EduTalk Discussion Forum For Student

[1]Omkar Narendra Patil, [2]Danish Juned Patwekar, [3]Yash Rajendra Salunkhe,

[4]Ms. Shital Shahaji Gavade

[1,2,3] Students, [4]Assistant Professor,

[1,2,3,4] Computer Science Department,

[1,2,3,4] NanaSaheb Mahadik College Of Engineering Peth,

Abstract: The project introduces an innovative "EduTalk Discussion Forum For Students," a web-based application created to manage group discussions effectively. Users can post queries or introduce topics, with system administration overseeing the entire process and maintaining a centralized database. This platform empowers participants to invite others, ask questions, and engage in meaningful dialogues. It is an invaluable tool for small offices, educational institutions, departments, or any group seeking to enhance communication and knowledge-sharing capabilities. Additionally, intermediate users are capable of responding, while registered users have the opportunity to post articles and share resources. This system facilitates seamless information exchange, providing real-time updates as fresh insights and content emerge**.**

Keywords - EduTalk Discussion Forum For Student, Web-based application, Group discussion, Knowledge-sharing, Share resources, Real-time updates.

I. INTRODUCTION

The EduTalk Discussion Forum For Student is a web-based application dedicated to managing group discussions, enhancing communication, and promoting knowledge sharing among users. It serves as a virtual space for users to ask questions, share insights, and collaborate. This innovative platform empowers individuals from diverse backgrounds to converge and contribute to a structured framework, centered on a centralized database that diligently organizes information.

The system's design is characterized by simplicity and user-friendliness, catering to various audiences, from small offices to educational institutions and beyond. It introduces "connected users" who act as intermediaries, improving problem-solving and information dissemination. Additionally, it offers facilities for resource sharing and article posting, enriching its content and knowledge repository. These features ensure that the EduTalk Discussion Forum For Student remains dynamic and evolving. Its standout feature is the inherent capacity for real-time updates, allowing users to keep information current and relevant.

The system creates safe spaces for research, problem-solving, and community building, promoting user engagement and even potential sales. Built for high performance, the platform boasts efficient operations and rapid response times, ensuring ease of navigation for visitors. Regular updates to the database maintain platform longevity and relevancy, with various reporting facilities enabling users to gain insights from generated data. Furthermore, the EduTalk Discussion Forum For Student fosters diversity of thought, allowing users to share unique opinions and perspectives. As a web application, it offers universal accessibility, transcending geographical boundaries and providing access to users worldwide

II. OBJECTIVE

- Develop web-based EduTalk Discussion Forum For Student platform.
- To provide all types of question answers.
- To provide online job alerts for users.
- To provide computer language compiler for example JVM.
- To provide features like knowledge sharing and recourse sharing platform for users

III. SYSTEM ARCHITECTURE

In this system architecture, users interact with the EduTalk Discussion Forum For Student through the user interface, which communicates user inputs to the application server through the internet. The application server processes these inputs, authenticates users, and manages the overall flow of the system. Experiment modules, powered by the simulation engine, simulate experiments, executes experiments on provided compilers and generate results, which are stored and retrieved from the database. External

integrations enhance functionality, and the security layer and authentication/authorization components ensure data security and user access control.
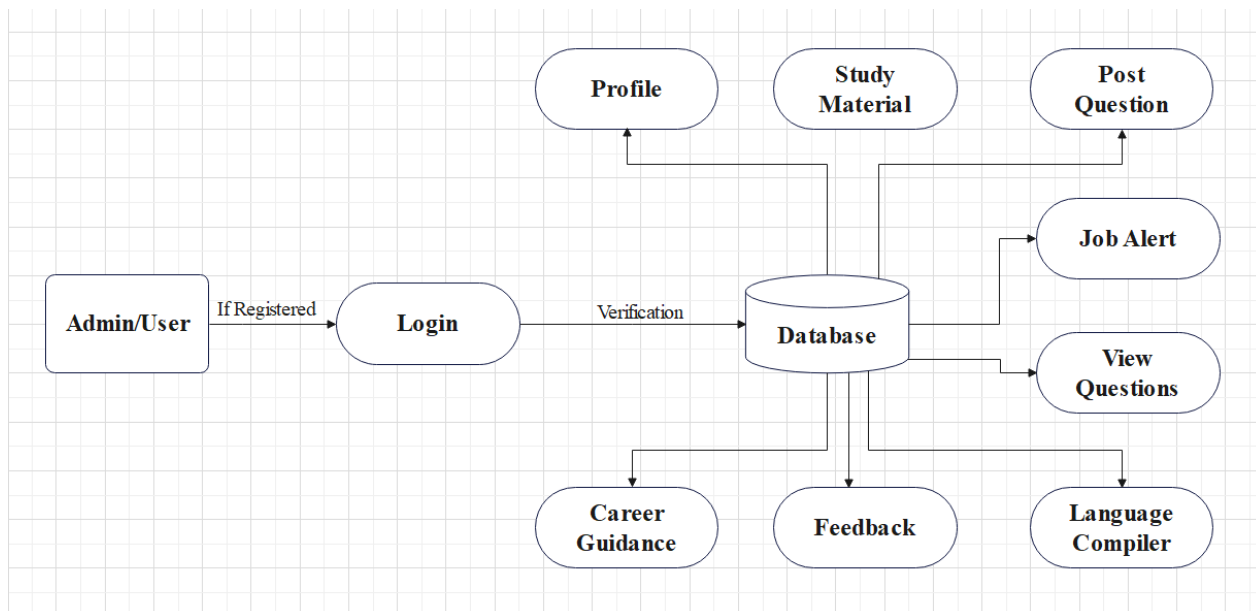

