

MentorConnect: A Digital Platform for Structured Mentor–Mentee Interaction

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Abstract: In academic institutions, Mentor systems help the students by connecting them with staff that support and motivate them. Proper communication and interaction about academic performance, feedback improves skills of students. Mentor Connect is a platform that allows mentors and students to interact through scheduling sessions, messages, and providing feedback. Mentor can add their availability slot time, which can be seen by their mentee, so they can easily see the mentor at that available time.

This research helps in tracking student progress in academic by updating their continuous assessment test and semester marks, the student also uploads their academic certificate which can be accessed by using valid institution email id so that the misuse can be highly avoided because of the identity validation process. With this, students obtain career advice, personal support, and timely help, while mentors can check their progress and solve issues. This system helps the student in both studies and personal growth, and also to face real-life challenges with confidence.

Keywords: Mentoring System, Mentor–Mentee Interaction, Academic Progress Tracking, Web-Based Application, Session Scheduling, Secure Authentication, Student Support System, Digital Mentorship, Higher Education, MERN Stack.

I. INTRODUCTION

A mentor plays a major role in students' academic and professional development. Most of the students are facing issues in connecting with their mentors, and the main problem is mentor availability. In a traditional mentoring system, students have to meet their mentor during a scheduled time; the mentor may not be available, which leads to missed communication and limited opportunities for interaction. Then, finally, the students lost the correct guidance.

To overcome the traditional method This Mentor Connect web-based platform has been designed as that provides a structured and efficient way of communicating with their academic mentor. This web-based system enables students to easily view available time slots to contact with their mentors and schedule meetings then they can communicate directly with mentors and easily receive their continuous feedback. On the other of the side, mentor of the student can easily view their student details, also track their performance with this web-based platform, and easy to collect their continuous assessment test marks, and mentor can provide a timely feedback and advice to their mentees .

This web-based platform can makes it easy for both students and their mentors to stay connect and easy for connecting everything into platform. Mentees and mentors can log-in safely as this platform contain the admin for the safety of the web-based platform so that their information is protected .The Mentors can easily share their available times for their mentees to stay connected and students can schedule meetings with their mentors without any confusion of scheduling. Altogether, it creates a smooth and supportive way for mentors and students to work together.

By this mentorship process, Mentor Connect act as a bridge between academic guidance and industry expectations. It supports students in their learning journey, provides mentors with tools for effective tracking and helps to improve the mentees academic performance.

The main research gap in the traditional mentoring system is, students often struggle with the availability of mentors, irregular meetings, delayed feedback, and fewer opportunities to engage with mentors. Mentors are facing issues maintaining students' performance records, marks, and attendance. This traditional mentoring system leads to miscommunication, an unorganised mentorship process and missed opportunities for mentees academic growth.

The proposed work is classified into various sections such as Literature Review, Methodologies, Results and strategies for further enhancement.

II. LITERATURE REVIEW

In a study proposed by [1] explains how mentors in Open-Source Software (OSS) projects help the newcomers to overcome their difficulties. Mentors face issues like unclear processes, poor documentation, and problem in discussing, weak communication, and facing difficulty to assigning suitable tasks for beginner. They also struggle to manage time and handling many newcomers at once. To solve these problems, mentors use strategy like as tagging simple tasks, giving clear instructions, breaking tasks into smaller steps, and allocating tasks for the newcomer to improve their skills. The authors suggest future improvements like automated task recommendation tools, better mentor training, inclusion practices, and also tracking newcomer progress.

A new application named Bio Sense, a multiplatform AR (Augmented Reality) learning tool was introduced which is used for studying human biology with 3D interactive models. Using marker-based AR, users scan images and textbooks to view organs, labels, and animations in real time. For modelling and tracking the system uses Unity3D, Blender, and Vuforia. The main aim of the application is to improve students to understanding of complex biological structures and that works on various platforms like Android and Windows. Future upgrades include adding more models, quizzes, animations, and AR for better accessibility [2]

A digital Platform Mentor Connect was developed by using the MERN (MongoDB, Express.js, React and Node.js) to solve major problems like task scheduling, poor communication, and limited progress tracking of the mentees. It includes major features such as role-based access, attendance percentage alerts, video meetings based on Jitsi and custom dashboard. The platform helps to supports dual mentorship, analytics, and organized record-keeping for better mentor–mentee understanding and communication. It enhances flexibility and engagement compared to manual methods. Future upgrades include on advanced AI-based matching, a mobile app, and advanced analytics.[3]

