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ijirset@gmail.com

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Improving Student Outcomes through Mentorship

Dr. M Nirmala¹, Ravi Shankar M V²

Associate Professor, Department of Computer Applications, Hindusthan College of Engineering and Technology,
Coimbatore, India¹

II MCA Student, Department of Computer Applications, Hindusthan College of Engineering and Technology,
Coimbatore, India²

ABSTRACT: The paper aims to create an interactive platform that connects students with experienced mentors to enhance their academic and personal development. Utilizing a robust PHP backend, the system will facilitate the matching process based on students' academic interests, career goals, and personal preferences. The platform will feature user-friendly interfaces for both mentors and mentees, allowing for seamless communication, scheduling of mentoring sessions, and tracking of progress. By providing resources and support, the project seeks to cultivate a culture of mentorship, enabling students to gain valuable insights, build professional networks, and achieve their full potential during their college journey.

KEYWORDS: college, mentors, mentees, jobs, student, company, PHP.

I. INTRODUCTION

Mentorship plays a crucial role in shaping the academic and personal growth of college students, offering guidance, support, and opportunities for professional development. The "Fostering Mentorship in College" PHP project addresses the need for a structured and efficient system to connect students with experienced mentors. By leveraging the capabilities of PHP, this project aims to develop a dynamic platform that streamlines the mentor-mentee matching process, facilitates effective communication, and provides tools for monitoring progress. This initiative not only enhances the student experience but also fosters a supportive community where knowledge and experiences are shared, ultimately contributing to the success and well-being of both students and mentors.

II. RELATED WORK

In developing the Improving Student Outcomes Through Mentorship, it is essential to review existing platforms and systems that have successfully implemented mentorship programs. Various educational institutions have adopted digital mentorship platforms, such as MentorCity, Chronus, and PeopleGrove, which facilitate mentor-mentee connections through sophisticated matching algorithms and user-friendly interfaces. These platforms often include features like communication tools, progress tracking, and resource sharing, which are crucial for effective mentorship. Additionally, research studies highlight the positive impact of structured mentorship programs on student retention, academic performance, and career readiness. Projects like the University of California's MentorNet and MIT's Alumni Mentorship Program have shown that digital platforms can significantly enhance mentorship experiences by providing scalable, accessible, and flexible solutions. Analyzing these existing works provides valuable insights into best practices and potential challenges, informing the development of a robust and effective mentorship platform tailored to the specific needs of college students.

III. METHODOLOGY

Database

- **Central Repository:** A centralized database stores all relevant data, student's details, staff's details, task posting details, letter request, task submission details.

User Roles and Functions

Mentor:

- **Post/view/edit tasks:** mentors can post, view and edit the task.

- **Select/remove mentees:** Mentors can select and remove mentees up to 20.
- **Task submission details:** Mentor can see all the students task submission and provide marks

Mentees:

- **View task Details:** Mentees can view the task and have to submit it before due date.
- **Reply for feedback:** Students can Reply for their feedbacks received from the mentor.
- **Letter request:** Students can request for bonafide certificate from the H.O.D by submitting a form.

Data flow diagram:

- The system's modular architecture allows for easy addition or replacement of modules, enabling future enhancements and scalability.



Figure 1: Level-0 Data Flow Diagram.