Fig 3.1 System Architecture

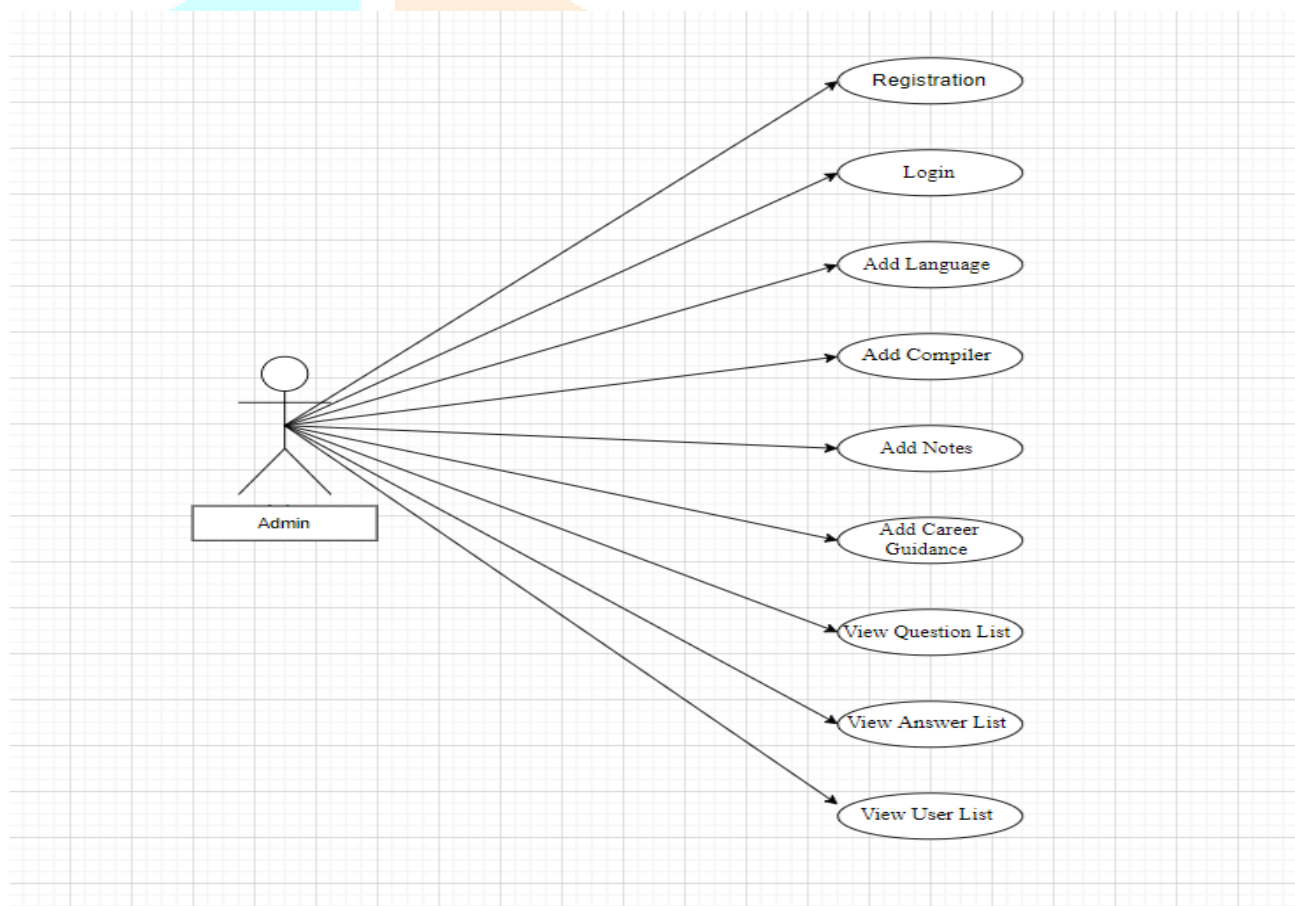## 3.1 Admin Use-Case Diagram

Fig 3.2 Admin Use-Case Diagram

An admin use case diagram visually represents an administrator's interaction with a system. It depicts their tasks and functionalities. Some common actions include managing users (registering, logging in), adding system elements (languages, compilers), providing informative content (notes, career guidance), and reviewing system data (questions, answers, user lists). This diagram helps document system requirements and ensure it caters to the administrator's needs

3.2 User Use-Case Diagram

Fig 3.3 User Use-Case Diagram

This user use case diagram delves into how users interact with a question-and-answer forum. It showcases the key functionalities that empower users to actively participate and engage in knowledge sharing. Users can register for an account, personalize their profiles, and actively contribute by posing questions and providing answers. The diagram also emphasizes the ability to browse existing questions, potentially up vote or down vote answers (depending on the forum's design), and likely search for specific topics. Furthermore, users can report inappropriate content, suggest improvements, and provide feedback to ensure a positive forum experience. This visual representation serves as a roadmap to user needs, ensuring the forum caters to a smooth and engaging knowledge exchange.

IV. RESULTS AND DISCUSSION

In this project we forced to the user interface improvement and so in the result we see the user side user interface in the result and discussion.

