

Software Engineering Mini Project Stage – II

Project Synopsis

Topic - Online Mentorship Platform for College Students

TY Computer Div 1 – Batch - T5

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1.Problem Statement

To build an online mentoring web platform for college students to help them connect, clarify doubts and gain career guidance from industry experts and skilled professionals.

2.Software Requirements

Our project is a Web Application which will use following Web Technologies –

- Scripting Language - JavaScript
- Frontend Framework - ReactJS
- Backend Framework - NodeJS, ExpressJS
- Database – MySQL
- Deployment – Heroku/Netlify/Vercel
- Tools – IDE, MySQL Workbench/XAMPP Server

3.Objectives

- Give students a platform to ask questions, discuss ideas and clarify their doubts with the mentors and other students on learning different skills beyond the scope of their college curriculum.

- To help students gain exposure to mentors with diverse experiences, gain advice from them regarding different career prospects.
- Connect students with voluntary mentors based on their availability, without long term time constraints.
- Provide skilled individuals a platform to mentor and guide fellow students through experience, and also enhance their knowledge through discussions.
- Provide resources on different topics to the students to learn skills in a structured manner.
- Build a strong community of college students interested in learning different skills for discussion and project collaborations.

4. Background

The coronavirus pandemic has forced students and educators across all levels and fields of education to swiftly adapt to and shift to online learning mode. Due to this reason, cohorts of technologists have also started mentoring and posting resources in their field of expertise. Due to the plethora of resources available online, students are often confused while choosing among them and also have doubts regarding the credibility of the information posted. Our goal is to ensure that students don't fall prey to misinformation and get the apt guidance and information about the topic of their interest.

Secondly, many experts of the industry have the ardour for mentoring students and sharing their knowledge in various fields like Software Development, Machine Learning, Cloud Computing, Development Frameworks etc. Their industry experience is always a plus point for students. Our goal is to help students in connecting with industry experts in particular fields and getting correct information and guidance on the topic. Students will thus be able to ask doubts, provide feedback and get their misconceptions cleared.

5. Hardware Requirements

A Laptop with adequate support and internet connection to install a Web Browser and subsequently run the Web Application on the Web Browser.

6.Features/Functionalities

- Experts will be able to Sign Up to create the mentor profiles.
- Students will be able Sign Up to create student profiles.
- Student will be able to see list of mentors available and their experience and expertise in the different fields.
- Students can thus create a request for scheduling a mentorship session with a particular mentor and post it
- Mentors can see the list of requests and can respond to the request.
- Mentorship session can then be held on a particular platform.
- Students can provide feedbacks on the session.
- Resources on different topics will be available to a student on the platform and they can access it.

6.References

- <https://reactjs.org/>
- <https://nodejs.org/>
- <https://www.w3schools.com/>
- [https://www.researchgate.net/publication/332196330 Online Mentoring System An Online Mentor-Student System](https://www.researchgate.net/publication/332196330_Online_Mentoring_System_An_Online_Mentor-Student_System)
- <https://www.mentoring.org/wp-content/uploads/2020/03/E-Mentoring-Supplement-to-EEP-1.pdf>