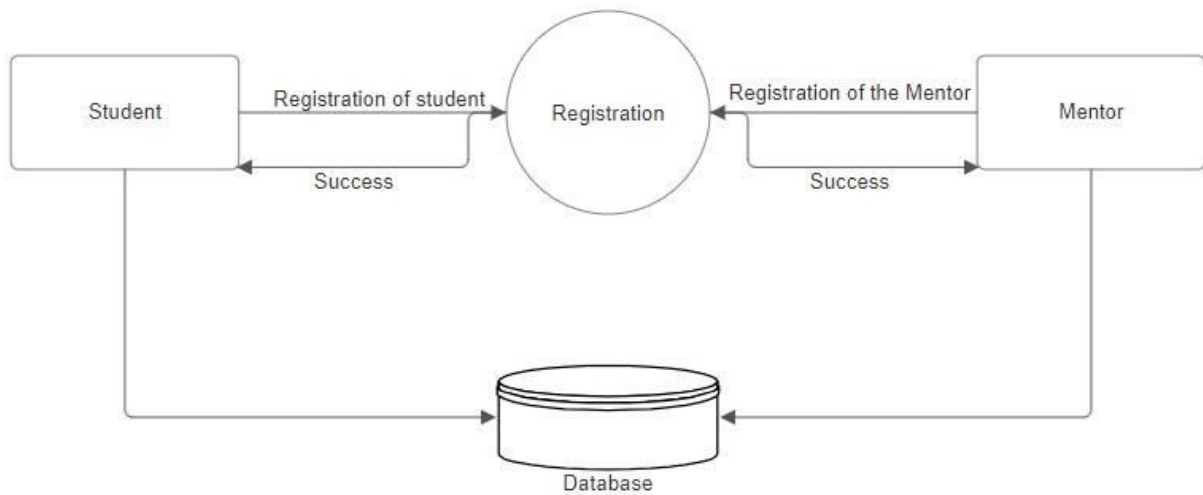


Figure 2: Level-1 Data Flow Diagram.