4.1 Home Page

Fig 4.1 Home Page

In this home page module we give some information about the project and there is six option in navebar that is home, About Courses, Contact, Admin login and User login.
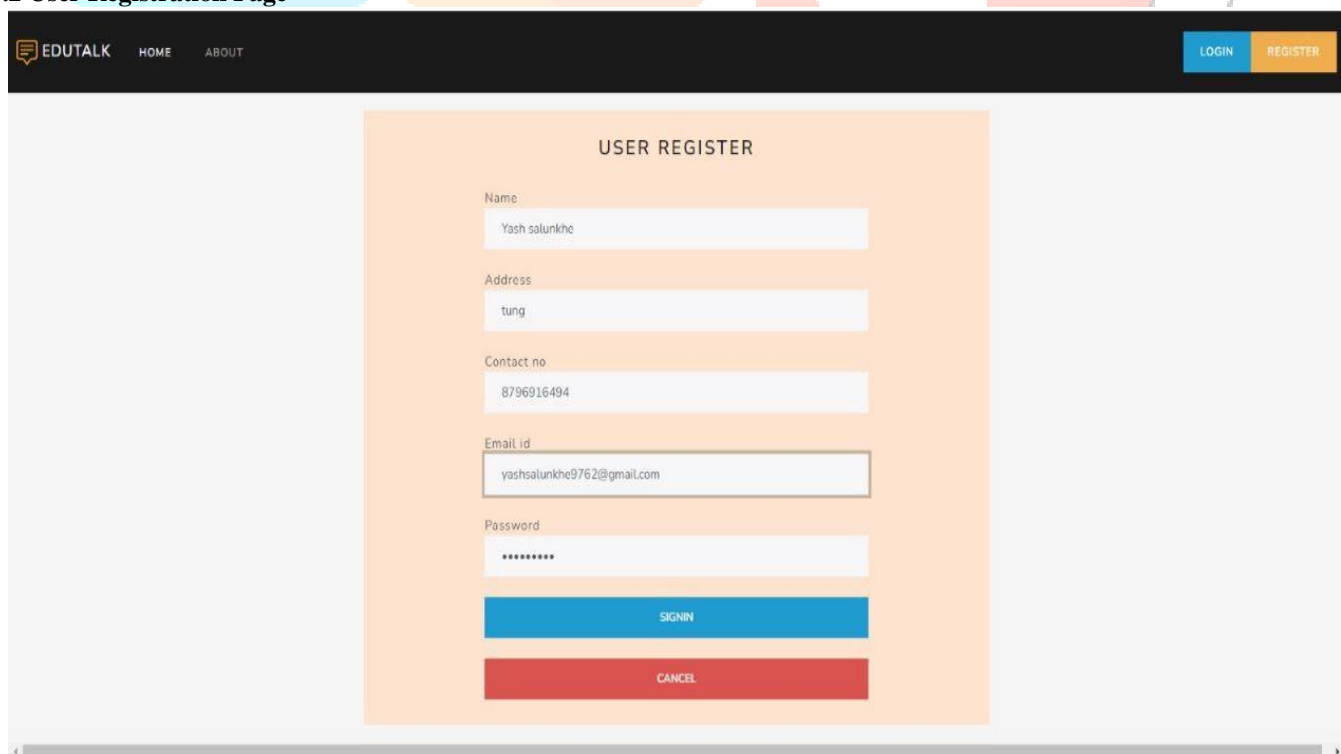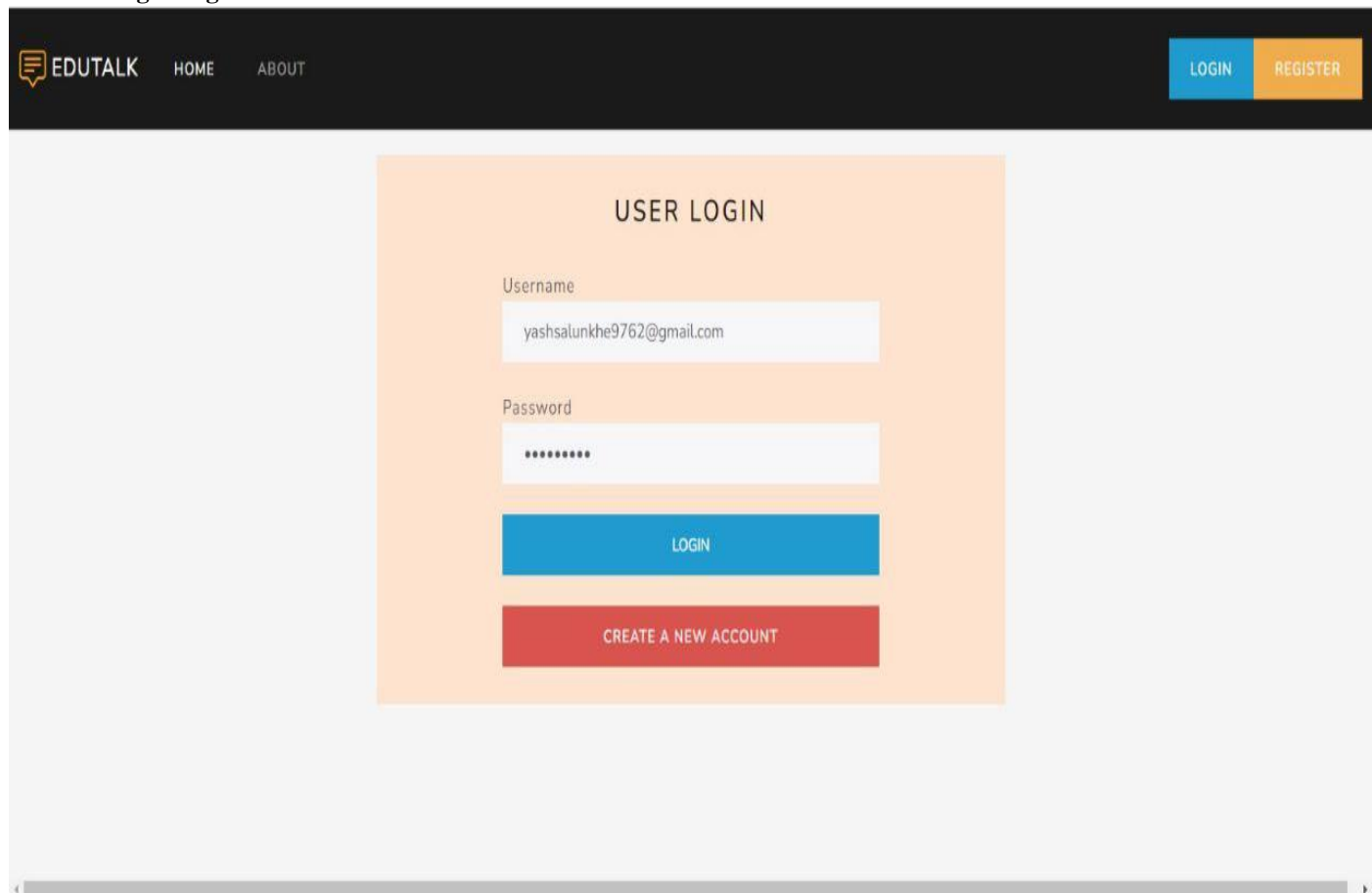
4.2 User Registration Page

