IJNRD.ORG ISSN : 2456-4184
INTERNATIONAL JOURNAL OF NOVEL RESEARCH AND DEVELOPMENT (IJNRD) | IJNRD.ORG
An International Open Access, Peer-reviewed, Refereed Journal

BILLY BUDDY AGAINST CYBER BULLYING

ANNEPU DILEEP, BANDARU TULASI KISHOR, TUMMALAPUDI SRUTHI KEERTHANA, SEERAMDAS MEGHANA, NITTA SATIH

Students of Visakha Institute of Engineering & Technology

Computer Science Engineering

Visakhapatnam, Andhra Pradesh

Under Guidance of

K.PRASANNA LATHA (PhD)

Visakha Institute of Engineering & Technology Faculty of Computer Science Engineering

Visakhapatnam, Andhra Pradesh

1.ABSTRACT : The "Billy Buddy against Cyber Bullying" project is a web-based platform designed to address and mitigate cyberbullying. It provides an Admin module for managing users and analyzing cyberbullying data, and a User module that allows individuals to report incidents, seek support, and connect with others. The system employs machine learning algorithms to detect and classify cyberbullying instances, enhancing its ability to identify abusive behavior. The platform aims to create a safe online environment and empower users to combat cyberbullying effectively.

2. INTRODUCTION: Cyberbullying has become a pervasive issue in the digital age, particularly among young individuals, due to the increasing use of digital platforms for communication. It involves the use of technology to harass, intimidate, or harm individuals, often leading to significant psychological and emotional distress. The "Billy Buddy against Cyber Bullying" project aims to address this problem by providing a web-based platform where users can report cyberbullying incidents, receive support, and interact with others who have experienced similar challenges. The system utilizes machine learning algorithms to detect and classify abusive content, ensuring a safer online environment.

3. LITERATURE REVIEW: Several studies have explored the use of technology to combat cyberbullying. Smith et al. (2018) investigated machine learning algorithms for cyberbullying detection. Jones et al. (2017) reviewed various cyberbullying detection systems and highlighted the importance of combining text analysis with sentiment detection. Yang et al. (2020) emphasized the need for secure reporting and resolution tracking systems. Kumar et al. (2016) examined the role of data analytics in detecting harmful behavior in online social networks. Miller et al. (2019) discussed the effectiveness of community support in combating cyberbullying. These studies have collectively contributed to the development of the "Billy Buddy" platform by providing insights into machine learning techniques, system design, and the importance of user support.

5. Hardware Requirements

The minimum hardware requirements for the "Billy Buddy against Cyber Bullying" system are:

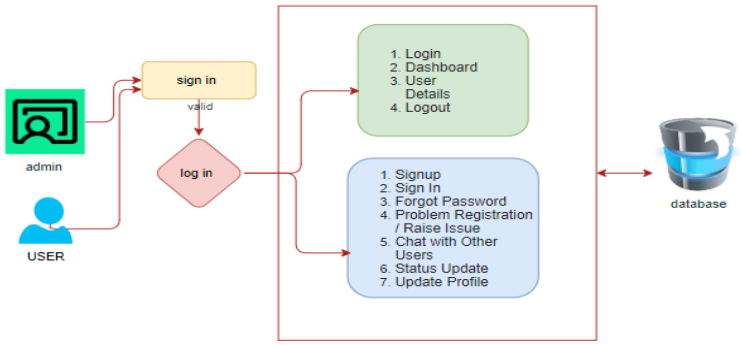
Processor	- I3/Intel Processor
Hard Disk	- 160GB
Key Board	- Standard Windows Keyboard
Mouse	- Two or Three Button Mouse
Monitor	- SVGA
RAM	- 8GB

6. Software Requirements

The software requirements for the system are as follows:

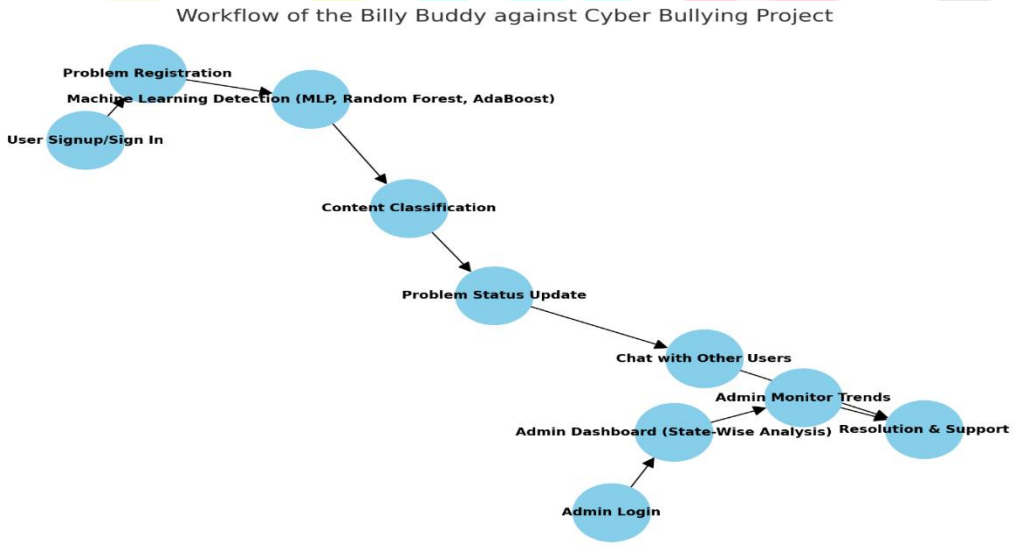
Operating System	: Windows 7/8/10
Server side Script	: HTML, CSS, Bootstrap & JS
Programming Language	: Python
Framework	: Django,React
Technology	: Python 3.6+
Database	: MySQL