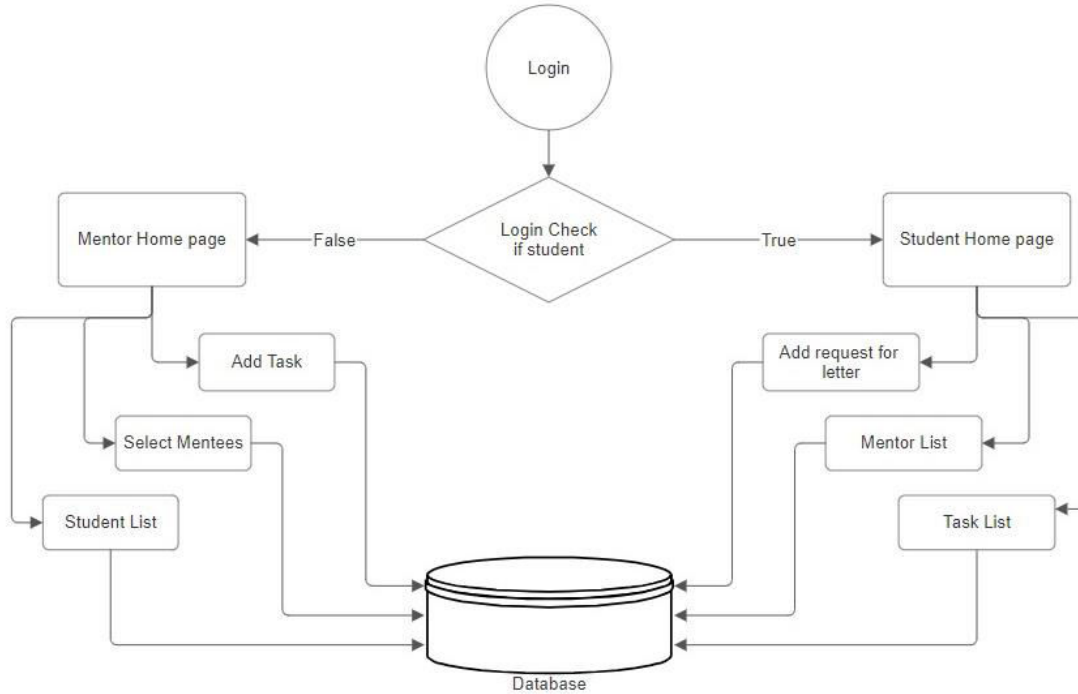


Figure 3: Level-2 Data Flow Diagram

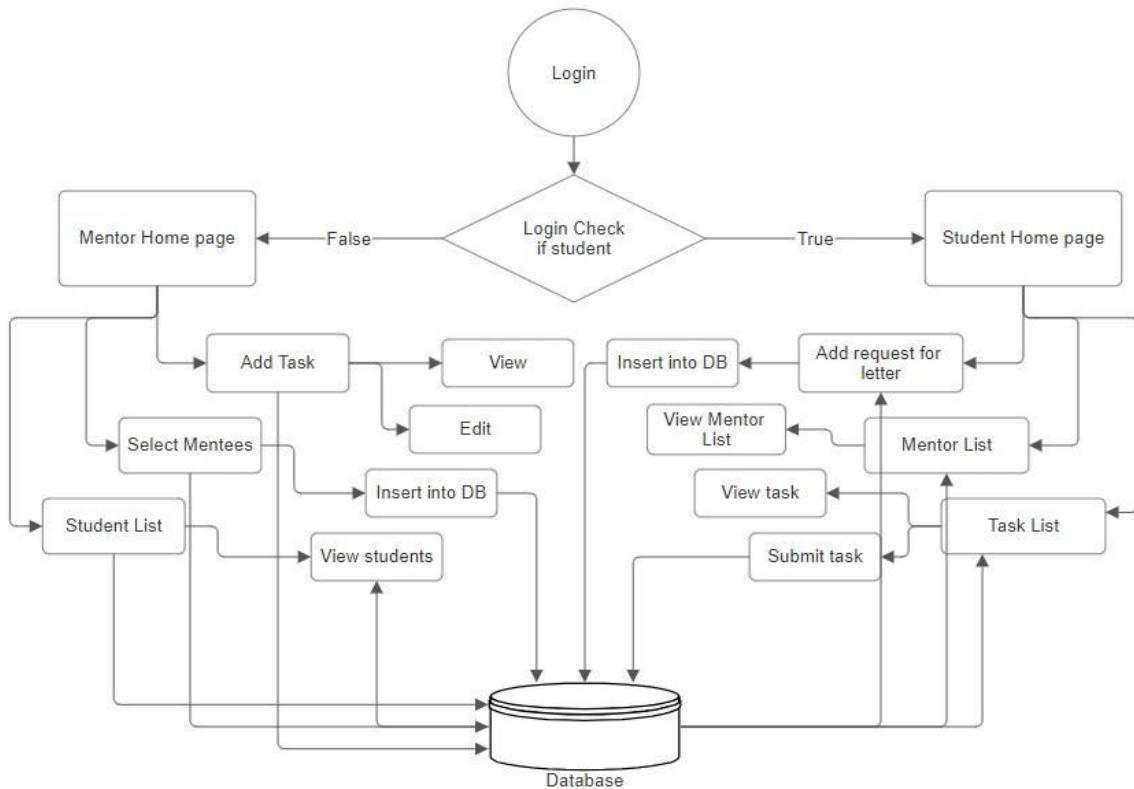


Figure 4: Level-3 Data Flow Diagram

Sample Screenshots:

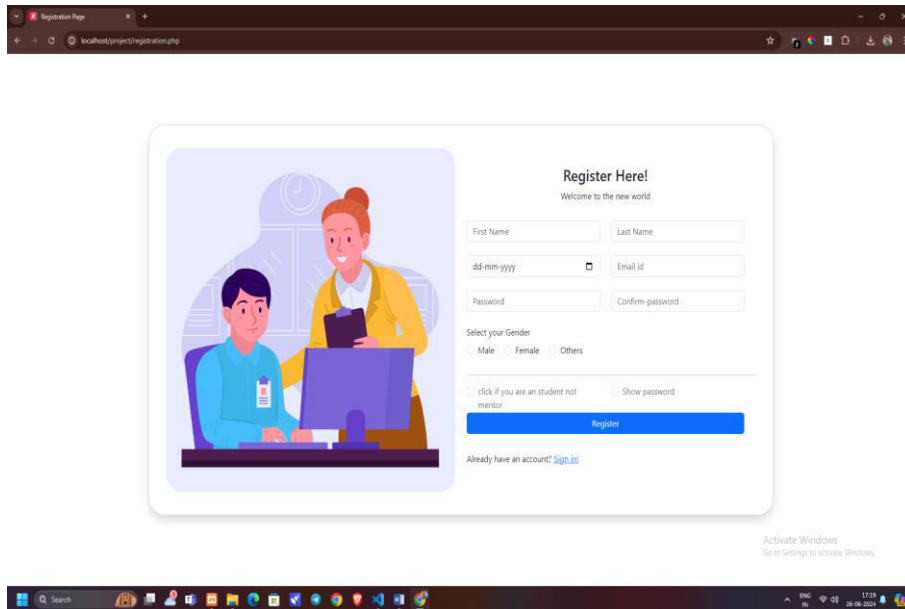


Figure 5: Registration page

This is page is used to create login credentials for both mentor and mentees.

