontend developed using Semantic UI, Ajax, Ejs, jQuery.
- Backend developed using Node.js, Express.js, and MySQL database.

### 5.2.3 Assumptions and Dependencies

- Computer or smartphone with any browser.
- Stable internet connection.

## 5.3 External Interface Requirements

### 5.3.1 User Interfaces

The integrated system must provide a user interface accessible through any internet browser, major ones being Google Chrome and Internet Explorer. The interface should be user-friendly for all types of users.

### **5.3.2 Hardware Interfaces**

All components can run on personal computers with Windows OS, as well as other platforms like Linux and Unix. Basic requirements include a computer or a mobile device.

### **5.3.3 Software Interfaces**

The web app, when opened in a browser, connects to the MySQL database used for data storage.

## **5.4 Non-functional Requirements**

- Reliability: The system should consistently perform its intended functionality.
- Availability: The system should be available 24x7 for its intended functions.
- Portability: The system is designed to be cross-platform.
- Scalability: The system should be capable of expanding its service capabilities.
- Security: User data is stored securely, prioritizing data privacy.

## **Chapter 6**

# **SYSTEM DESIGNS**

### **6.1 Modules**

Modules utilized in this project are outlined below:

#### 1. Login and Signup

- Start
- Accept Gmail and password
- Check data in the database
- If an error occurs, display an error message
- If successful, log into the user dashboard
- Stop

#### 2. Squad Management

- Start
- Admin approves or deactivates the Squad
- Displays overall reports of complaints
- Stop

#### 3. Complaint Response

- Start
- Squad investigates victim complaints with the support team
- Adds responses and updates necessary actions
- Closes the complaint
- Stop

#### 4. Complaint Registration

- Start
- Fill required details and submit a complaint
- Fetch details from the database
- Display complaint ID and details
- Stop

#### 5. Tracking

- Start
- Enter the complaint ID
- Fetch details from the database
- Display responses from the squad
- Stop

## 6.2 Use-case Diagram

Use case diagrams model the functionality of a system using actors and use cases. Use cases are a set of actions, services, and functions that the system needs to perform. The below mentioned use case diagram has three actors:

- Admin

- Squads
  - Victims
1. The victim can submit a complaint. They also receive notifications of responses while tracking using the complaint ID.
  2. The squad can sign up. They can log in after admin approval and view the complaints, as well as update the responses.
  3. The admin can log in and manage the squad. Additionally, the platform automatically updates the report.

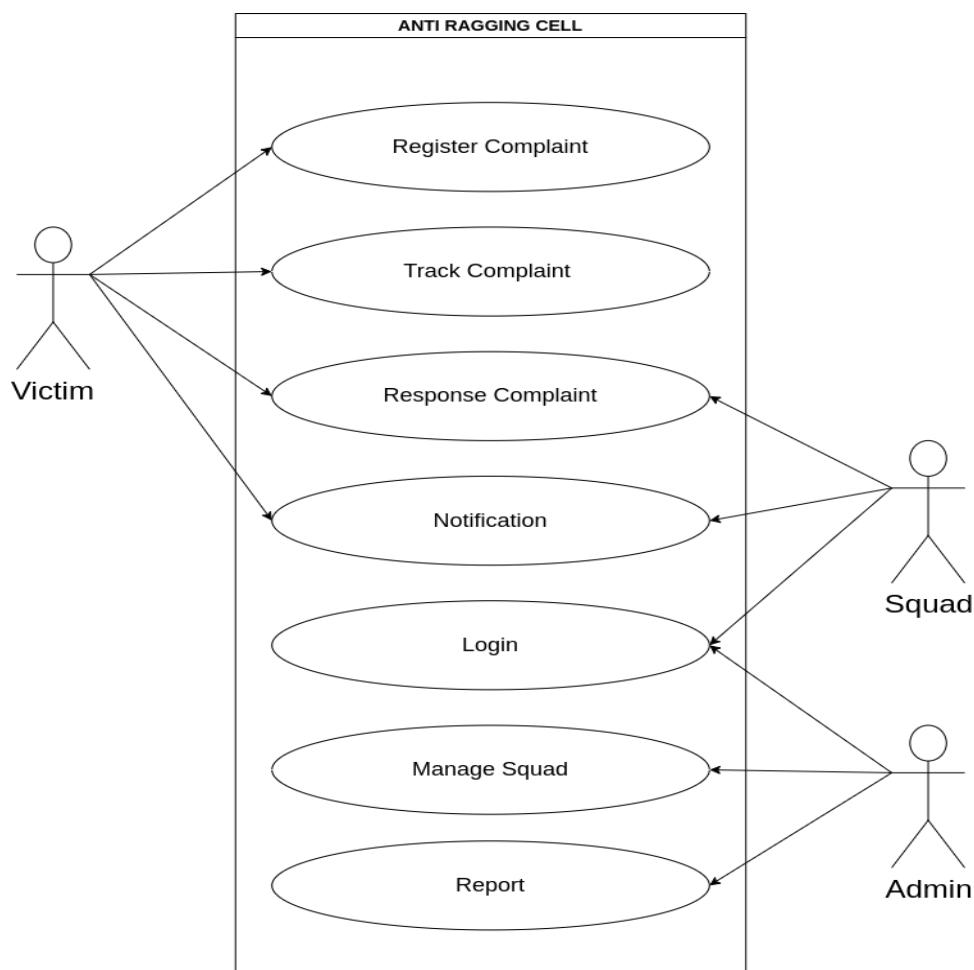


Fig. 6.1: Usecase diagram

### 6.3 Sequence Diagram

- The sequence diagram illustrates interactions using messages in the Anti-Ragging Cell between actors and objects.
- Two actors, Squads, and Admin, log into their accounts using the 'login()' message, allowing access after verification. Additionally, Squads can log in after admin approval.
- Various functionalities are available for the victim. They can independently submit complaints, implemented through the respective messages.