A research work proposed in [4] implemented Augmented Reality based learning which merges real-world materials with 3D digital content. Marker-based AR triggers display of 3D models and animations using various animation utilities such as Unity3D, Adobe Illustrator, etc., This system helps to visualize complex concepts more clearly better than traditional teaching. It supports real-time interactive communication, active learning and clear communication, but it faces problems like limited marker dependency and limited animations. Future improvements include tracking, multilingual support, and more interactive animations.[4]

The study that explores various mentor–mentee interactions during teaching in public schools is proposed in [5]. Effective mentorship relies on feedback, emotional support, and guidance to mentees. Weak or limited mentor involvement causes confusion and low confidence among mentees. Positive interactions improve classroom management, time management; improve teaching skills, and professional growth. The authors recommend stronger and better mentor training, improved education programs, improve student skills and structured practicum frameworks.

This study evaluates the NSF (National Science Foundation) Mentor-Connect initiative focused on helping two-year colleges' student to improve technician education through grant proposal mentoring. The program offers workshops, guidance, and technical support to colleges with little grant-writing experience. Outcomes include higher proposal success, better faculty confidence, and improved STEM (Science, technology engineering and mathematics) programs, improve communication, improving students skills and more student opportunities. Challenges include heavy workload, limited infrastructure, and partnership issues. For future improvement the authors suggested continued mentoring for better understanding of the mentees, post-award support, and shared resources to improve long-term impact. [6]

The study examined the most important need for mentoring among postgraduate (PG) students in India and highlights gaps in existing mentoring practices. Through group discussions with the students of Post Graduate in Business Administration specialization the authors founded that mostly learners feel that mentorship is essential during the transition to postgraduate studies. Students mostly prefer informal mentors due to their comfort and emotional openness, some student believes formal mentors help shy students participate. It is founded that mentoring supports academic guidance, personal development, skills development, confidence- building, and readiness for the corporate world. The study recommends structured mentor training and a formalized implementation allowing students flexibility in choosing mentors.[7]

The study examines major need for mentoring among postgraduate students in India by using detailed group discussions. It highlights that students facing struggle during transition to PG studies and require academic, emotional, and career guidance for the student. Many students prefer informal mentors for comfort, while others students feel formal mentors help shy students to open up. Both groups agreed that mentoring formal or informal is essential for student's better support, guidance, personal development, knowledge sharing and skills improvement. The authors recommend structured mentoring programs and trained faculty mentors for better implementation.[8]

A methodology Community Mentoring Program is explained in [9] to connect high school students with local business and industry professionals to improve their career awareness and workplace guidance. It outlines a structured model involving leadership teams, mentor recruitment, scheduled mentoring sessions, and continuous evaluation for student engagement and interaction. The program strengthens school community relationships and helps students to gain skills, guidance, and confidence for their future career paths like choosing their future studies.

This study presents a student mentor application designed to improve academic support by intelligently matching students with suitable mentors using machine learning for better guidance for the students. The system includes real-time chat, video calls, tracking progress of the students activity and collaborative tools to enhance good communication and learning outcomes. Pilot testing significant improvements in student communication, skills ,performance, and satisfaction. The paper explained how digital mentorship can overcome the limitations in traditional mentoring and recommends scalable, secure and interactive features for future development.[11]

An AR based educational application was developed to displays 3D models and improve content by using marker-based tracking. The system was built with the help of using Unity3D and Vuforia, then using tools like Blender and Illustrator for creating 3D assets. The study explained that AR improves student engagement and also helps students to understand complex concepts easily than traditional methods. They also recommend expanding content library, adding marker less tracking, and improving animations for future development.[12]

The paper proposed in [13] highlighted the importance of choosing multiple mentors, setting better expectations, maintaining communication, improving skills and managing the mentor–mentee relationship. The authors emphasize that mentees must be proactive, goal-oriented, and open to feedback to make effective mentorship. They also stress that strong, respectful mentor communication, improve career development, work–life balance, and long-term success.