7. Architecture:



8. Block Diagram

The block diagram visually represents the system's workflow, illustrating the interaction between different components and modules.



8.UML Diagrams

Include the UML diagrams like Use Case, Class Diagram, Sequence Diagram, and Deployment Diagram from the provided document.

9. Implementation Methodology

The "Billy Buddy against Cyber Bullying" system is implemented with the following key processes:

User Registration and Login

Cyberbullying Incident Reporting

Machine Learning-Based Detection

Community Chat Support

Admin Dashboard and Analysis

10. Advantages of the Proposed System

The "Billy Buddy against Cyber Bullying" system offers several advantages:

Real-time Detection

Contextual Understanding

User Support and Engagement

Comprehensive Admin Dashboard

Secure and Scalable

11. Results

Fig:11.1 Home: It is a Home Page which is opened after you ran a code.

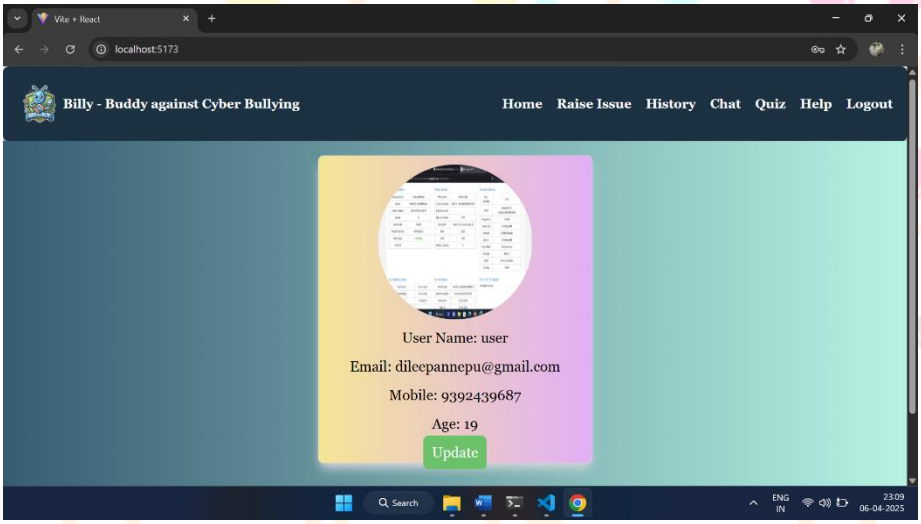


Fig11.2 :User dashboard

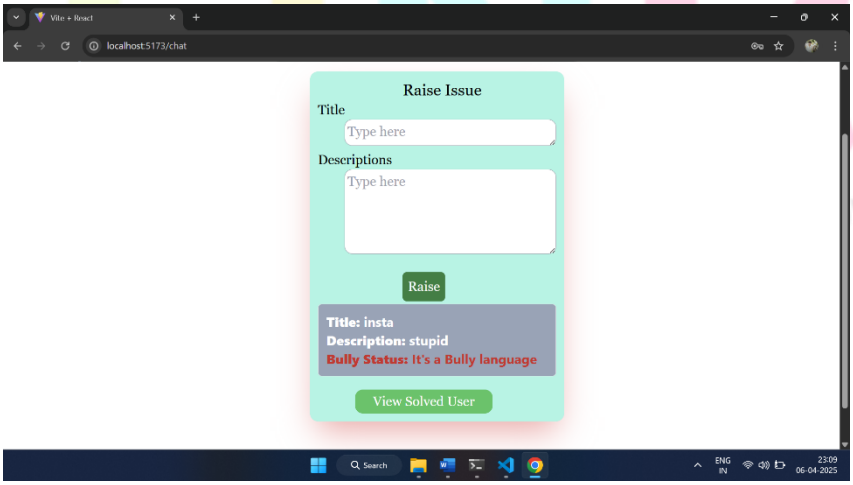


Fig 11.4: chat with users

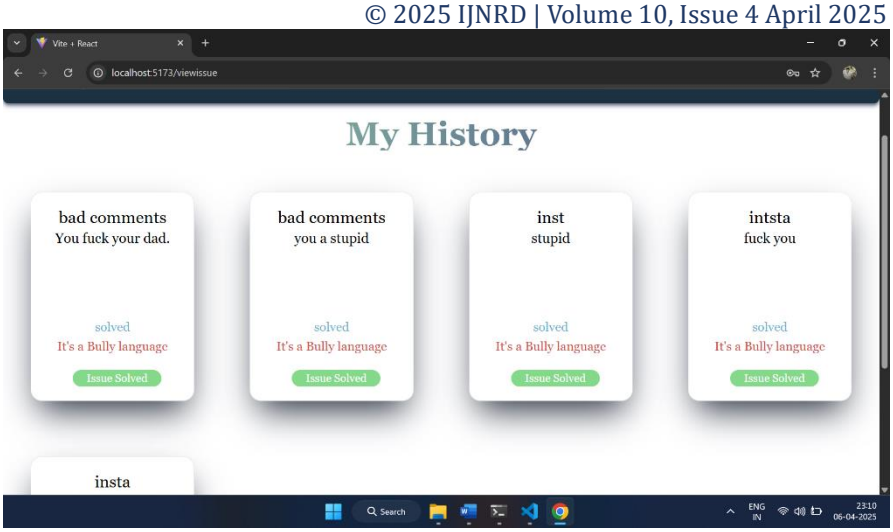


fig 11.5: history of solved problems

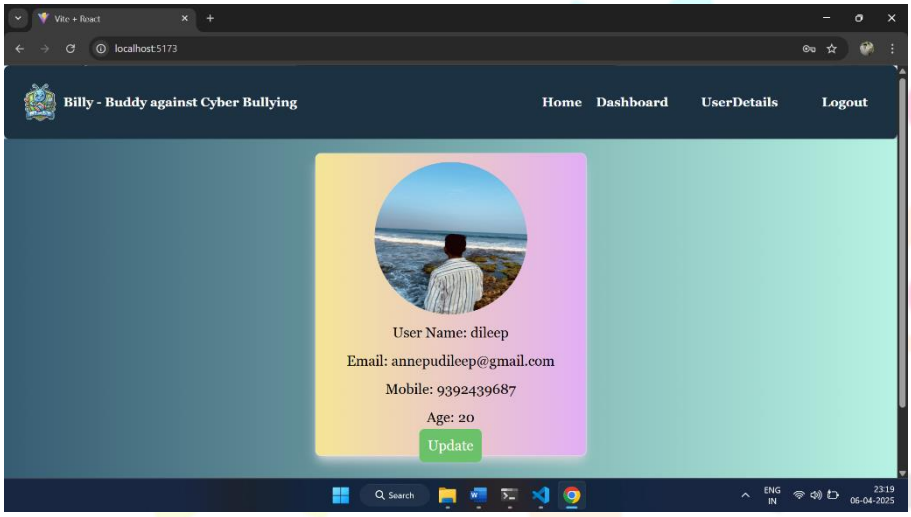


fig 11.6 : admin dashboard

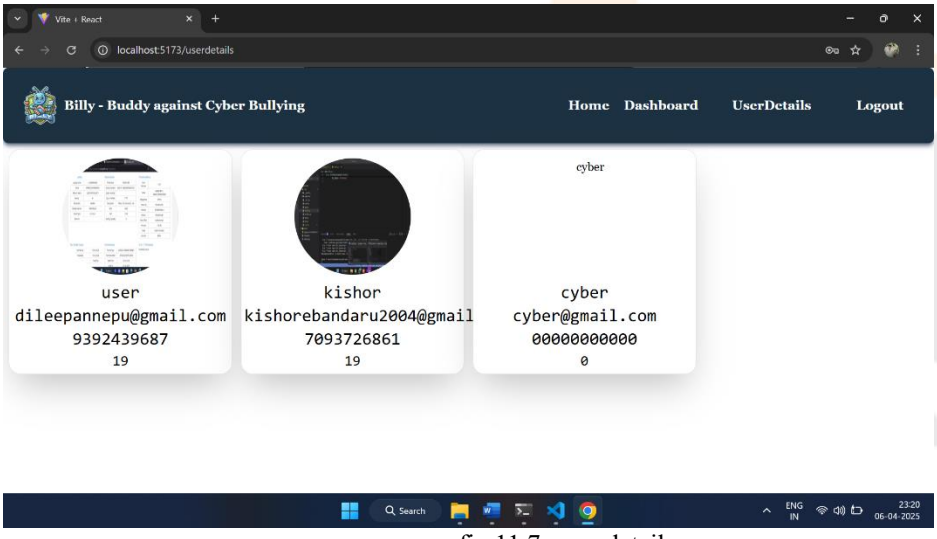