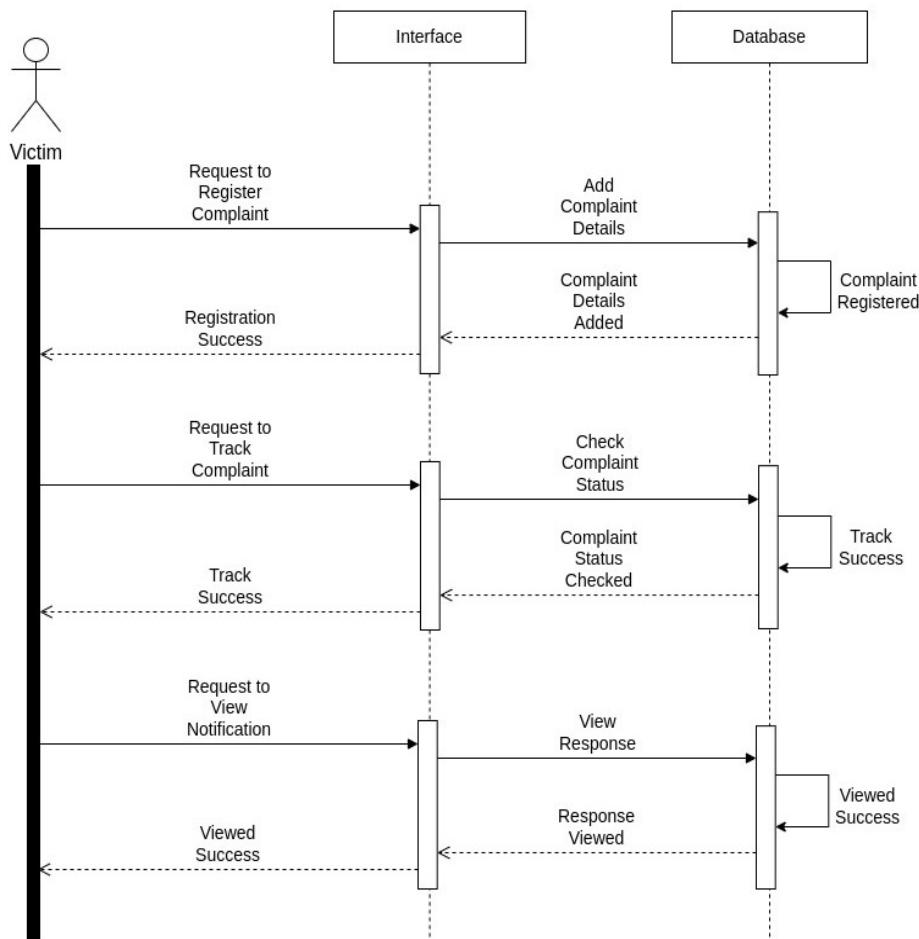


Fig. 6.2: Victim

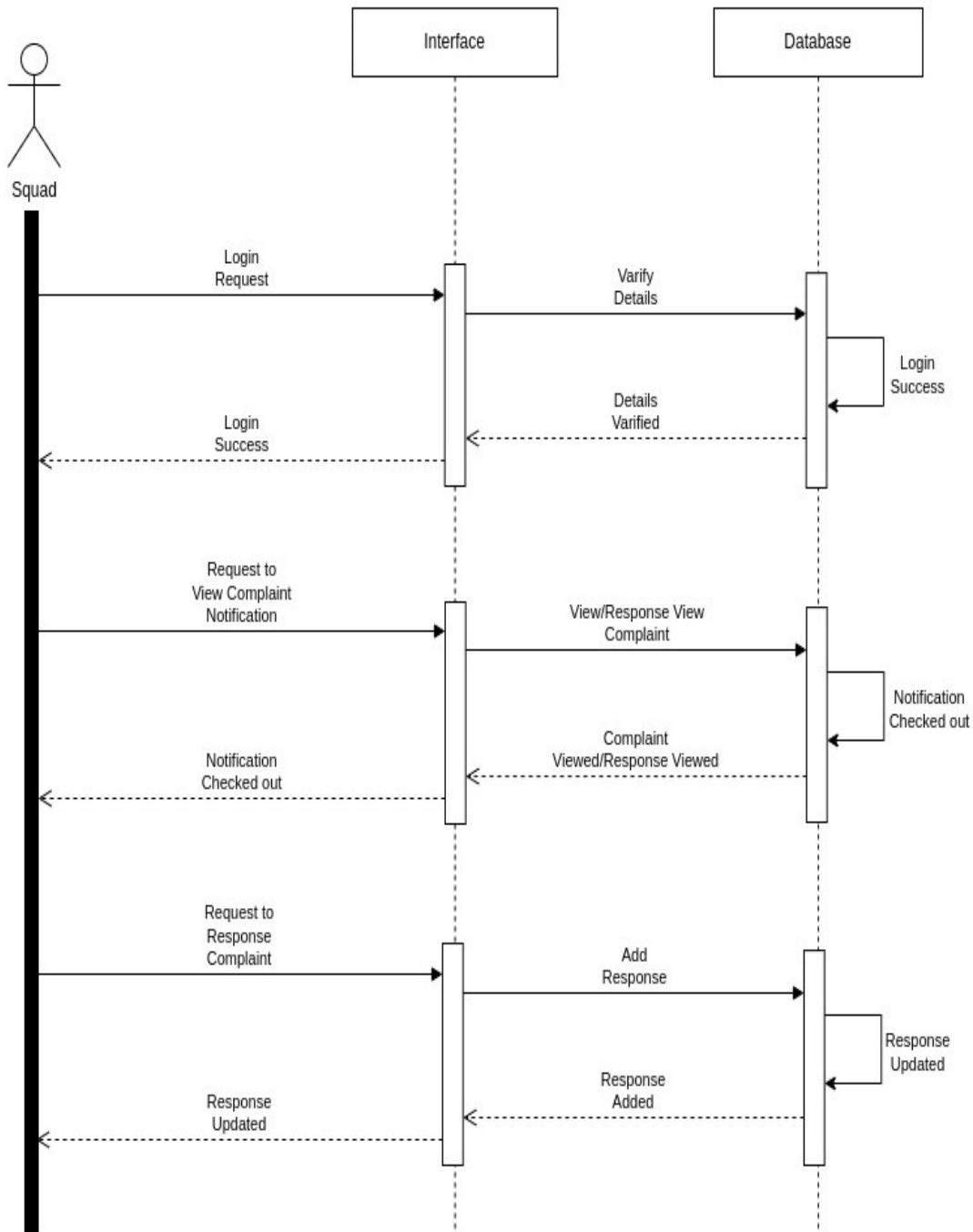


Fig. 6.3: Squad

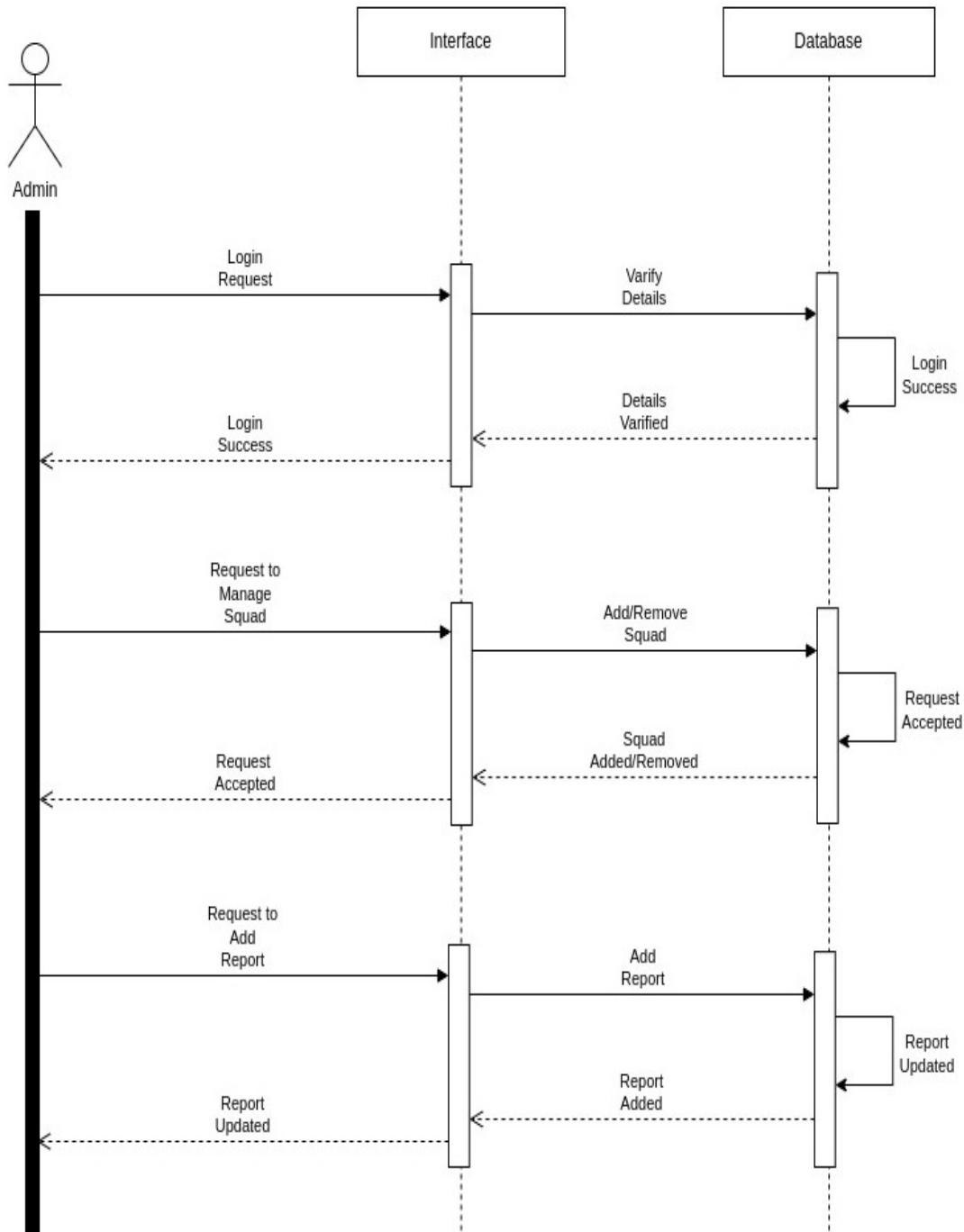


Fig. 6.4: Admin

## 6.4 ER Diagram

- Represents the model of the Anti-Ragging Cell Management System entity.
- Shows the relationship between the entity sets stored in the database of the Anti-Ragging Cell Management System.
- In the ER diagram, a victim registers a complaint with required information and views responses from the squad.
- The system then generates a complaint ID and allows updates by tracking with the complaint ID.
- The squad and admin can also log in to the platform, where the admin manages the squad, and the squad manages complaints.