In this study, the authors analysed mentoring and professional development interactions among junior university faculty by using a 15-week diary checklist method. They compared demographically underrepresented and privileged faculty based on the gender and ethnicity. Results showed that underrepresented faculty received fewer mentoring interactions, fewer high-status contacts, less communication and less tenure-critical guidance. Over a typical tenure period, this gap may accumulate into a significant long-term disadvantage. The authors recommend formal mentoring programs to ensure equity and improve faculty retention for better future to the student. [14]

In this study, the authors examined the importance relationship of mentor–mentee in the professional development of trainee teachers during teaching practice. The research was conducted through in-depth qualitative interviews with 15 English teacher trainees in Hungary after their graduation. The results revealed that trainees experienced both positive and problematic mentoring relationships, where supportive guidance, interactive, improving skills, constructive feedback, and freedom to experiment were highly valued.[15]

The way of educating adolescent girls that can improve health, nutrition, and economic development were discussed in [16]. It is insisted that proper education to girls would improves awareness about child marriage, strengthens decision-making, and also increases career opportunities so as to have a better income. It also emphasized the role of awareness programme, girl education and government schemes for improving girls' school enrolment. It concluded that educating girls creates long-term social and economic benefits for their families and society.

A research work explained about mentoring relationships during COVID-19 which adapted open communication and realistic expectations. The authors highlighted that both mentors as well as mentees face challenges in productive work, emotional hardships, exchanging responsibilities, and productivity challenges, and importance of compassion. It is emphasized the need for adaptive planning, authentic sympathy, and culturally aware mentoring practices. And focus on realigning expectations would helps sustain healthy mentoring relationships and better support in difficult times.[17]

The importance of strong brand equity that built through consistent marketing strategies, memorable brand identity, and positive customer experiences is explained in [18]. It paid attention to managing a brand that requires interpreting

customer perceptions, creating unique value, and maintaining committed long term relationships. The authors accentuated that brands should adapt to market changes, use effective communication, and measuring performance by using brand tracking tools. Overall, this study shows that strategic brand management is essential for building trust, loyalty, good communication, good relationship and competitive advantage.

An advanced Arduino-based project is demonstrated to show an open-source hardware that can support in practical automation and control system learning. It highlighted the prominent role of sensors, microcontrollers, and embedded programming in developing low-overhead and efficient engineering solutions. It is concluded that these practical systems refine students to gain deeper insight and also to provide a robust framework for further professional growth.[19]

This paper explained how mentoring supports digital competency development by identifying major problems like limited psychological support, technology barriers, and unstructured practices of mentoring. It explained that research gaps are involving diverse populations, cultural factors, underrepresentation of women and minorities in digital mentoring. Overall, this study showed need for improving frameworks and future research to build effective, inclusive, secure and technology mentoring models.[20]

For developing digital competencies in mentoring system, major challenges are limited in mental health support applications, then limited in technological supports and consistent program structure needs to be faced. It identifies major gaps like lack of research on diverse groups, and impact on long term mentoring . Overall, it insists need for digital mentoring frameworks to create better personalized and effective learning methods.[21]

In this paper it is interpreted that mentorship plays a vital role in students' problem solving, academic success, personal skills and professional development. It is found that students facing many problems like lacking in proper mentoring and despite its strong impact on confidence, skills, and career readiness. The study concludes that consistent mentorship should be integrated at every level of education for student development.[22]

The research work explained showed teachers' strong resilience during COVID-19 by adapting remote teaching, practices and learning new technology and digital tools. It shows that online teaching improved students digital proficiency, practical wisdom, innovation, and confidence, helping them to navigate challenges effectively. Overall, this study emphasizes that integrating online teaching methods into teacher training program helps to strengthen future educators to better knowledge development and preparedness.[23]

E-mentoring is an important method to develop digital competences by combining flexible online guidance with collaborative learning. It infers that how digital tools, IC technologies, and virtual support improve students autonomy and improving their skills. As a whole, the study shows that well-designed e-mentoring programs enhance digital literacy and educational outcomes.[24]

A structured mentoring program, like the Palliative Medicine Initiative, that focus on mentoring relationships through phase by phase, customized mentorship, proper counseling and continuous support is explained in [25]. This system significantly shapes students' professional identity by influencing their values, confidence, and behaviour. Overall, the study call attention to that well-designed mentoring systems improve learning, skill development, and the formation of professional attitudes.

III. METHODOLOGY

IV.

Our Mentor Connect system is developed as a web- based application using ReactJS for front-end, Flask for back-end, and MongoDB for database. This methodology involves secure authentication, session booking, certificate management, and academic progress tracking, file downloading. The following sections describe the major components of the methodology.