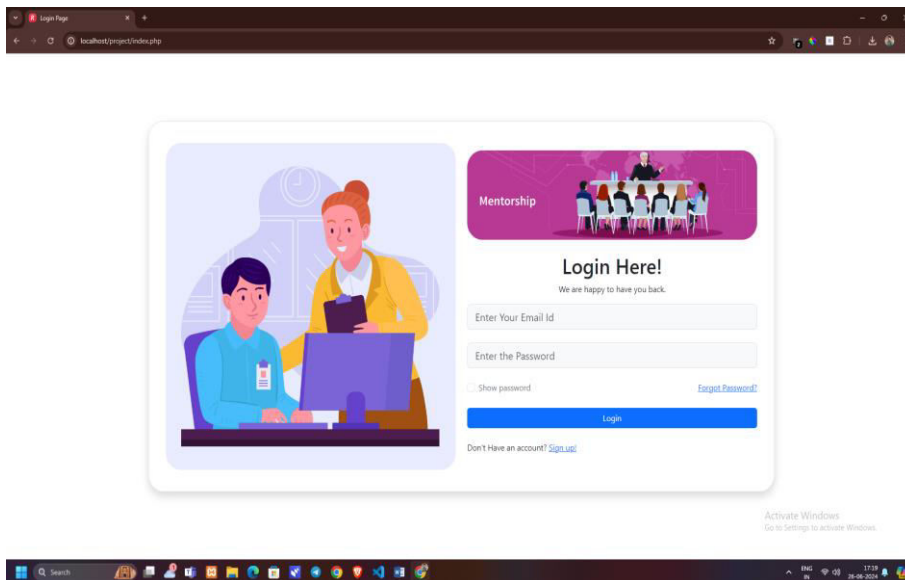


Figure 6: Login page

This is page is used to login for both mentor and mentees

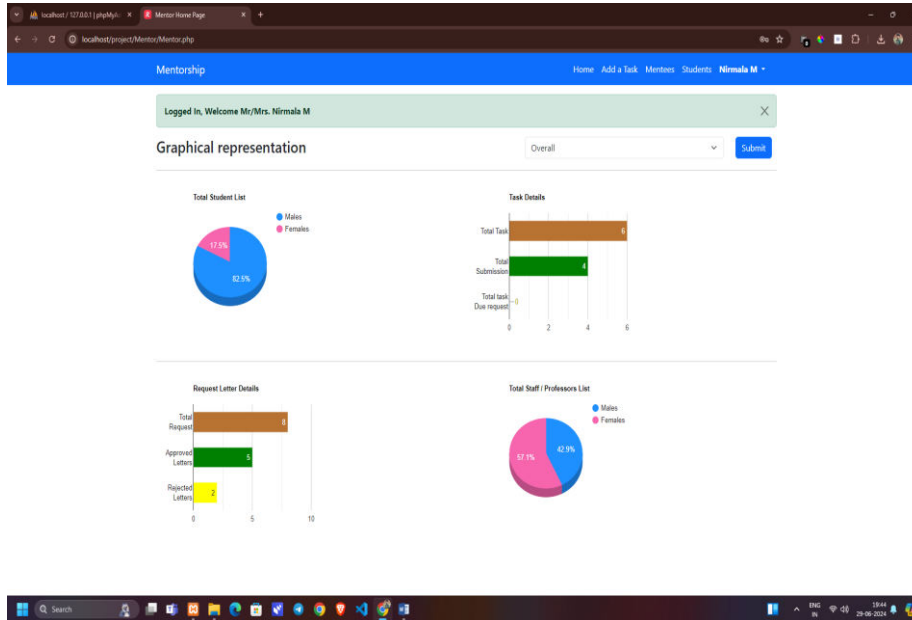


Figure 7: Mentor home page

This page is used to see the graphical representation of mentees details