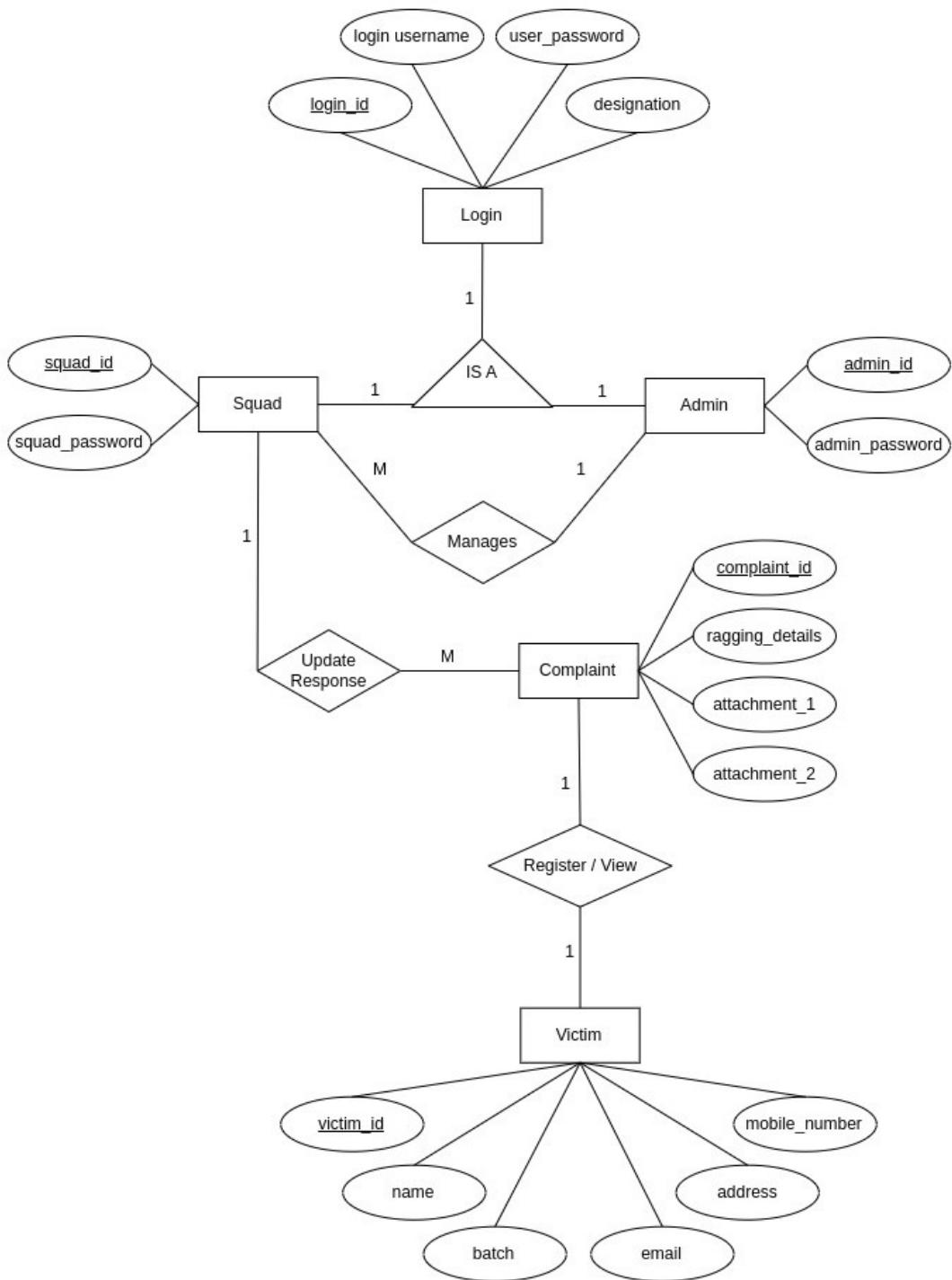


Fig. 6.5: ER Diagram

## 6.5 Data Flow Diagram

The data flow diagram (DFD) is used for classifying system requirements to major transformation that will become programs in system design. This is starting point of the design phase that functionally decomposes the required specifications down to the lower level of details

Bubbles: Represent the data transformations.

Lines: Represent the logic flow of data.

Data can trigger events and can be processed to useful information. Systems analysis recognizes the central goal of data in organizations.

