Semester: VII **Class / Branch: BE IT C**

Academic Year: 2025-26

Group No: C2

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Title: MentorConnect - A web framework for inclusive mentorship and lifelong learning empowerment.

Project Proposal

Abstract:

Mentorship plays a vital role in shaping an individual's career or academic journey. However, in today's competitive world, many aspiring students and professionals lack access to structured mentorship. Our project proposes a digital platform that bridges this gap by connecting mentees with experienced mentors from diverse industries. The platform allows mentees to book sessions based on mentor availability, interact through integrated video calls and chat, and gain insights into career growth and skill development. The system features calendar booking (via custom logic), role-based dashboards, secure virtual sessions, and post-session feedback offering a comprehensive mentoring ecosystem that empowers the next generation of professionals.

Objectives:

1) To provide booking for sessions based on mentor's availability.

2) To provide secure video conferencing facility for live interaction.

3) To enable chat functionality between mentor and mentee.

4) To allow mentees generate resume considering the courses, internship and certifications they have completed.

Scope:

1) Can implement real-time automated session booking for session scheduling based on mentor's availability

2) Can implement document sharing via chat

3) Can allow mentees to submit the feedback after each mentorship session.

4) Can show ratings of mentors based on feedbacks received.

Technology Stack:

Frontend:

- HTML, CSS and JavaScript
- Bootstrap 5

Backend:

- Django REST Framework (Python)

Database:

- SQLite3

Third Party Integrations:

- Jitsi Meet (for embedded video calls)
- SMTP (for email)

SDG Compliance:

SDG 9: Industry, Innovation, and Infrastructure - Build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation.

Our project, MentorConnect project aligns with SDG 9: Industry, Innovation, and Infrastructure by acting as a digital infrastructure that bridges the gap between mentors and mentees in an inclusive and sustainable way. Just as resilient infrastructure and technology are essential for industrial progress, MentorConnect provides a strong, reliable platform where students can easily connect with mentors who match their career or academic goals. By offering features such as real-time session booking, secure virtual meetings, and integrated chat communication, the project creates a centralized system that supports innovation in learning and guidance. The platform also fosters innovation by enabling mentors to share resources, provide feedback, and track progress digitally, which encourages a more research-driven, technology-enabled approach to education.

Research Paper:

1. Student mentoring to enhance graduates' employability potential

   https://www.sciencedirect.com/science/article/pii/S1355030622000570?ref=pdf_download&fr=RR-2&rr=967ab439eb9889fc

2. Designing an AI-Powered Mentorship Platform for Professional Development
   https://www.researchgate.net/publication/382691389_Designing_an_AI-Powered_Mentorship_Platform_for_Professional_Development_Opportunities_and_Challenges

3. Exploring Dynamic Mentoring Models in India
   https://www.researchgate.net/publication/316214561_Exploring_Dynamic_Mentoring_Models_in_India