A. Secure User Authentication

Secure login and registration mechanisms are implemented in our project using hashed passwords and token-based authentication. This verifies user, Role-based authentication ensures that mentors, mentees, and admins have different permissions .If an unauthorized user enters the page the admin can easily remove the unauthorised user to avoid the confusion so the mentees with their college mail id are only attend the Sessions as they are protected with JWT (JSON Web Tokens) to prevent unauthorized access.

B. Mentor–Mentee Session Scheduling

A structured booking module allows mentees to schedule sessions with availability of mentor. The front-end displays available time slots, and the back-end handles schedule validations. MongoDB stores sessions details, which users can view or update from their dashboards. The mentor can see the scheduling

C. Certificate Management

This project allows users to download certificates for mentor verification of student progress, Users can download these certificates directly through the portal. The feature ensures authenticity, quick access, and proper record-keeping and the mentors can collect the certificates easily through the online mode and it can be verified easily.

D. Academic Progress Tracking

Mentors can update mentee progress details regularly, and mentees can track their academic development. The database stores performance records, achievements, and mentor feedback. The front-end converts this data into a user-friendly visual format for clear understanding. The proposed flow diagram is depicted in Figure 1.

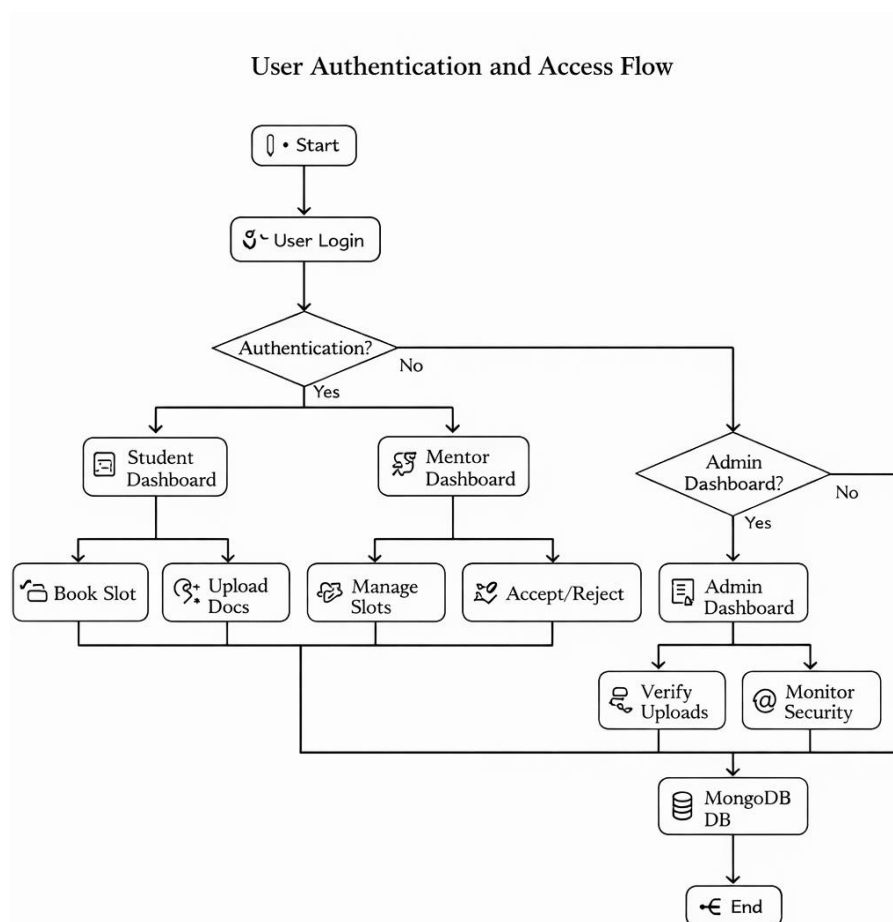


Figure 1. Proposed flow diagram

E. File Downloading Module

The system includes a secure file download feature for materials such as guidelines, reports, reference documents, or certificates. There is safe and authenticated document delivery.

F. API Integration and Communication

The system uses RESTful APIs for communication between the ReactJS front-end and Flask back-end. Data is exchanged in JSON format, ensuring fast and efficient operations. Proper error handling, request validation, and response formatting are followed to maintain system stability. Details about Mentor Registration are specified in Figure 2.

Mentor Registration

Fields marked with * are required

Must contain @dmgpasc.ac.in

Figure 2. Mentor Registration

3

ACTIVE STUDENTS

8

UPCOMING MEETINGS

1

AVAIL. SLOTS

Your Profile

Update your professional details, expertise and contact info.