### 6.5.1 Level 0

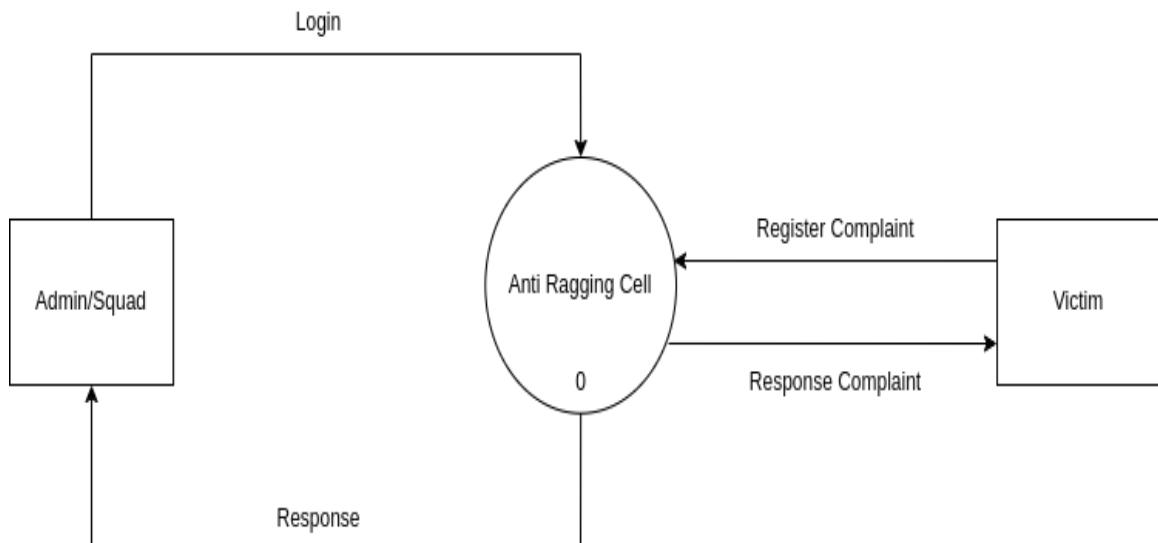


Fig. 6.6: Level 0 DFD

### 6.5.2 Level 1

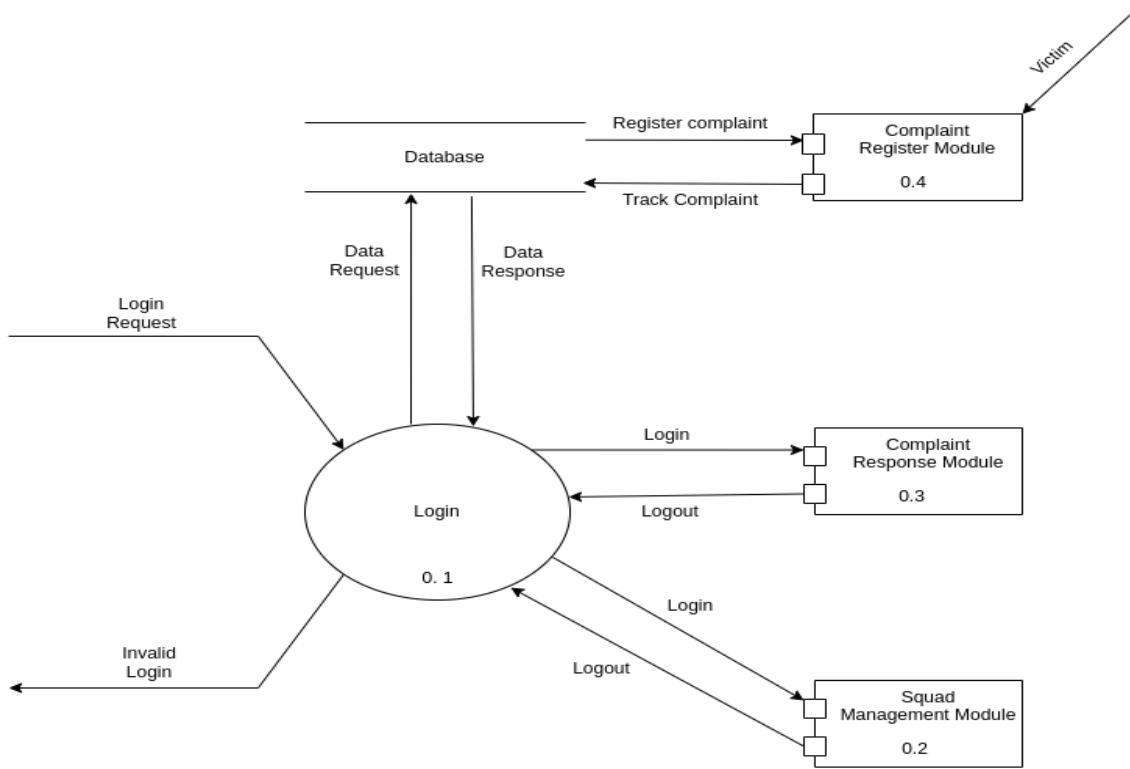


Fig. 6.7: Level 1 DFD

### 6.5.3 Level 2

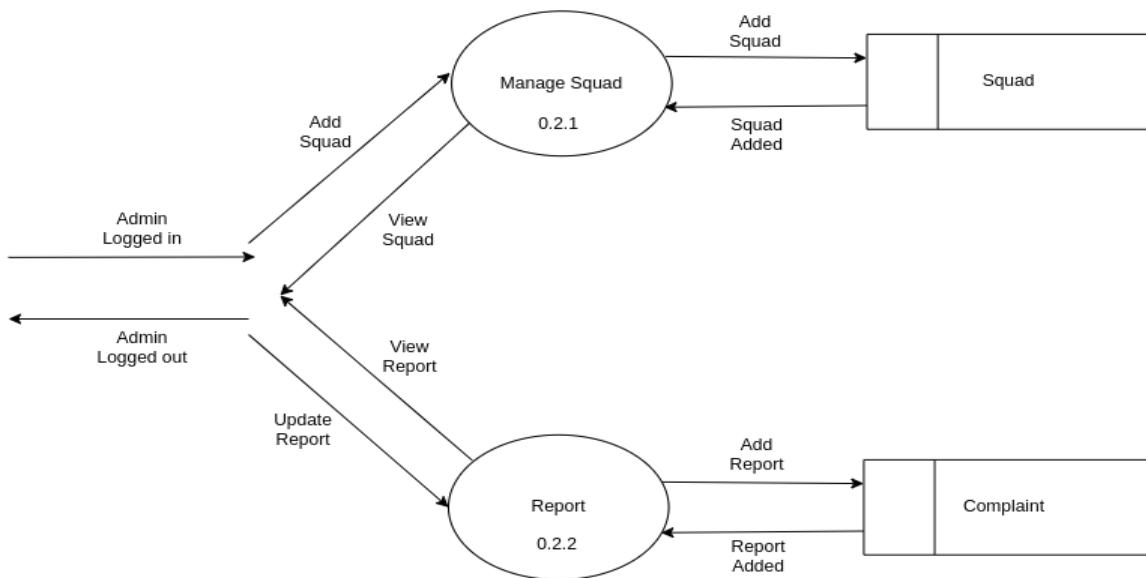


Fig. 6.8: Squad Management Module

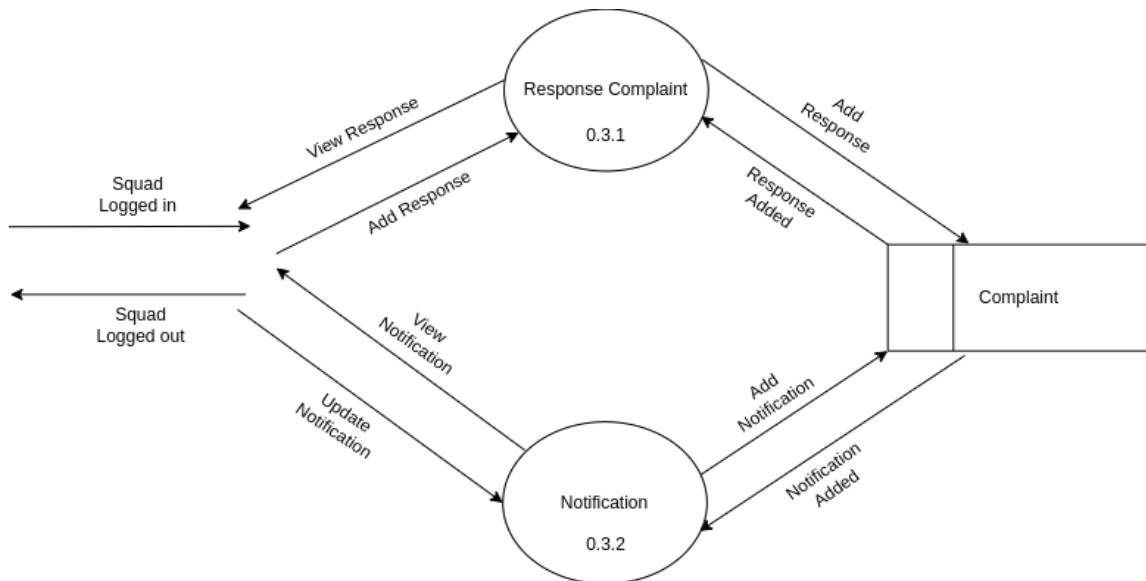


Fig. 6.9: Complaint Response Module

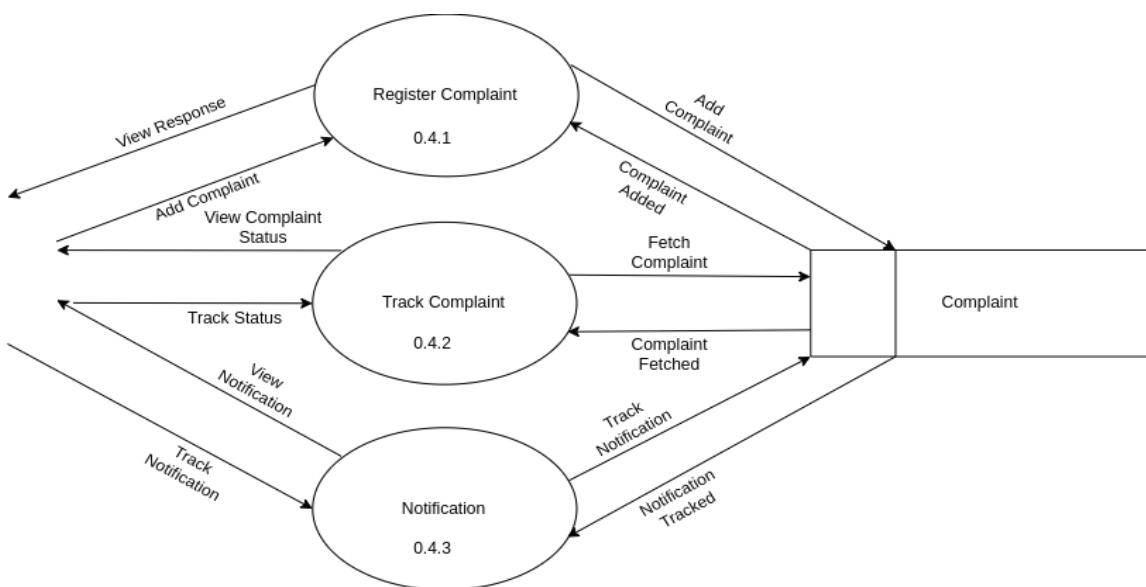


Fig. 6.10: Complaint Registration Module

## **Chapter 7**

# **SOFTWARE AND HARDWARE REQUIREMENT**

### **7.1 Software Requirements**

- Frontend : Semantic UI, Ajax, Ejs, jQuery.
- Backend : Node.js, Express.js, MYSQL using XAMPP

### **7.2 Hardware Requirements**

- Requires a phone, laptop or computer to access web browser.

#### **7.2.1 System Requirements**

- Processor : 7th GEN INTEL, I3
- Main memory :4GB
- Minimum CPU: 2 cores (2.30GHz)
- Minimum RAM : 4GB and above
- Minimum Storage: 50GB

## **Chapter 8**

# **IMPLEMENTATION**

An important aspect of system and analyst's job is to make sure that the new design implemented to establish standards. Implementation involves all these activities that take place to convert from the old system to new. A proper implementation is essential to provide reliable system to meet the requirements of a new computerized system will improve the efficiency of the entire system and reduce the labours involved

### **8.1 Coding Environment Used**

Visual Studio Code is a source-code editor developed by Microsoft for Windows, Linux and macOS. It includes support for debugging, intelligent code completion etc.... Xampp software is used to implement MYSQL database.

### **8.2 Login Module**

This module enables users to log in to the application. Access to the various functionalities provided by the application is granted only to valid users. The login page contains text fields to enter the Gmail and Password of the Admin and Squad, along with a Login button. Additionally, the login panel features a signup field for squad members.

### **8.3 Squad Management**

This panel is exclusively for the admin, allowing them to approve or deactivate the squad. Subsequently, squad members can directly log in from the login module.

### **8.4 Complaint Management**

This panel is exclusively for the squad, enabling them to view complaints from victims. After investigation, squad members can update the response status, such as stage 1, stage 2, resolved, or closed.

### **8.5 Register Complaint**

Victims can submit complaints by filling in the required details. Additionally, they have the option to attach files or proof if available.

### **8.6 Track Complaint**

Upon submission, victims receive a generated complaint ID, which they can use to track notifications of complaint responses from the squad.