Fig 4.2 User Registration Page

This is the User Side User Registration Page. In this page User can fill above details and register there self if they are new member.
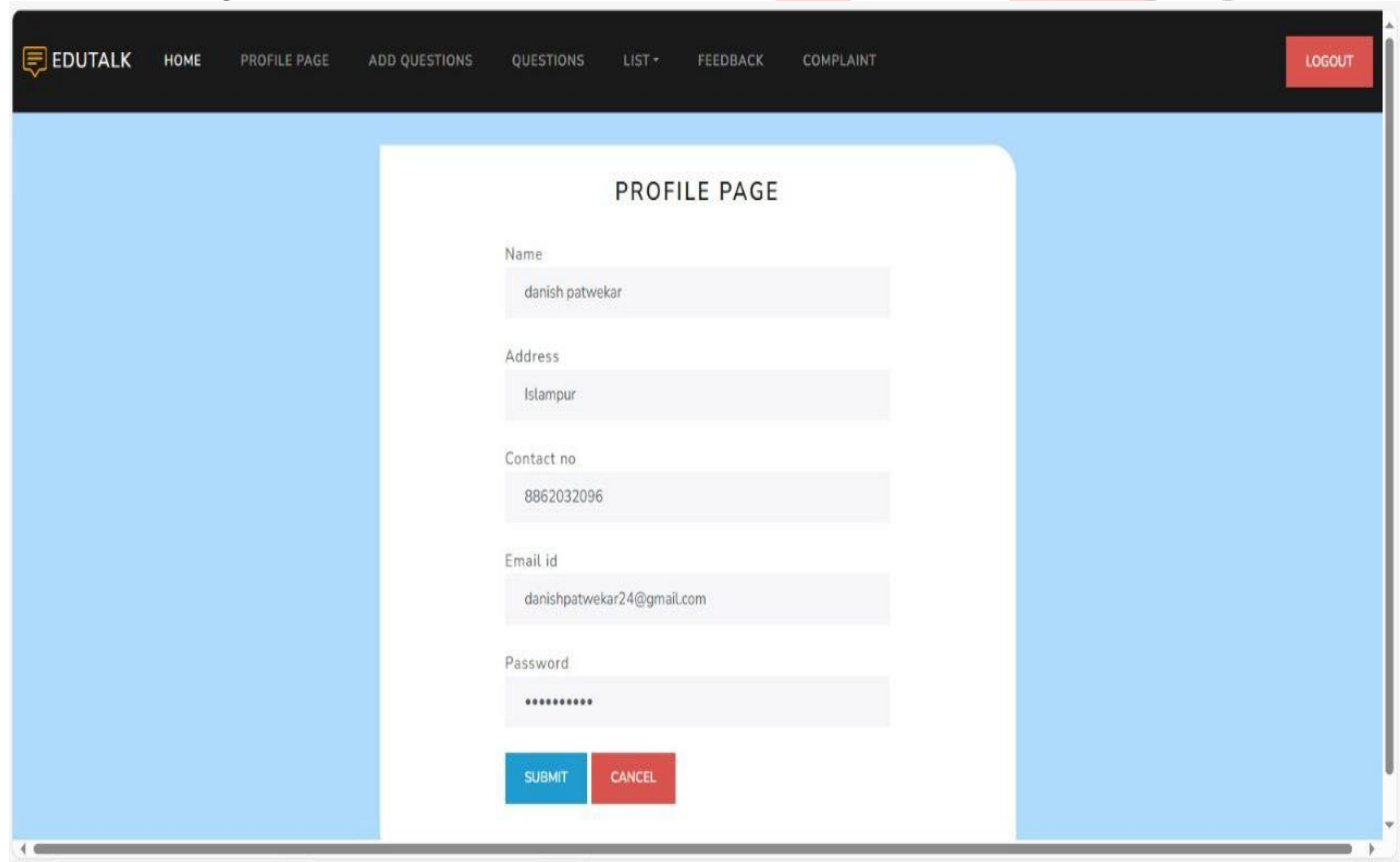
4.3 User Login Page

Fig 4.3 User Login Page

This is the User Side User Login Page. In this page User can fill above details and login to the system.
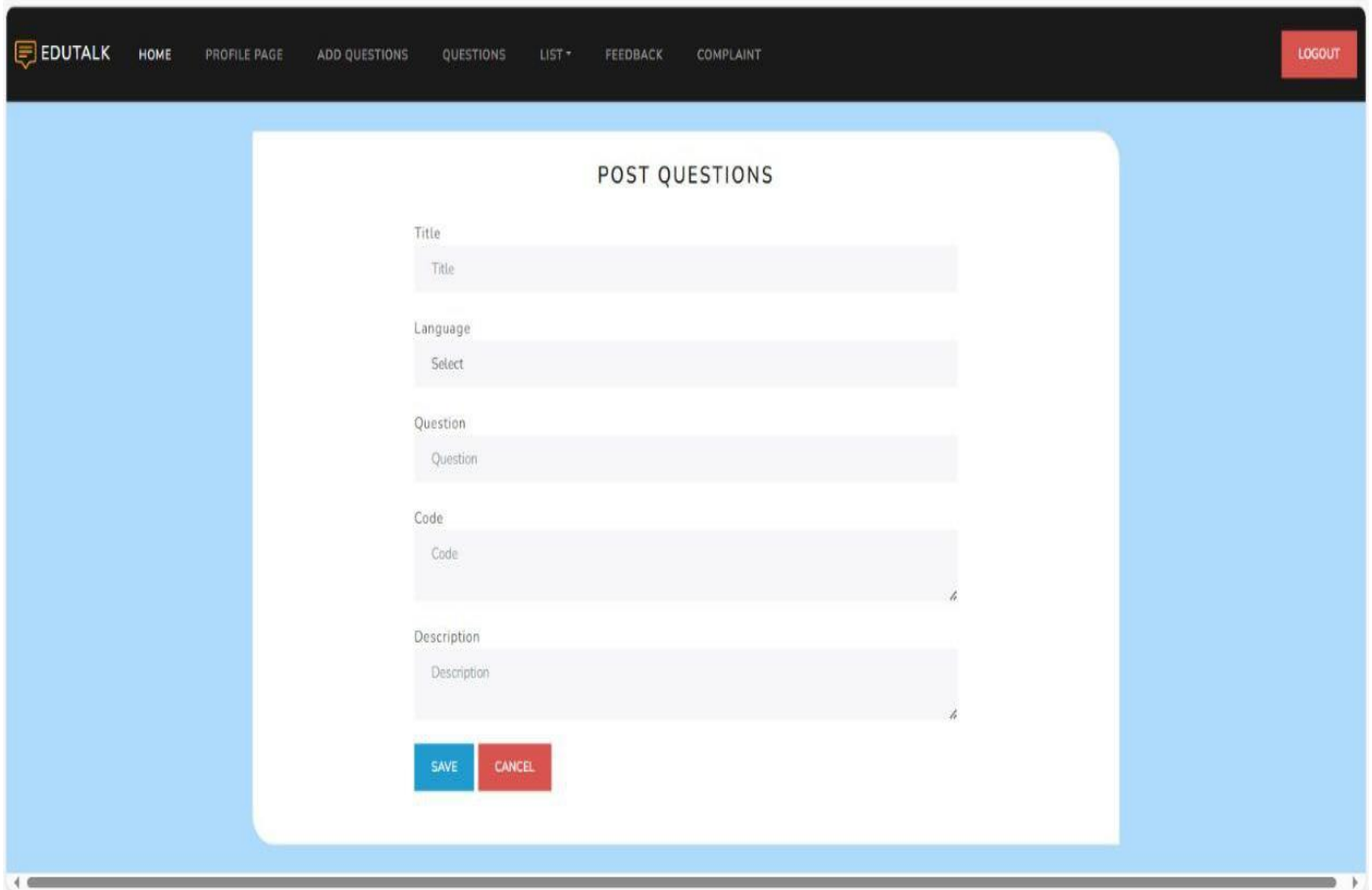
4.4 User Profile Page