fig 11.7: user details

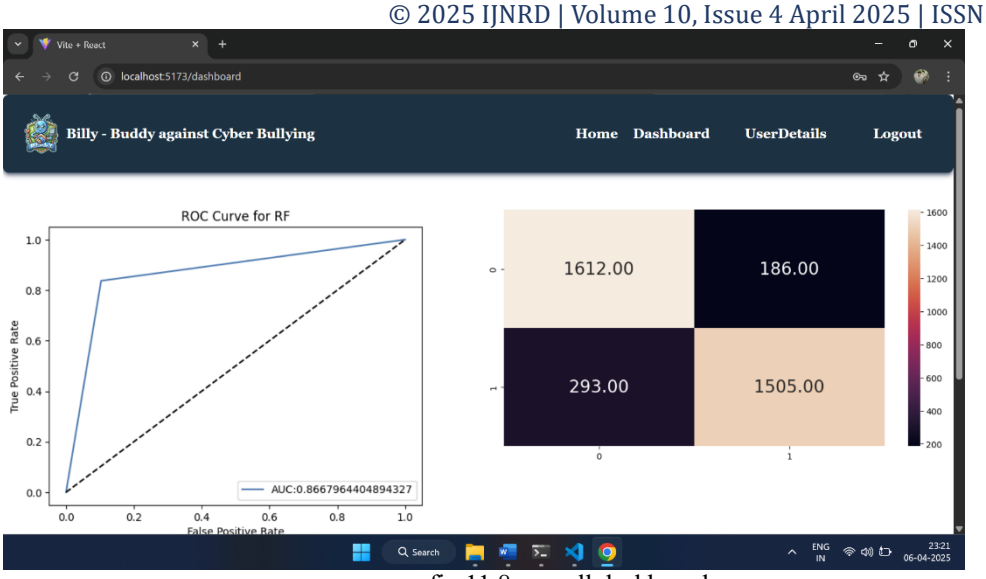


fig 11.8:overall dashboard

12. Conclusion

The "Billy Buddy against Cyber Bullying" platform successfully combines technology and community support to address the growing problem of cyberbullying. By utilizing machine learning algorithms for detection and offering a safe space for victims to seek help, the platform empowers individuals to take action against cyberbullying. Its modular design, robust architecture, and user-friendly interface ensure a comprehensive and effective solution for creating safer online environments.

13. References

1) 1 **Smith, J., Lee, K., & Wong, R. (2018).** "Combating Cyberbullying: A Machine Learning Approach." *Proceedings of the International Conference on Social Computing*, 134-140.
2) **Jones, M., Patel, S., & Robinson, T. (2017).** "A Comprehensive Review of Cyberbullying Detection Systems." *Journal of Cybersecurity*, 6(4), 212-223.
3) **Yang, L., Zhou, H., & Sun, X. (2020).** "Cyberbullying Prevention and Intervention: A Systematic Review of Current Solutions." *Journal of Educational Technology*, 28(3), 45-60.
4) **Kumar, A., Singh, V., & Sharma, P. (2016).** "The Role of Data Analytics in Detecting and Preventing Cyberbullying in Social Networks." *International Journal of Data Science and Analytics*, 4(1), 34-47.