## Chapter 9

# RESULT AND ANALYSIS

### 9.1 Screenshots

#### 9.1.1 Home

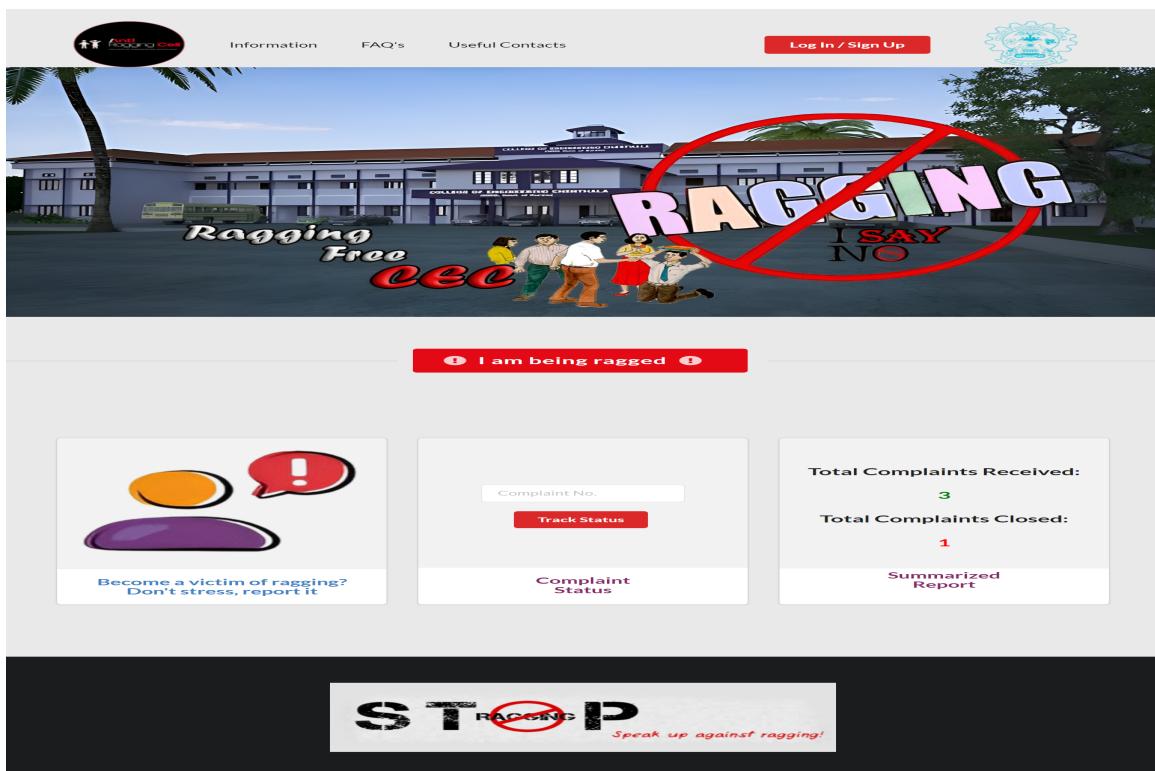


Fig. 9.1: Home

### 9.1.2 Home-Squad Signup

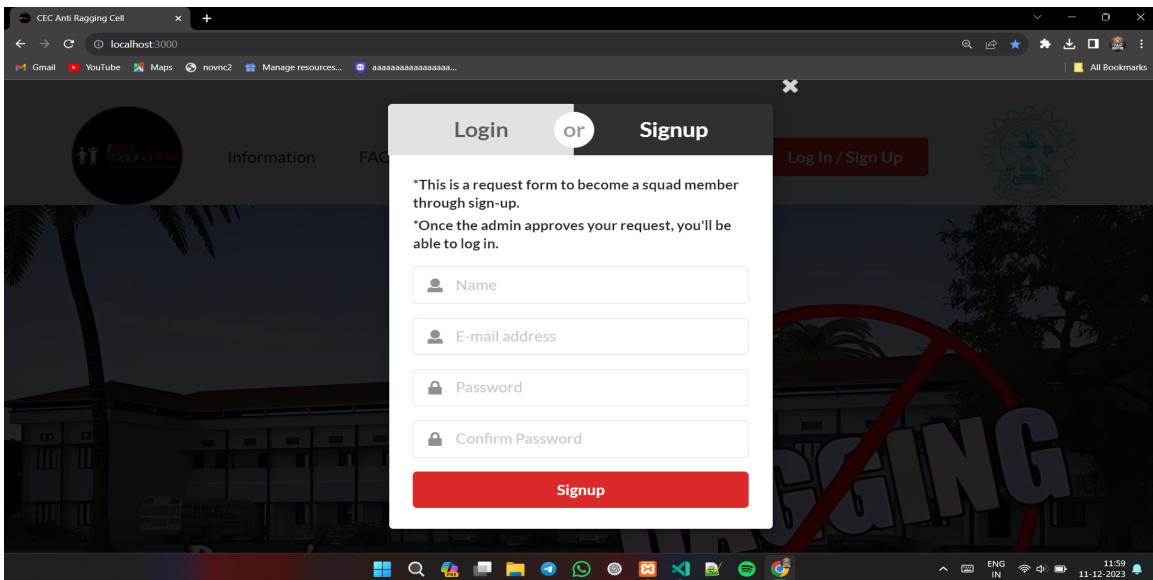


Fig. 9.2: Home-Squad Signup

### 9.1.3 Home-Admin and Squad Login

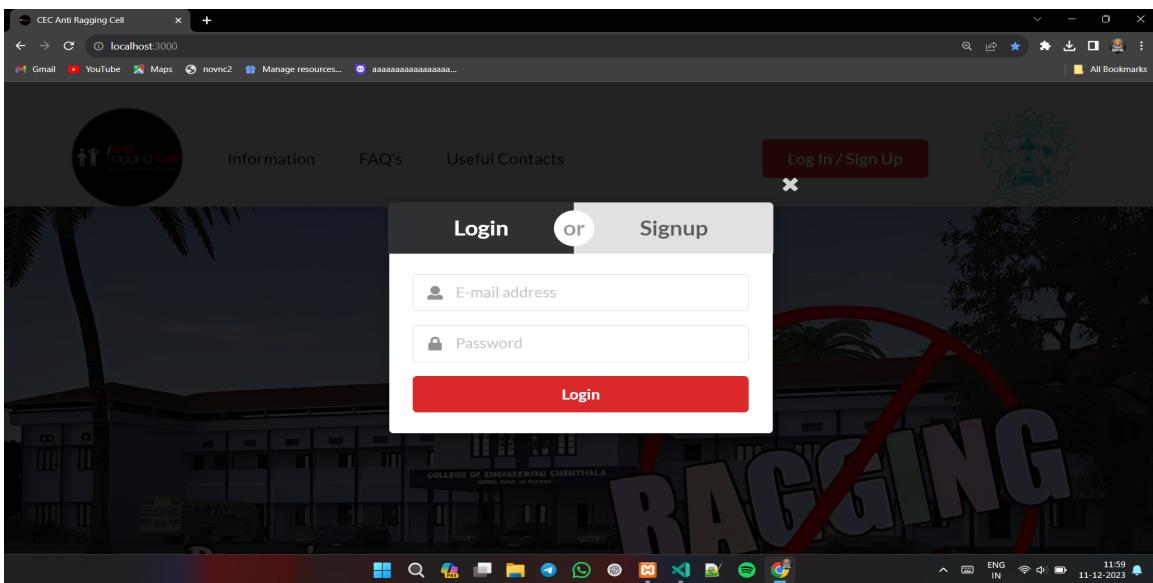


Fig. 9.3: Home-Admin and Squad Login

#### 9.1.4 Admin's View Squad Login Requests

The screenshot shows a web application interface for managing login requests. At the top, there is a logo for 'Anti Ragging Cell' and navigation links for 'Squads', 'Profile', and 'Logout'. On the right side, there is a logo of the college. Below the navigation, there is a filter bar with tabs: 'Unapproved' (which is selected), 'Approved', 'Deactivated', and 'All'. A table lists a single row of data:

ID	Email	Action
3	janu@gmail.com	<b>Approve</b>

Fig. 9.4: Admin's View Squad Login Requests

#### 9.1.5 Admin Approved Squad

The screenshot shows a web application interface for managing login requests. At the top, there is a logo for 'Anti Ragging Cell' and navigation links for 'Squads', 'Profile', and 'Logout'. On the right side, there is a logo of the college. Below the navigation, there is a filter bar with tabs: 'Unapproved' (disabled), 'Approved' (selected), 'Deactivated', and 'All'. A table lists a single row of data:

ID	Email	Action
2	anitha@gmail.com	<b>Deactivate</b>

Fig. 9.5: Admin Approved Squad

### 9.1.6 Admin Profile

Name: Dr. Jaya V.L.  
Mobile No.: 8137851318  
Email: admin@gmail.com  
Designation: Manage Squad  
Type: ADMIN  
Change Password  
Submit  
Reset  
Choose File No fil...hosen

Fig. 9.6: Admin Profile

### 9.1.7 Squad Profile

Name: Janu  
Mobile No.: 9446272712  
Email: janu@gmail.com  
Designation: Manage Complaints  
Type: SQUAD  
Change Password  
Submit  
Reset  
Choose File No fil...hosen

Fig. 9.7: Squad Profile

### 9.1.8 Complaint Register

Complainant Name  
Complainant Name

Victim Name  
Victim Name

Email  
Email

Mobile No.  
Mobile Number

Sem & Batch  
Semester and Batch

Address  
Address

Ragging Details: "To lodge your complaint, please provide detailed information, including your name, the location of the ragging incident, the time of occurrence, and the individuals involved. Please provide as much detail as possible."

Attachments

**Submit** **Reset**

Fig. 9.8: Complaint Register

### 9.1.9 Generated Complaint ID

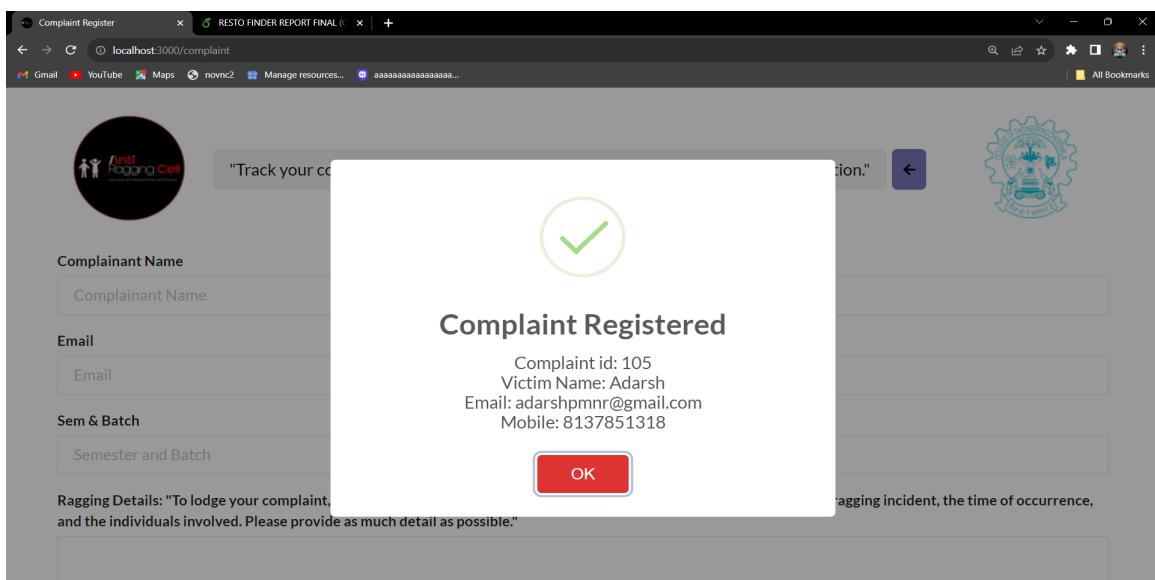


Fig. 9.9: Generated Complaint ID

### 9.1.10 Complaint Processing Stages

The screenshot shows a web-based application for managing complaints. At the top, there is a logo for 'Anti Ragging Cell' and navigation links for 'Complaints', 'Profile', and 'Logout'. To the right is the college crest. Below the header is a table titled 'Pending' with columns: id, victim, complainant, email, mobile, and actions (Open). There are two rows of data:

Pending	Stage 1	Stage 2	Resolved	Discarded	All
id	victim	complainant	email	mobile	
102	arya	ADARSH	adarshpmnr@gmail.com	8137851318	<button>Open</button>
103	Joji	Arjun	arjun@gmail.com	6282283145	<button>Open</button>

Fig. 9.10: Complaint Processing Stages

### 9.1.11 Complaint View

The screenshot shows a detailed view of a submitted complaint. At the top, it says 'Under Review' and 'Dashboard'. To the right is the college crest. The main form includes fields for Complainant Name (Arjun), Email (arjun@gmail.com), Sem & Batch (S3, MCA), Victim Name (Joji), Mobile No. (6282283145), Address (Vadakara), and Ragging Details (I was being ragged on the train when one of my seniors hit me, warning me about coming to college). There are sections for Attachments (Attachment 1: Use-case.jpg) and Responses. At the bottom, there is a dropdown for 'Mark Stage 1' and a 'Submit' button.