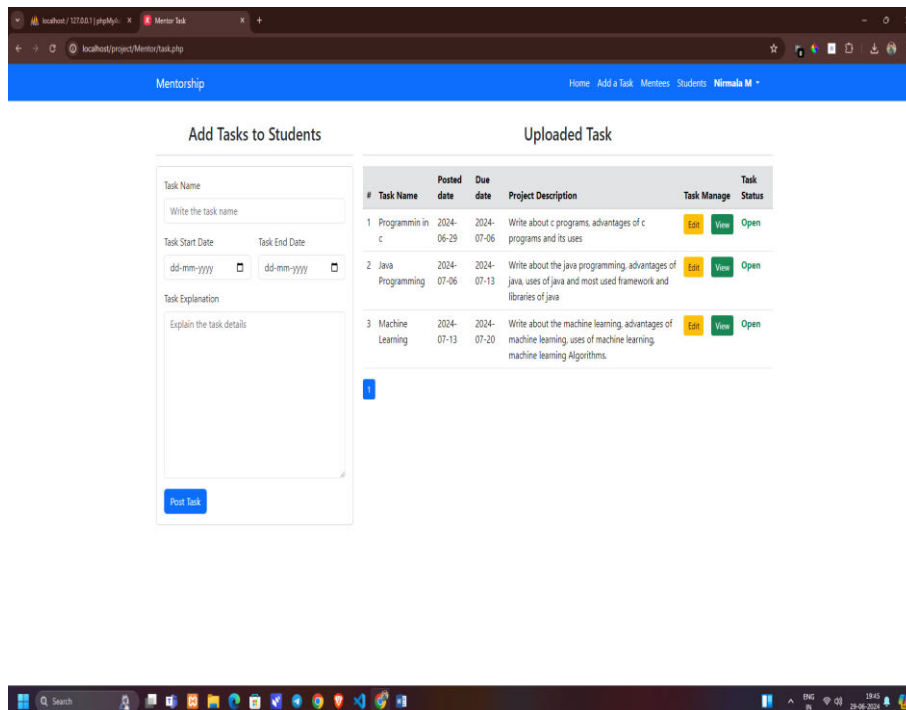


Figure 8: Mentor Task page

This page is used to post task for mentees.

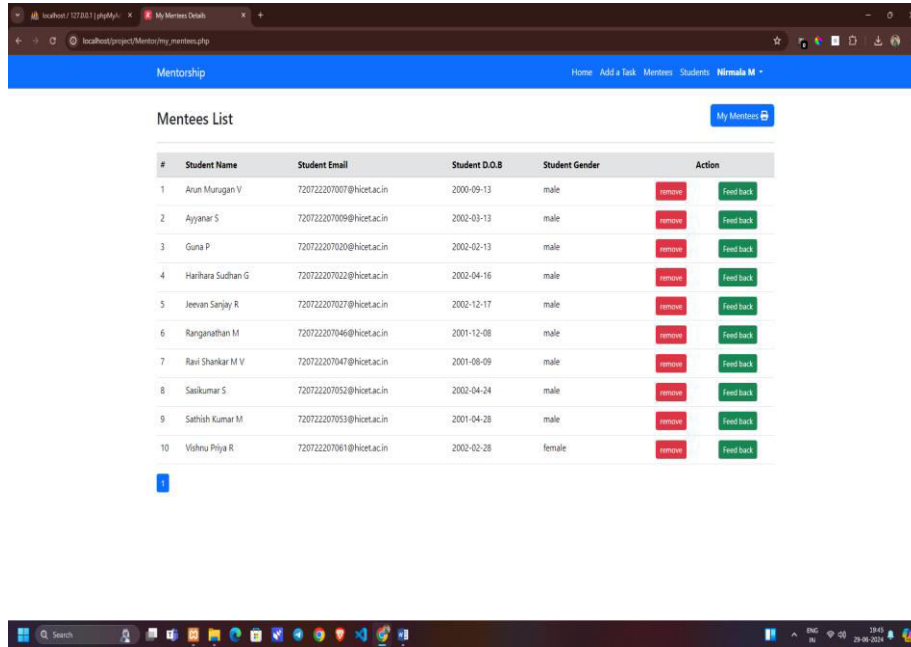


Figure 9: Mentee list page

This page is used to view mentees list and remove mentees and give feedback to mentee.