Fig 4.4 User Profile Page.

This is the User Side User Profile Page. In this page User can fill above details and register there self if they are new member.
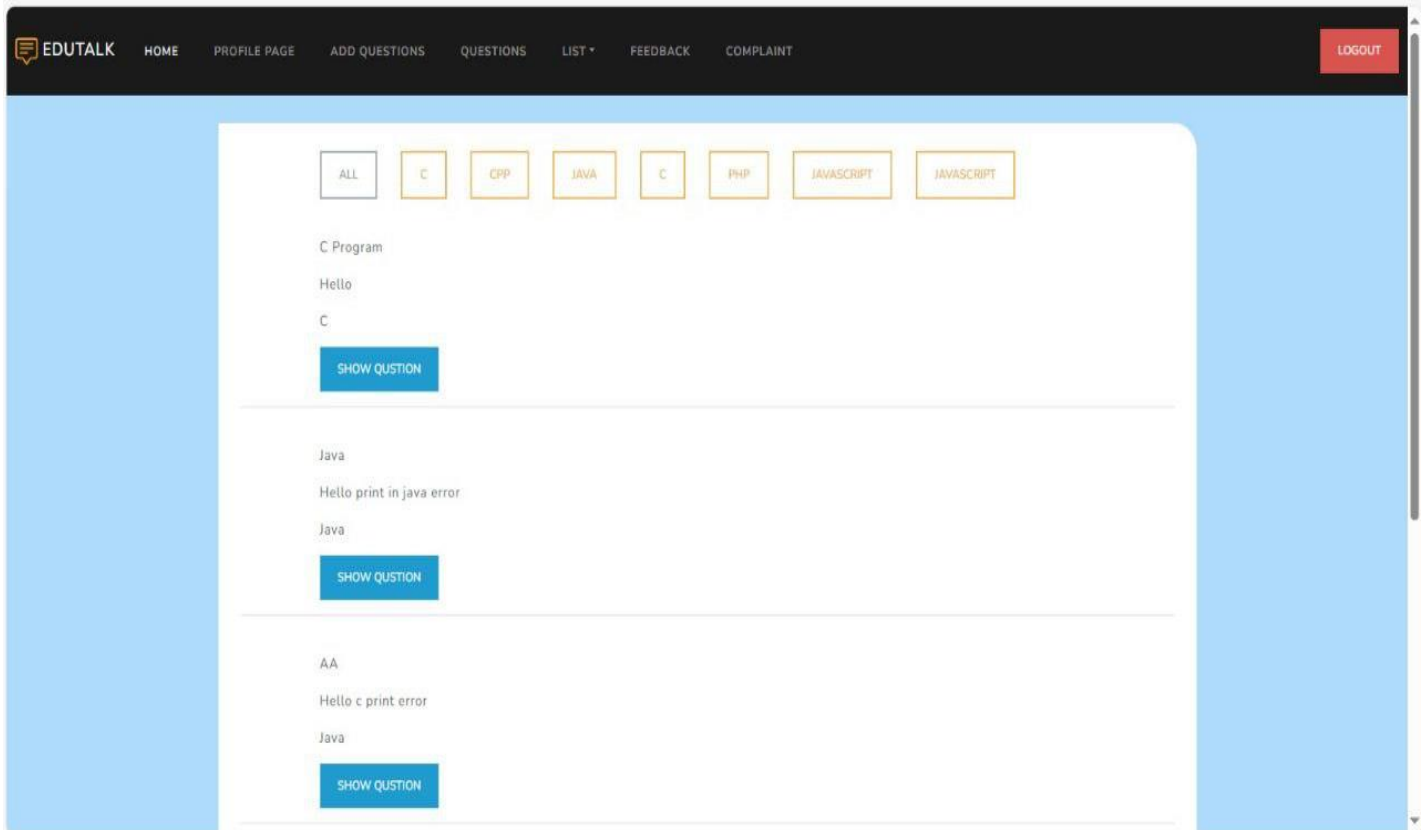
4.5 User Post Question Page.

Fig 4.5 User Post Questions page

This is the User Post Question Page. In this page User can ask any Question by fill title select language, write question code and question description.