Fig. 9.11: Complaint View

### 9.1.12 Squad Added Complaint Response

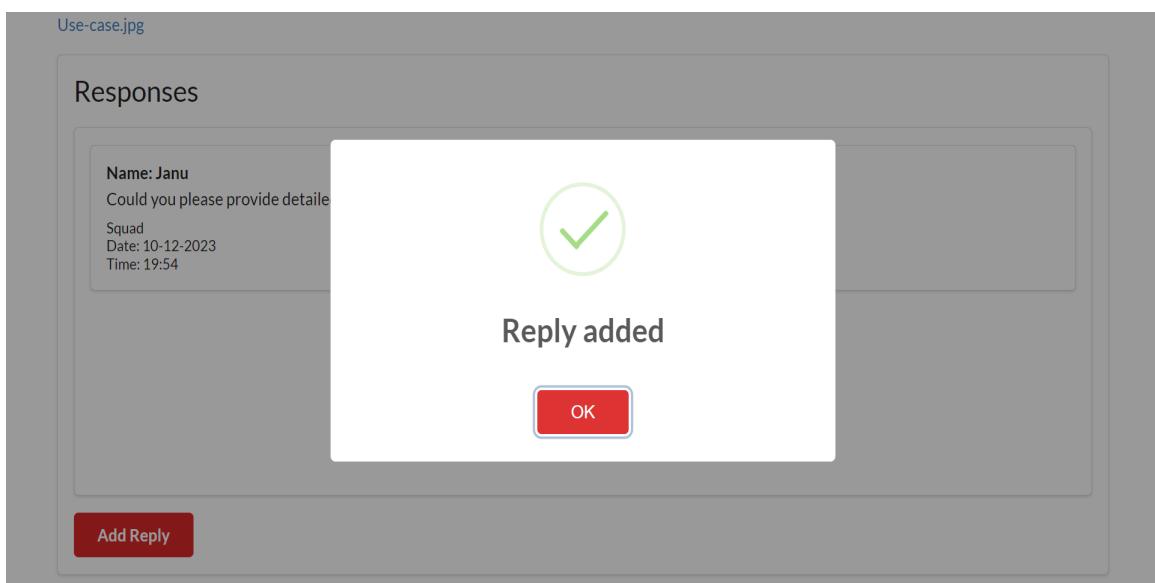


Fig. 9.12: Squad Added Complaint Response

### 9.1.13 View Response by Tracking

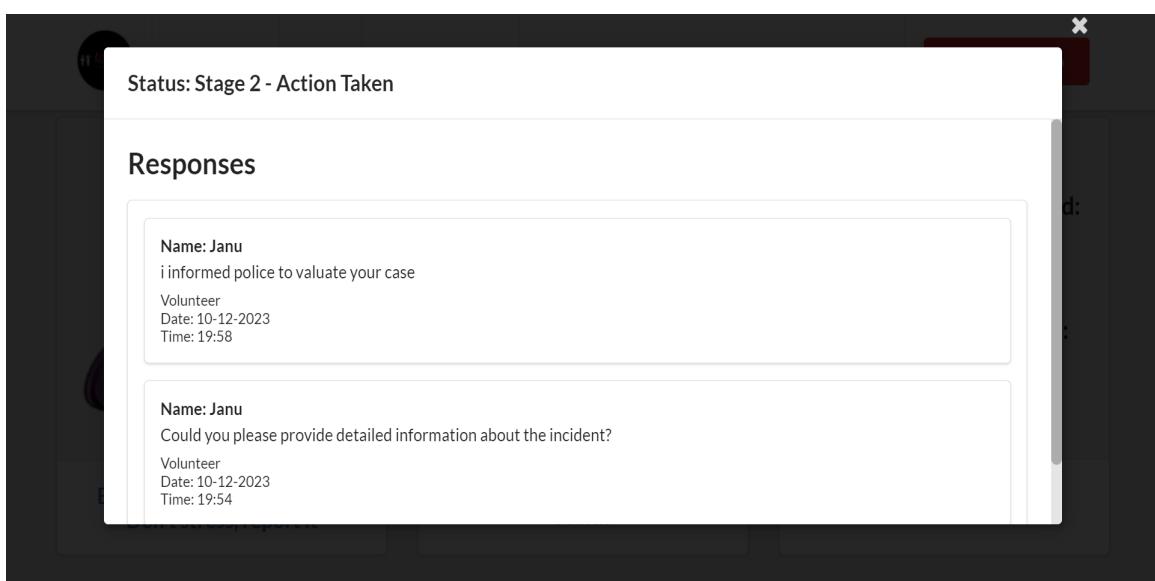


Fig. 9.13: View Response by Tracking

### 9.1.14 Anti-Ragging Cell Information

**Anti-Ragging Committee**

**Prof. Dr Jaya V L, Principal (Chairman)**  
Sri.Priyakumar T N, Associate Prof in Maths (Convener)  
Panchayath President  
Circle Inspector, Cherthala  
Sri.Jayakumar, Sarvodaya Mathrubhumi  
HOD EC Dept  
HOD CS Dept  
HOD EEE Dept  
HOD General Dept  
HOD IT Dept  
SRI Sreelekha K, PTA Secretary  
Smt. Smitha U, Senior Office Assistant  
Mr. Sarah Chandran K T, S7 EE  
Mr. Cains John, S3 CS  
Ms. Maimuna, S7 EC  
Ms. Shifa Rabia, First year Representative

**1. What Constitutes Ragging?** [View](#)  
**2. What is the Summary of UGC Regulations on Ragging?** [View](#)  
**3. Understanding and Preventing Ragging in Educational Institutions** [View](#)  
**4. The Kerala Prohibition of Ragging Act, 1998** [View](#)  
**5. Ragging: Prohibition, Prevention and Punishment** [View](#)  
**6. Ragging - Action against - Revised Instructions, PHQ Circular No. 26/2005** [View](#)  
**7. Prohibition of Ragging Act, 2011** [View](#)  
**8. What is the Summary of the Order of the Hon. Supreme Court on Ragging?** [View](#)

Fig. 9.14: Anti-Ragging Cell Information

### 9.1.15 Frequently Asked Questions (FAQ)

**Q: What is ragging?**  
1. Ragging is any disorderly conduct, whether by words spoken or written, or by an act that has the effect of teasing, treating, or handling with rudeness a fresher or a junior student.  
2. It includes indulging in rowdy or undisciplined activities that cause or are likely to cause annoyance, hardship, psychological harm, or raise fear or apprehension in a fresher or junior student.  
3. Ragging also encompasses asking students to do things that would cause shame or embarrassment, adversely affecting the physique or psyche of a fresher or junior student.

**Q: Why would anyone indulge in ragging?**  
1. Some individuals engage in ragging to derive sadistic pleasure.  
2. Others do it to show off power, authority, or superiority over juniors or freshers.

**Q: Is some form of ragging good?**  
No. Ragging, in any form, is a reprehensible act that does no good to anyone. Every act of ragging, major or minor, goes beyond the limits of decency, morality, and humanity. Civilized societies across the world are eliminating this nefarious practice, and some states in India have already taken steps to do the same.

**Q: Why was ragging still not exist?**  
1. Earlier, public opinion against ragging was not as strong as it is today.  
2. The definition of ragging was not clearly defined in the past.  
3. Earlier, the concern was limited to violent forms of ragging, and other forms were considered tolerable or even desirable, which is not the case today.

**Q: What is a 'zero tolerance' policy?**  
A 'zero tolerance' policy means that no act of ragging, whether major or minor, will go unnoticed. No ragger, male or female, student or non-student, will go unpunished. No institution that fails to take action against ragging will be allowed to operate.

**Q: Who will implement this policy?**  
Everyone concerned, especially:  
1. The heads of the educational institutions.  
2. The State Government, through Divisional Commissioners.  
3. The opinion makers.

**Q: How can we exterminate this evil practice?**  
We can exterminate this evil practice by involving every member of the teachers and the management of the institutions over the teachers and students. Efforts should be made to encourage reporting of ragging through all available means. Anti-ragging measures should be initiated by the institutions right from the time of advertising for admissions. The prospectus, the admission form, and any other literature issued to the aspirants for admission must clearly mention that ragging is banned in the institution, and anyone indulging in ragging is likely to receive deterrent punishment.