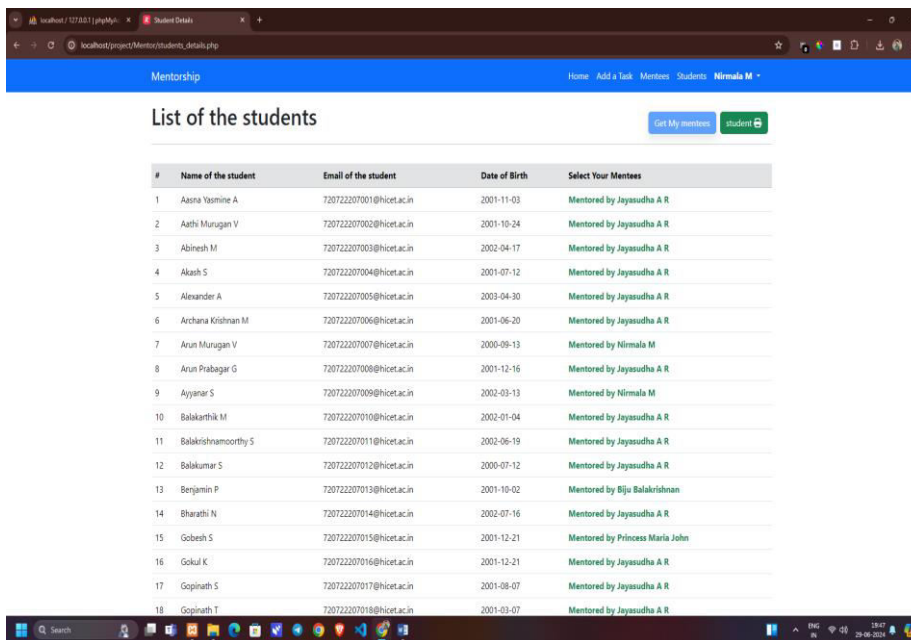


Figure 10: student list page

This page is used to select the mentee from the list,mentor can select upto 20 mentees.

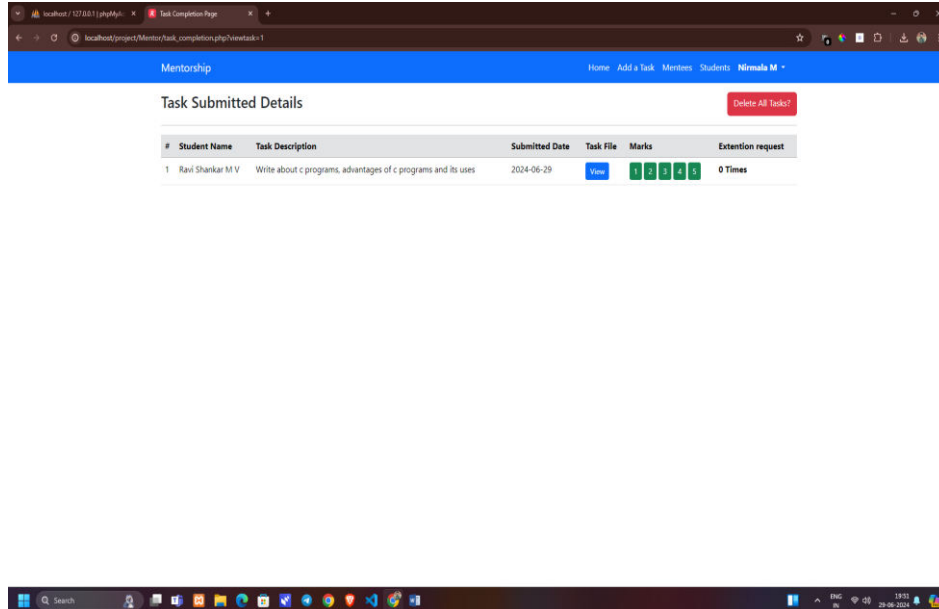


Figure 11: submitted task list page

This page is used view submission students and give them the mark upto 5.