4.6 User View All Question Page.

4.6 User View All Question Page

This is the User view all question page. In this page User can see all questions and answer posted by other students.
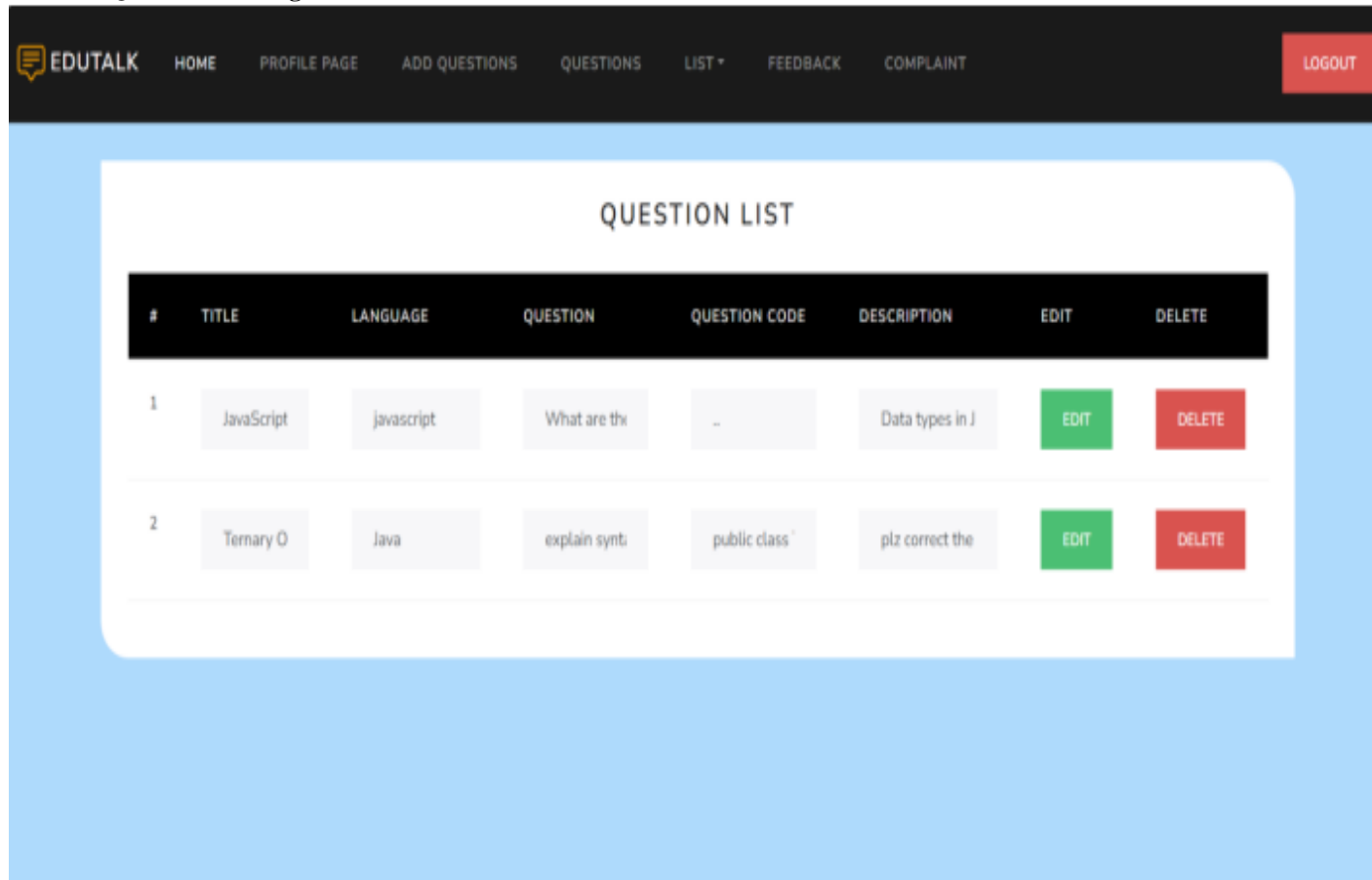
4.7 User Question List Page.

Fig 4.7 User Question List Page

This is the User question list page. In this page User can see all questions post by their self.