Fig. 9.15: Frequently Asked Questions (FAQ)

# Chapter 10

## SAMPLE CODES

## 10.1 Login



```
File Edit Selection View Go Run Terminal Help < > ANTI RAGGING CELL

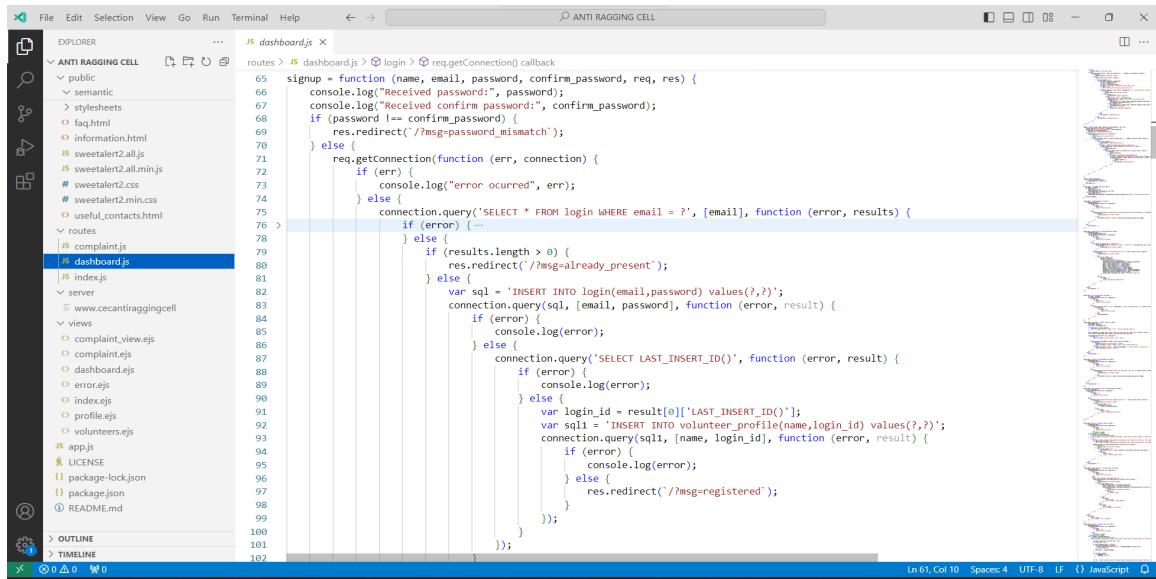
EXPLORER
ANTI RAGGING CELL
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semantic
styleheets
faq.html
information.html
sweetalert2.all.js
sweetalert2.all.min.js
sweetalert2.css
sweetalert2.min.css
useful_contacts.html
routes
complaints.js
dashboard.js
index.js
server
www.cecantiraggingcell
views
complaint_view.ejs
complaints.ejs
dashboard.ejs
error.ejs
index.ejs
profile.ejs
volunteers.ejs
app.js
LICENSE
package-lock.json
package.json
README.md

OUTLINE
TIMELINE

JS dashboard.js x
routes > JS dashboard.js > login > req.getConnection() callback
11  login = function(email, password, req, res) {
12    req.getConnection(function(err, connection) {
13
14      if (err) {
15        console.log("error occurred", err);
16      } else {
17        connection.query("SELECT * FROM login WHERE email = ?", [email], function(error, results) {
18          if (error) {
19            console.log("error occurred", error);
20          } else {
21            console.info("Actual Result", results);
22
23            if (results.length > 0) {
24              if (results[0].password === password) {
25                var type = results[0].type;
26                var id = results[0].id;
27                var status = results[0].status;
28                var sql = "Select name from volunteer_profile where id=?";
29                if (type == 1) {
30                  sql = "Select name from admin_profile where id=?";
31                }
32                connection.query(sql, [id], (error, innerResults) => { // Use a different variable name here
33                  if (error) {
34                    console.log("error occurred", error);
35                  } else {
36                    if (status != 1) {
37                      res.redirect('/msg=not_approved');
38                    } else {
39                      console.log("results", innerResults[0]);
40                      console.log("type", type); // Use 'type' from the outer query
41                      if (type == 1) {
42                        req.session.user = { email: email, password: password, type: type, name: innerResults[0].name };
43                        res.redirect('/dashboard/volunteers');
44                      } else if (type == 0) {
45                        req.session.user = { email: email, password: password, type: type, name: innerResults[0].name };
46                        res.redirect('/dashboard');
47                      } else {
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Fig. 10.1: Login

## 10.2 Signup

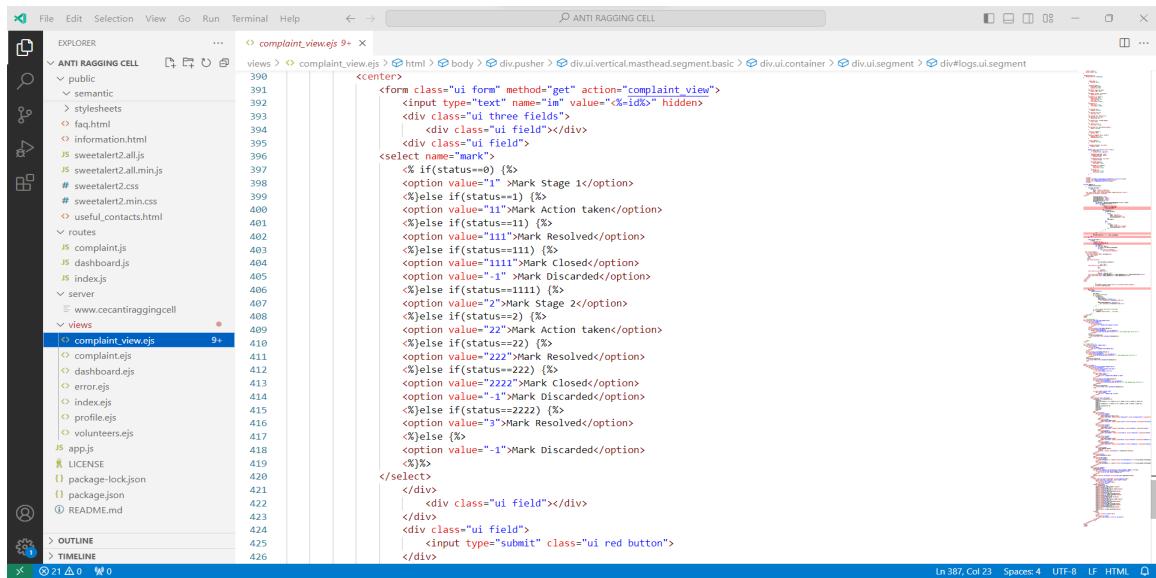


```

routes > JS dashboard.js >
  routes > JS dashboard.js > login > req.getConnection() callback
    65   signup = function (name, email, password, confirm_password, req, res) {
    66     console.log("Received password:", password);
    67     console.log("Received confirm password:", confirm_password);
    68     if (password != confirm_password) {
    69       res.redirect('/?msg=password_mismatch');
    70     } else {
    71       req.getConnection(function (err, connection) {
    72         if (err) {
    73           console.log("error occurred", err);
    74         } else {
    75           connection.query('SELECT * FROM login WHERE email = ?', [email], function (error, results) {
    76             if (error) {
    77               console.log(error);
    78             } else {
    79               if (results.length > 0) {
    80                 res.redirect('/?msg=already_present');
    81               } else {
    82                 var sql = 'INSERT INTO login(email,password) values(?,?)';
    83                 connection.query(sql, [email, password], function (error, result) {
    84                   if (error) {
    85                     console.log(error);
    86                   } else {
    87                     connection.query('SELECT LAST_INSERT_ID()', function (error, result) {
    88                       if (error) {
    89                         console.log(error);
    90                       } else {
    91                         var login_id = result[0]['LAST_INSERT_ID()];
    92                         var sql1 = 'INSERT INTO volunteer_profile(name,login_id) values(?,?)';
    93                         connection.query(sql1, [name, login_id], function (error, result) {
    94                           if (error) {
    95                             console.log(error);
    96                           } else {
    97                             res.redirect('/?msg=registered');
    98                           }
    99                         });
    100                       }
    101                     });
    102                   }
    103                 });
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```

Fig. 10.2: Signup

## 10.3 Marking Complaint Progress



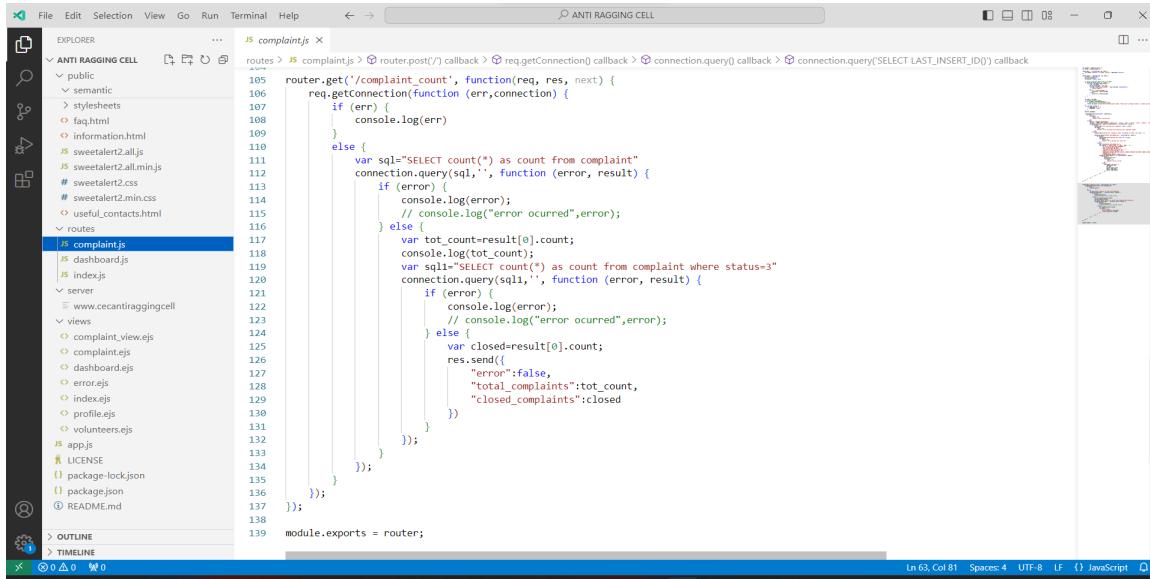
```

views > <div> complaint_view.ejs </div> >
  <center>
    <form class="ui form" method="get" action="complaint_view">
      <input type="text" name="id" value="<%id%>" hidden>
      <div class="ui three fields">
        <div class="ui field"></div>
        <select name="mark">
          <% if(status==0) {>
            <option value="1">Mark Stage 1</option>
          <%}else if(status==1) {>
            <option value="11">Mark Action Taken</option>
          <%}else if(status==11) {>
            <option value="111">Mark Resolved</option>
          <%}else if(status==111) {>
            <option value="1111">Mark Closed</option>
          <%}else if(status==1111) {>
            <option value="11111">Mark Discarded</option>
          <%}else if(status==11111) {>
            <option value="2">Mark Stage 2</option>
          <%}else if(status==2) {>
            <option value="22">Mark Action taken</option>
          <%}else if(status==22) {>
            <option value="222">Mark Resolved</option>
          <%}else if(status==222) {>
            <option value="2222">Mark Closed</option>
          <%}else if(status==2222) {>
            <option value="22222">Mark Discarded</option>
          <%}else if(status==22222) {>
            <option value="3">Mark Resolved</option>
          <%}else {>
            <option value="-1">Mark Discarded</option>
          <%}>
        </select>
      </div>
      <div class="ui field"></div>
      <div class="ui field">
        <input type="submit" class="ui red button">
      </div>
    </form>
  </center>