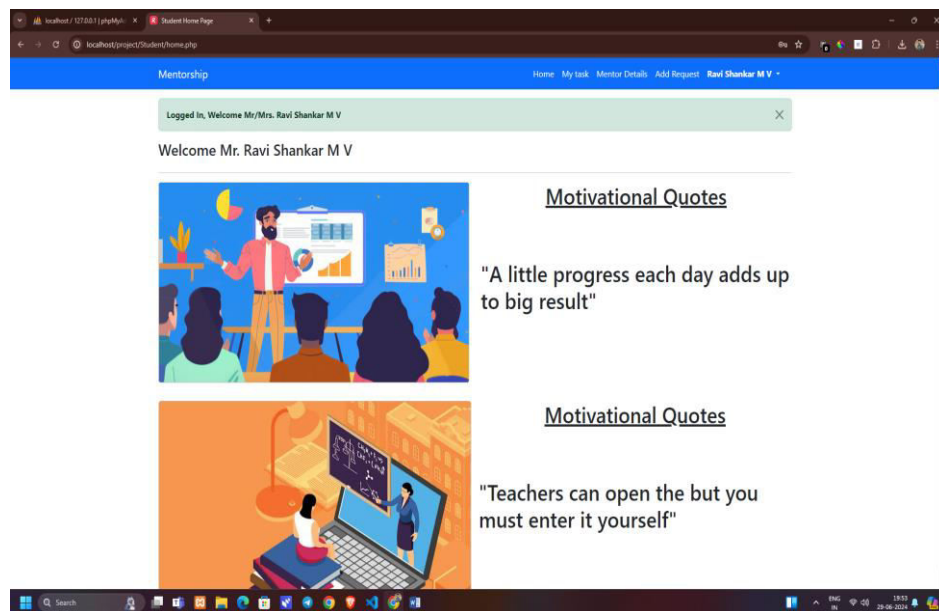


Figure 12: Mentees home page

This page shows two photos and a motivational quotes.

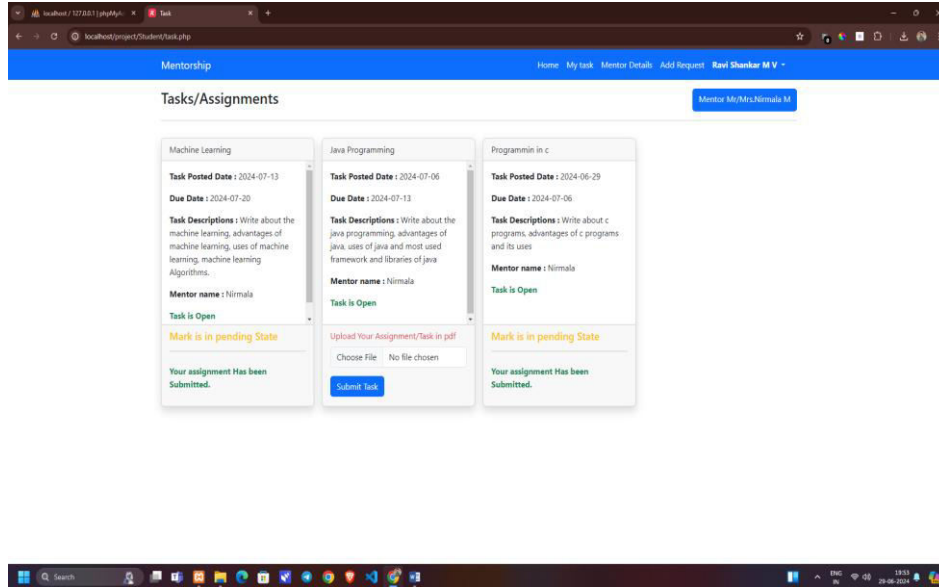


Figure 13: Mentees task submission page

This page shows the tasks posted by their mentor and mentees have to submit it by uploading a pdf file.

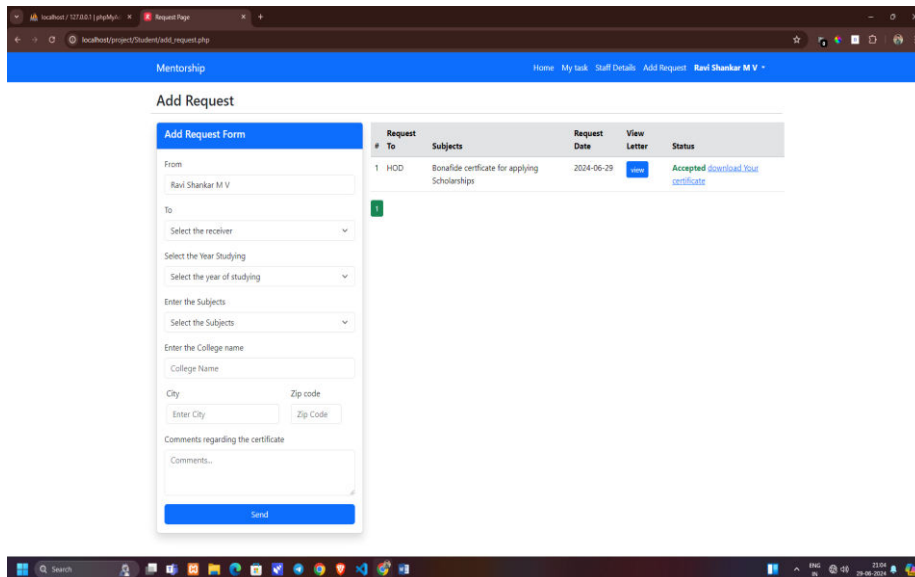


Figure 14: Letter request page

This page is used to request HOD for a bonafode certificate by filling the form .