Open Profile

Availability

Set and manage your available time slots for students to book.

Manage Slots

Meetings

Review all upcoming sessions and details at a glance.

View Meetings

+ Schedule Meeting

Create new meetings with video links (Zoom, Google Meet, Teams).

Schedule Meeting

Students

See your mentees and record performance notes and marks.

Open Students

Student Examinations

Review uploaded exam marks and provide structured feedback.

Review Exams

Mentee Details

View comprehensive mentee information and download PDF reports.

View Details

Recurring Meetings

Set up recurring meeting schedules with your students.

Create Recurring

Meeting History

View and search through all past meetings with detailed information.

View History

Meeting Notes

Add and manage notes for your meetings with students.

Manage Notes

File Sharing

Share resources and study materials with your students.

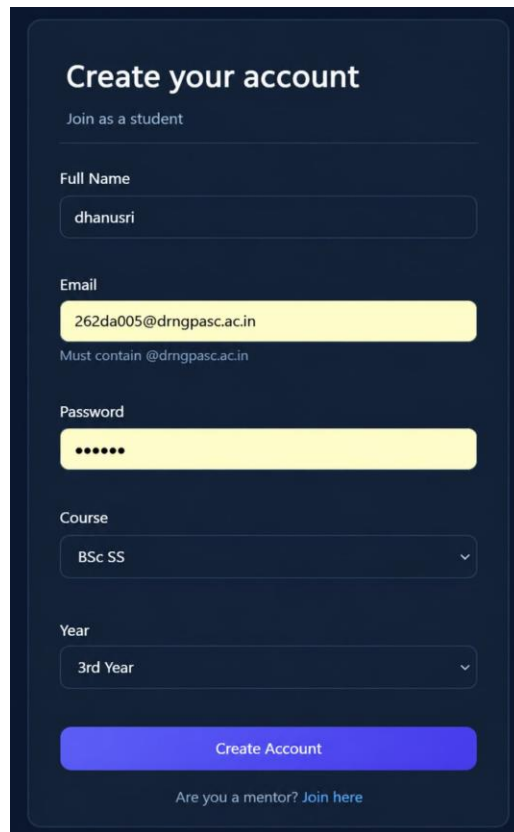
Share Files

Analytics Dashboard

View comprehensive analytics and generate reports.

View Analytics

Figure 3. Mentor Page



Create your account

Join as a student

Full Name
dhanusri

Email
262da005@drngpasc.ac.in
Must contain @drngpasc.ac.in

Password
.....