```

Fig. 10.3: Marking Complaint Progress

## 10.4 Report Generation



The screenshot shows a code editor window titled "ANTI RAGGING CELL". The left sidebar displays a file tree with files like routes, complaint.js, dashboard.js, index.js, and others. The main editor area shows the content of the "complaint.js" file:

```

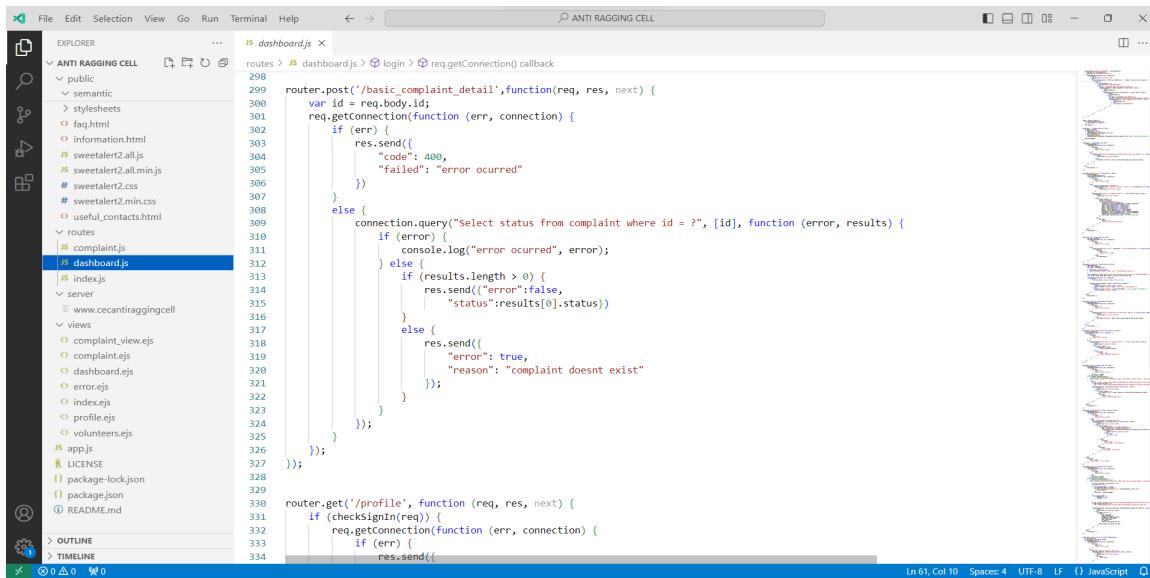
105 router.get('/complaint_count', function(req, res, next) {
106   req.getConnection(function (err, connection) {
107     if (err) {
108       console.log(err)
109     } else {
110       var sql="SELECT count(*) as count from complaint"
111       connection.query(sql,'', function (error, result) {
112         if (error) {
113           console.log(error);
114           // console.log("error occurred",error);
115         } else {
116           var tot_count=result[0].count;
117           console.log(tot_count);
118           var sql1="SELECT count(*) as count from complaint where status=3"
119           connection.query(sql1,'', function (error, result) {
120             if (error) {
121               console.log(error);
122               // console.log("error occurred",error);
123             } else {
124               var closedresult[0].count;
125               res.send({
126                 "error":false,
127                 "total_complaints":tot_count,
128                 "closed_complaints":closedresult[0].count
129               });
130             });
131           });
132         });
133       });
134     });
135   });
136 });
137 });
138 });
139 module.exports = router;

```

At the bottom, status bar indicators show: Ln 63, Col 81, Spaces: 4, UTF-8, LF, JavaScript.

Fig. 10.4: Report Generation

## 10.5 Track Complaint



The screenshot shows a code editor window titled "ANTI RAGGING CELL". The left sidebar displays a file tree with files like routes, dashboard.js, index.js, and others. The main editor area shows the content of the "dashboard.js" file:

```

298 router.post('/basic_complaint_detail',function(req, res, next) {
299   var id = req.body.id;
300   req.getConnection(function (err, connection) {
301     if (err) {
302       res.send({
303         "code": 400,
304         "failed": "error occurred"
305       });
306     } else {
307       connection.query("Select status from complaint where id = ?", [id], function (error, results) {
308         if (error) {
309           console.log("error occurred", error);
310         } else {
311           if (results.length > 0) {
312             res.send({
313               "error":false,
314               "status":results[0].status
315             });
316           } else {
317             res.send({
318               "error":true,
319               "reason": "complaint doesnt exist"
320             });
321           });
322         });
323       });
324     });
325   });
326 });
327 });
328 });
329 });
330 router.get('/profile', function (req, res, next) {
331   if (checkSignIn(req)) {
332     req.getConnection(function (err, connection) {
333       if (err) {
334         res.send({

```

At the bottom, status bar indicators show: Ln 61, Col 10, Spaces: 4, UTF-8, LF, JavaScript.

Fig. 10.5: Track Complaint

## 10.6 Complaint View Generation

```
File Edit Selection View Go Run Terminal Help < > ⚡ ANTI RAGGING CELL

EXPLORER
ANTI RAGGING CELL
  public
    semantic
      stylesheets
        faq.html
        information.html
        sweetalert2.all.js
        sweetalert2.all.min.js
        sweetalert2.css
        sweetalert2.min.css
        useful_contacts.html
  routes
    complaint.js
    dashboard.js
  index.js
  server
    www.ceantirraggingcell
  views
    complaint_view.ejs
    complaints.ejs
    dashboard.ejs
    error.ejs
    index.ejs
    profile.ejs
    volunteers.ejs
  app.js
  LICENSE
  package-lock.json
  package.json
  README.md

OUTLINE
TIMELINE
```

```
routes > JS dashboard.js > router.get('/complaint_view', function(req, res, next) {
159   if (checkSignIn(req)) {
160     let id = Number(req.query.id);
161     req.getConnection(function (err, connection) {
162       if (err) {
163         res.send({
164           "code": 400,
165           "failed": "error occurred"
166         })
167       } else {
168         if (typeof req.query.mark != "undefined") {
169           connection.query("Update complaint set status = ? where id =?", [req.query.mark, id], function (error, results) {
170             if (error) {
171               console.log("error occurred", error);
172             }
173           });
174         }
175         connection.query("Select * from complaint where id =?", [id], function (error, results) {
176           if (error) {
177             console.log("error occurred", error);
178           } else {
179             if (results.length > 0) {
180               result = results[0];
181               res.render("complaint_view", {
182                 id: result.id==null?"":result.id,
183                 complainant: result.complainant==null?"":result.complainant,
184                 victim: result.victim==null?"":result.victim,
185                 email: result.email==null?"":result.email,
186                 mobile: result.mobile==null?"":result.mobile,
187                 batch: result.batch==null?"":result.batch,
188                 address: result.address==null?"":result.address,
189                 details: result.details==null?"":result.details,
190                 attachment1: result.attachment1==null?"":result.attachment1,
191                 attachment2: result.attachment2==null?"":result.attachment2,
192                 status: result.status==null?"":result.status
193               })
194             }
195           })
196         }
197       }
198     })
199   }
200 }
```

Fig. 10.6: Complaint View Generation

## 10.7 Profile Creation

Fig. 10.7: Profile Creation

## **Chapter 11**

# **CONCLUSION & FUTURE SCOPE**

The development of this project stands as a beacon of hope in the fight against ragging. By embracing a cycle of continuous investigation, innovation, and collaboration, the Anti-Ragging Cell (ARC) holds the potential to eliminate ragging entirely, paving the way for a brighter and safer future within educational institutions globally.

Future Scope of this project are as follows:

- Integration with existing systems
- Artificial intelligence (AI) for chatbots and sentiment analysis
- Block-chain technology for secure data storage
- Mobile app with advanced features
- Multilingual interface
- Partnerships with NGOs and educational institutions

The Anti-Ragging Platform holds significant potential to revolutionize the fight against ragging within educational institutions. By leveraging technology to create a safe and accessible reporting system, facilitating efficient complaint management, and providing comprehensive support services, the platform empowers students to speak out and hold perpetrators accountable. Its implementation can foster a culture of zero tolerance for ragging and pave the way for a safer and more inclusive learning environment for all.

## **Chapter 12**

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