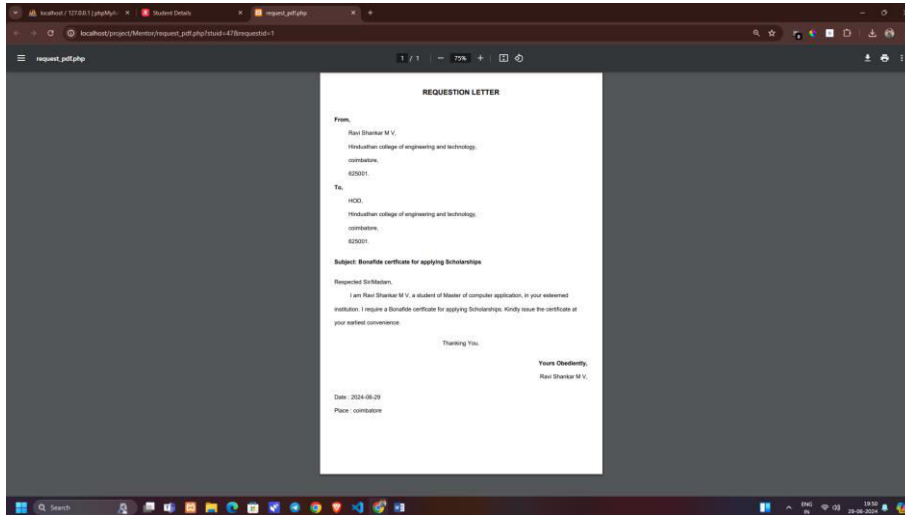


Figure 15: Letter format page

This is the letter send to the HOD by the filling the form.

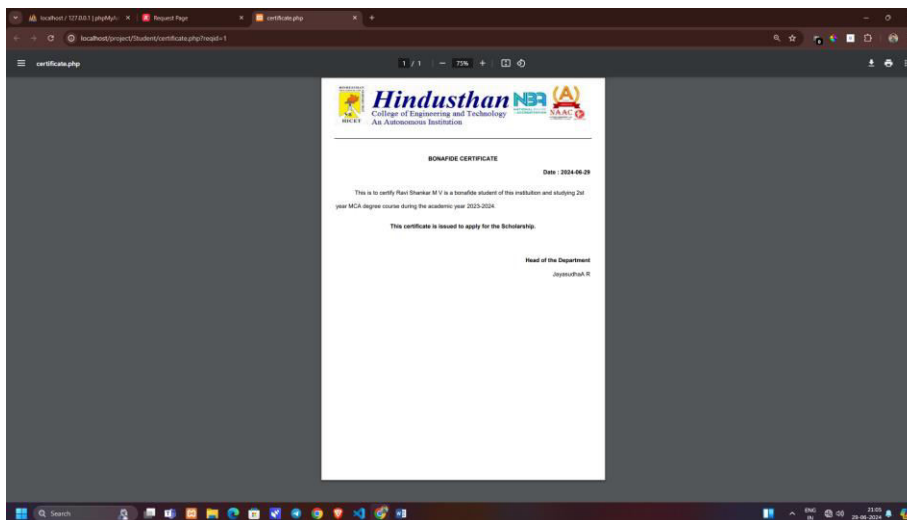


Figure 16: Received certificate in pdf

This is the bonafide certificate that will be received.

IV. CONCLUSION

Improving Student Outcomes Through Mentorship represents a significant advancement in enhancing the mentorship experience for college students. By leveraging modern web technologies and a user-centric design, this platform addresses the limitations of existing systems and provides a tailored solution that meets the unique needs of students and mentors. The comprehensive methodology, from requirement analysis to maintenance, ensures a thorough and systematic approach to development, guaranteeing a robust and reliable platform. The successful implementation of this project will facilitate meaningful mentor-mentee relationships, support students' academic and professional growth, and foster a supportive and collaborative community within the college. Through continuous feedback and iterative improvements, the platform will evolve to better serve its users, ultimately contributing to the success and well-being of the college community.

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