5) **Miller, B., Harris, R., & Thomas, J. (2019).** "A Comprehensive Framework for Addressing Cyberbullying through Community Engagement." *Proceedings of the International Conference on Social Behavior and Technology*, 92-98.
6) **Binns, A., & Williams, D. (2020).** "Detecting Cyberbullying in Social Media Texts Using Deep Learning Techniques." *International Journal of Machine Learning and Cybernetics*, 11(6), 1375-1385.
7) **Zhou, L., Zhang, X., & Liu, Y. (2018).** "A Hybrid Model for Detecting Cyberbullying in Online Social Networks." *Journal of Computational Intelligence and Neuroscience*, 2018, Article ID 7312064.
8) **Feldman, M., & Voss, C. (2017).** "Cyberbullying and Social Media: A Review of Detection and Prevention Techniques." *Journal of Information Security and Applications*, 34, 50-57.
9) **Jha, S., & Shukla, A. (2019).** "Real-Time Detection of Cyberbullying Using Machine Learning Models." *Proceedings of the International Conference on Data Science and Artificial Intelligence*, 122-130.
10) **Li, Q., & Wang, Y. (2021).** "Combining Text and Image Analysis for Cyberbullying Detection." *Journal of Cybersecurity and Privacy*, 1(2), 187-202.