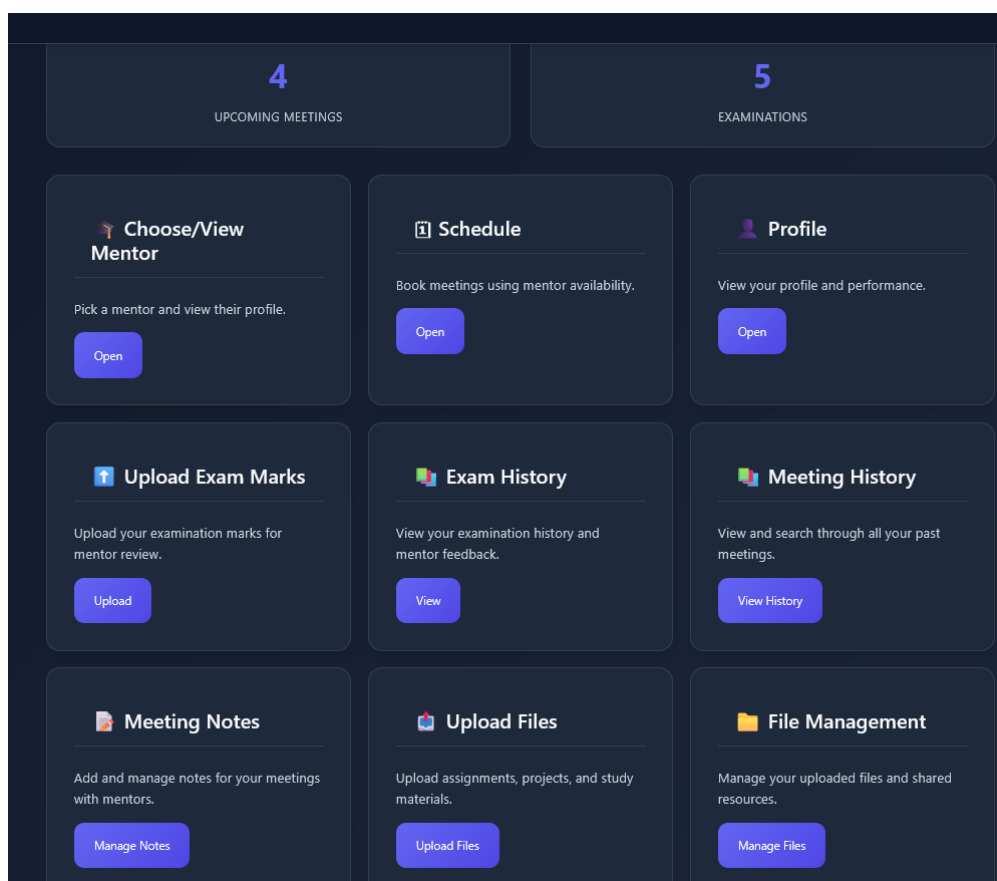
Course
BSc SS

Year
3rd Year

Create Account

Are you a mentor? [Join here](#)

Figure 4. Mentee Authentication



4 UPCOMING MEETINGS

5 EXAMINATIONS

Choose/View Mentor
Pick a mentor and view their profile.
Open

Schedule
Book meetings using mentor availability.
Open

Profile
View your profile and performance.
Open

Upload Exam Marks
Upload your examination marks for mentor review.
Upload

Exam History
View your examination history and mentor feedback.
View

Meeting History
View and search through all your past meetings.
View History

Meeting Notes
Add and manage notes for your meetings with mentors.
Manage Notes

Upload Files
Upload assignments, projects, and study materials.
Upload Files

File Management
Manage your uploaded files and shared resources.
Manage Files

Figure 5. Mentee Page

V. RESULT AND CONCLUSION

The proposed integrated web based platform was designed and implemented which enables interaction between mentors and mentees by scheduling meetings and providing feedback for their performance based on their academic performance with some secured features such as authenticated login, admin handling page and session scheduling, academic progress tracking, certificate management, and file downloading.

This platform also strengthens communication between mentors and mentees in a way that mentees were able to view mentor availability and sessions can be allocated easily, along with timely guidance from their mentor. Mentors could efficiently monitor student performance and update assessment marks, verify certificates, and provide feedback through a single web based platform.

The secured login process using institutional email IDs and the admin page prevents unauthorized access and if any unauthorized user enters this platform the admin can easily remove them and ensure data privacy. The academic progress tracking module allowed students to clearly understand their performance, so that they could improve easily while mentors could identify areas where students needed improvement.

Conclusion – This Mentor Connect web application affords an effective and digital elucidation to conquer the limitations of the traditional mentoring systems. This brings the mentoring activities into a single and simple web-based platform, which improves the communication, precision, and user-friendliness between mentors and mentees. The web-based platform supports mentees not only in academic growth but also in personal maturity by offering appropriate guidance and well-thought-out interaction, as well as uninterrupted feedback.

Mentors can benefit from organized evidence supervision and easy scheduling, and the healthier tracking of mentee progress. Subsequently, secured authentication and controlled access can facilitate and guarantee the well-being and trustworthiness of the web-based system. In conclusion, this Mentor Connect reinforce the mentor–mentee a good rapport and creates an encouraging learning environment. So, it helps students become more confident, well-intentional, and equipped to face academic and real-life challenges. Also, with future enhancements such as mobile application support and AI-based mentor correspondence, the system can further develop digital mentoring in higher education.

VI. FUTURE ENHANCEMENTS

Future this web-based platform will improve the effectiveness of Mentor Connect and gradually improve and include the incorporating AI so that it matches mentors and mentees automatically, with consideration of their feedback and the progress needed for their career growth, interests, and goals in their lives. This allows the students to benefit from their higher education and the personalized advice and well-being mentoring sessions.

Mentor Connect can be designed and developed in a mobile application format, so that the student can easily access it, whereby mentors and their mentees can be able to be connected with the use of the system from their own mobile phones, and this increases the connection with their mentor, and they can also attend the conference from home, so that they can attend online sessions at their home and easily develop their projects and ask their doubt and clarify.

Moreover, this enhancement will be the mentor to collect their mentee reiteration which was being collected in the traditional form, so that this can be very useful to keep all the records of the students safely and the cat marks and each semester marks can also be maintained with the help of this web-based platform until the student complete the degree.

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