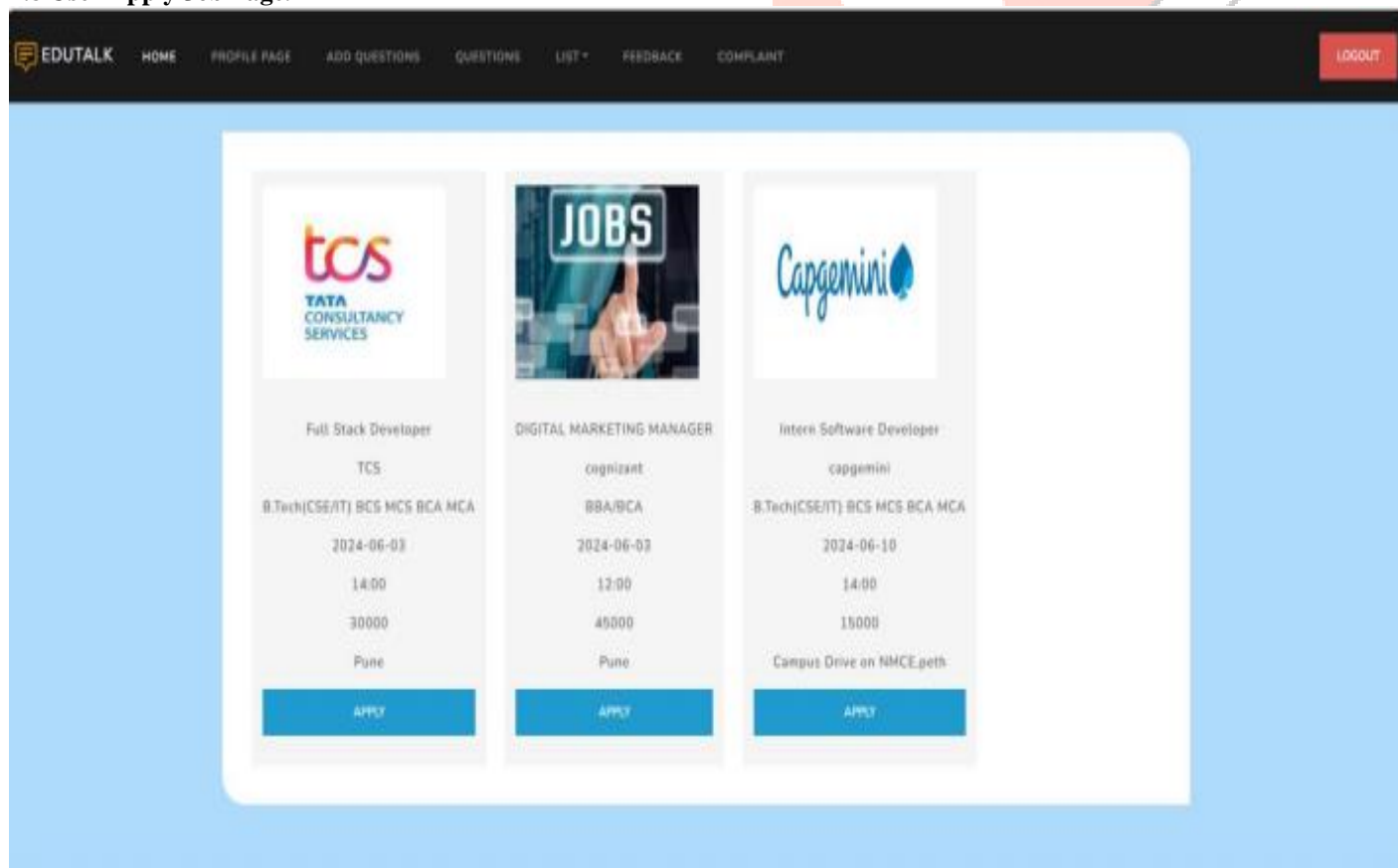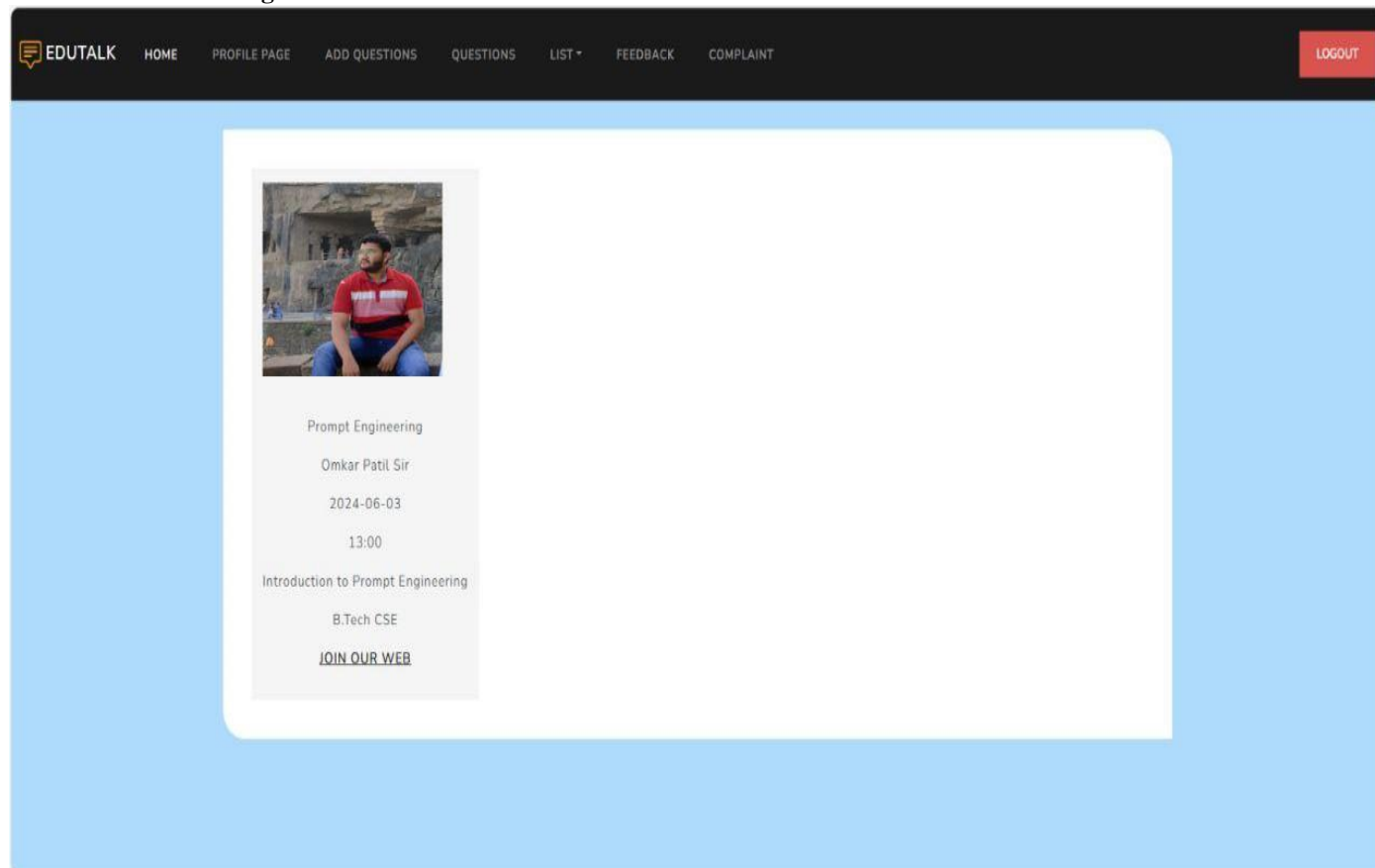**4.8 User Apply Job Page.**

Fig 4.8 User Apply Job Page.

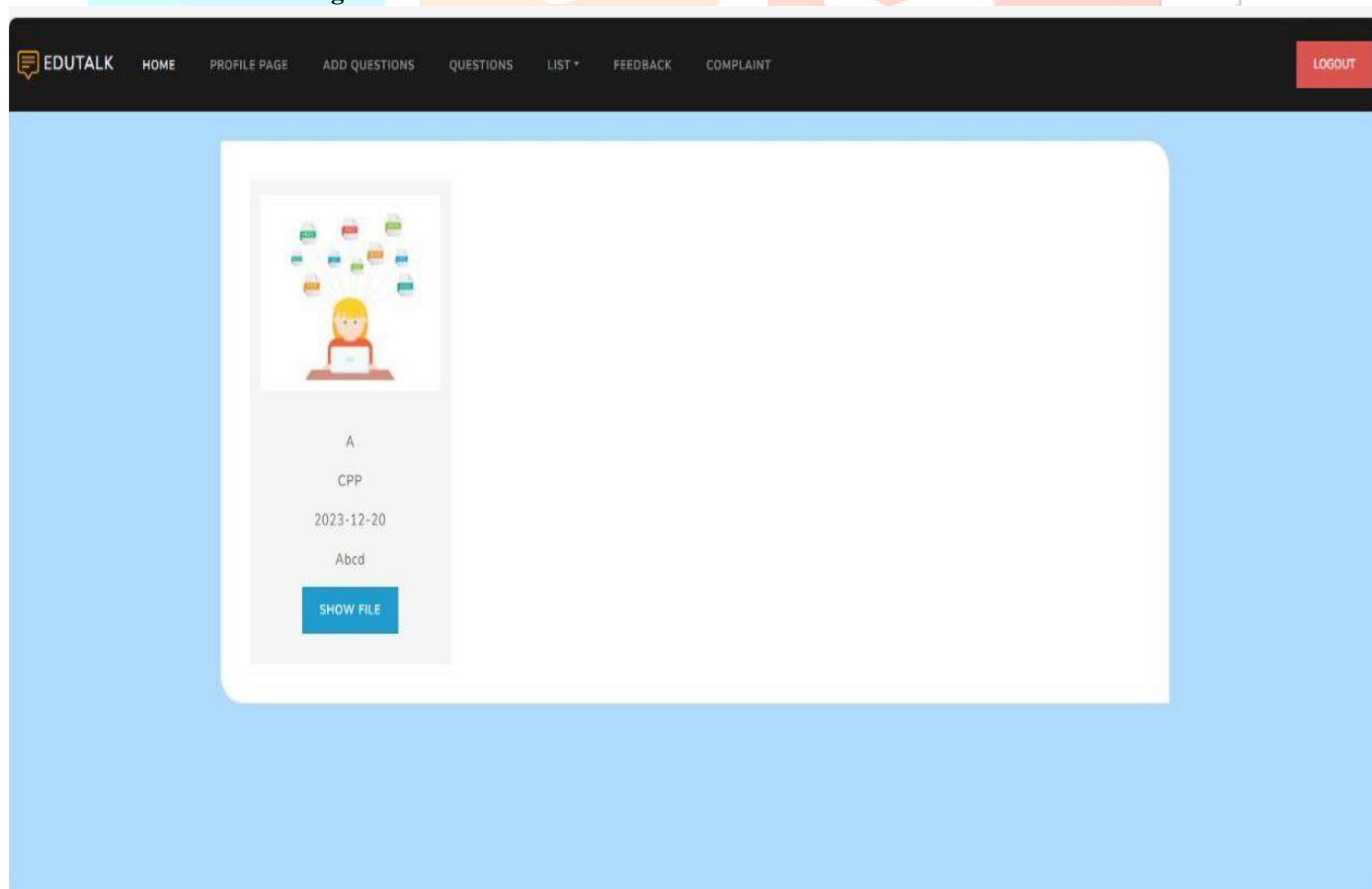This is the User Side User Apply Job Page. In this page User can view job alert and apply job.

4.9 User Career list Page.

Fig 4.9 User Career List Page.

This is the User Side career list Page. In this page User can see the guest lectures and important webinars related to the career.

4.10 User View Notes List Page

Fig 4.10 User View Notes List Page

This is the User Side Notes Page. In this page User can gate all important notes send by admin. User can also read download this file.

4.11 User Feedback Page.

Fig 4.11 User Feedback Page.

This is the User Side feedback Page. In this page User can fill above details and send their own feedback.

V. CONCLUSION

The EduTalk Discussion Forum for Students project is now 100% complete, achieving all set objectives. We began with thorough research, including IEEE papers and existing discussion forums, to inform our development process. The platform provides a comprehensive question and answer system, online job alerts, and a built-in online computer language compiler (e.g., JVM). Additionally, it offers features for knowledge and resource sharing. Developed using full stack web development technologies and the traditional waterfall method, the project was executed in a structured and systematic manner. EduTalk is now a valuable tool that enhances learning and fosters a collaborative student community.

VI. FUTURE SCOPE

- We will add message gateway for the user verification in login time.
- We will add machine learning algorithm for unwanted question and answer.
- We will develop android app version.

VII. REFERENCES

[1] Ling, C., Cui, D., Tong, G., & Zhu, J. (2021). "On Forecasting Dynamics In Online Discussion Forums." IEEE International Conference on Multimedia and Expo (ICME). doi:10.1109/icme51207.2021.942838, 2021

[2] Choudhary, P., & Shriram, R. (2020). "Short Answer Type Discussion Forum Analysis and Assessment." International Conference for Emerging Technology (INCET). doi:10.1109/incet49848.2020.91540, 2020

[3] Aparna Lalingkar, Prakhar Mishra, Sridhar Mandyam, Jagatdeep Pattanaik and Srinath Srinivasa. "Building a Model for finding Quality of Affirmation in a Discussion Forum." IEEE 20th International Conference on Advanced Learning Technologies (ICALT). doi:10.1109/icalt49669.2020.00043, 2020

[4] Ming Wu, M. Ali Akber Dewan, Fuhua Lin and Mahbub Murshed. "Visualization of Course Discussion Forums: A Short Review from Online Learning Perspective." IEEE Canadian Conference of Electrical and Computer Engineering (CCECE). doi:10.1109/ccece43985.2019.90524, 2021

[5] A. Oviya, Dr. V. Kavitha, Dr. N. Revathy and I. Sahaya Jaisha. "DISCUSSION FORUM FOR STUDENTS AND FACULTY" IJCSMC, Vol. 8, Issue. 9, September 2019, pg.112 – 118, 2020

[6] Darina M. Slattery. "Learning Analytics as a Tool for Evaluating Engagement in Technical Communication Discussion Forums." IEEE International Professional Communication Conference (ProComm). doi:10.1109/procomm.2018.00049. 2019

[7] Suraj, P., & Roshni, V. S. K. "Social network analysis in student online discussion forums." IEEE Recent Advances in Intelligent Computational Systems (RAICS). doi:10.1109/raics.2015.7488402, 2019

[8] Jimmy Patel and Abi Aghayere. "Students' Perspective on the Impact of a Web-based Discussion Forum on Student Learning." Proceedings. Frontiers in Education. 36th Annual Conference. doi:10.1109/fie.2006.322600, 201