



Btech six months inhouse project

MENTOR MANAGEMENT SYSTEM

Under the guidance of : **Dr. Nitin Palan**

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Content

- 01** Problem Statement
- 02** Introduction
- 03** Literature Survey
- 04** Objectives
- 05** Technology
- 06** Data Flow
- 07** Specifications
- 08** Centralized Database(LAN)
- 09** Result
- 10** Conclusion
- 11** Limitations
- 12** Scope of Project
- 13** References



Problem Statement

- Effective mentorship plays a **crucial role** in shaping students' academic journey and personal growth
- Aim to enhance the process through the implementation of an Online Student Mentor Management System.
- College employs a manual and fragmented approach to mentor-student interactions, **leading to miscommunication**, missed opportunities, and a lack of comprehensive tracking.
- Addressing challenges to develop a **centralized digital platform** that facilitates seamless communication, efficient scheduling, and comprehensive monitoring of student's activities.





INTRODUCTION

- System is developed using **JSP and Servlet technologies**.
 - **Aims to replace the conventional manual mentor management systems**,
Unlike traditional methods, our Mentor Management System offers real-time monitoring of mentorship activities.
 - Mentors can track **mentee progress, provide timely feedback, and address challenges promptly**.
 - System safeguards **sensitive information**, fostering trust and compliance with data protection regulations.
 - This shift toward a **cost-effective digital solution** can significantly **reduce paperwork**, administrative burden, and associated costs.
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Literature Survey

Feature	Existing Mentor System	Proposed Mentor System
Efficiency	Manual tracking and communication lead to delays and inefficiencies.	Automated processes providing real-time tracking and communication.
User Interface	Often lacks a user-friendly interface, leading to a steep learning curve.	Intuitive and interactive user interface for easy navigation and engagement.
Data Security	Vulnerable to data breaches and lacks robust security measures.	Prioritizes data security and integrity, implementing measures to protect sensitive information.
Scalability	Limited scalability; struggles to accommodate a growing number of users.	Built on JSP and Servlet technologies, ensuring scalability for evolving needs.

Objectives

- To enhance **teacher-student Communication**.
- To keep eye on students **academic and non-academic performance that includes achievements, club and co-curricular activities and so on.**
- To **minimize issues** faced by students mentors and admins.
- To identify and understand each student and **encourage advanced learners.**
- **No time bound**, swift communication during & after college hours .

Technology Stack

Backend

Frontend

Technology

Servlet



Database

MySQL



Build Tool

Maven



Language

Java



Technology

JSP



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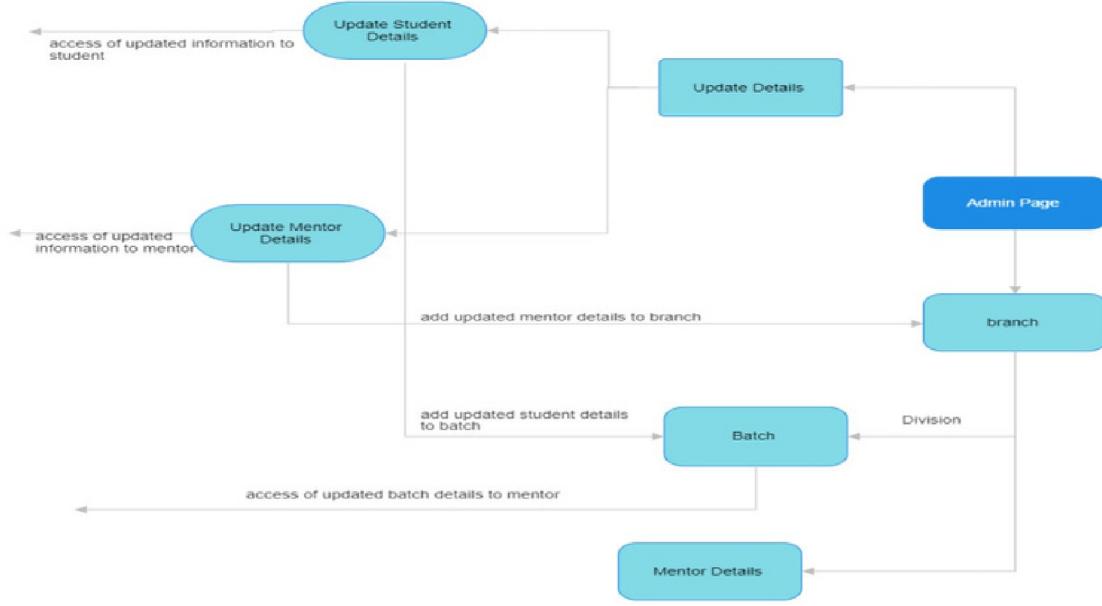
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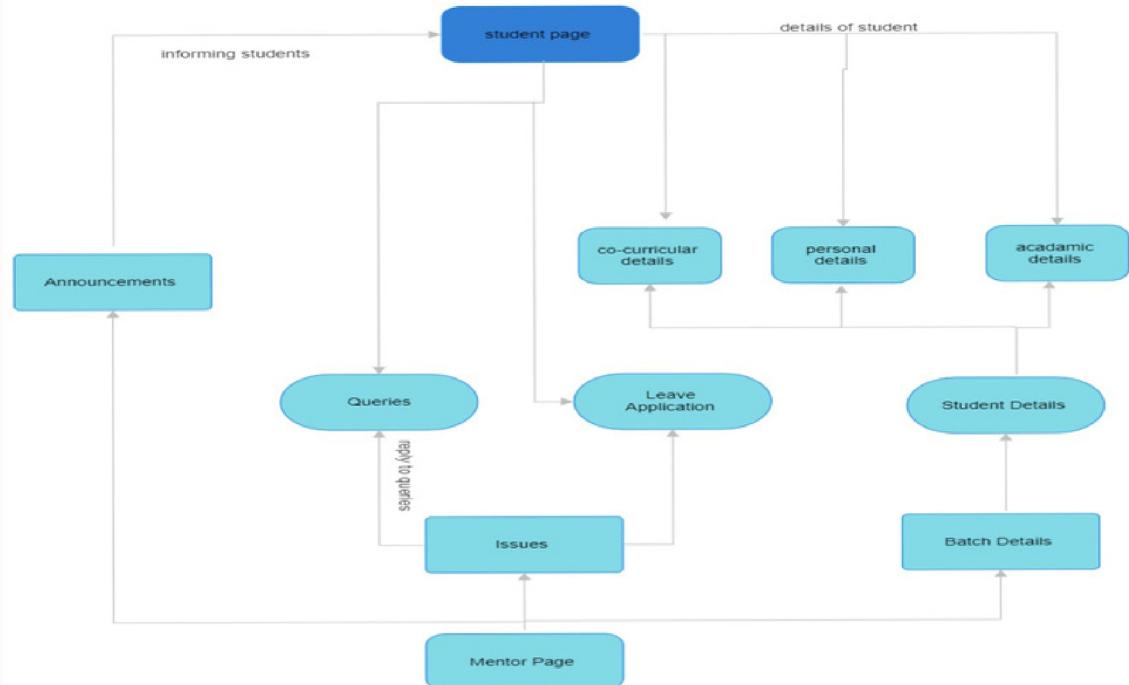
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Data Flow

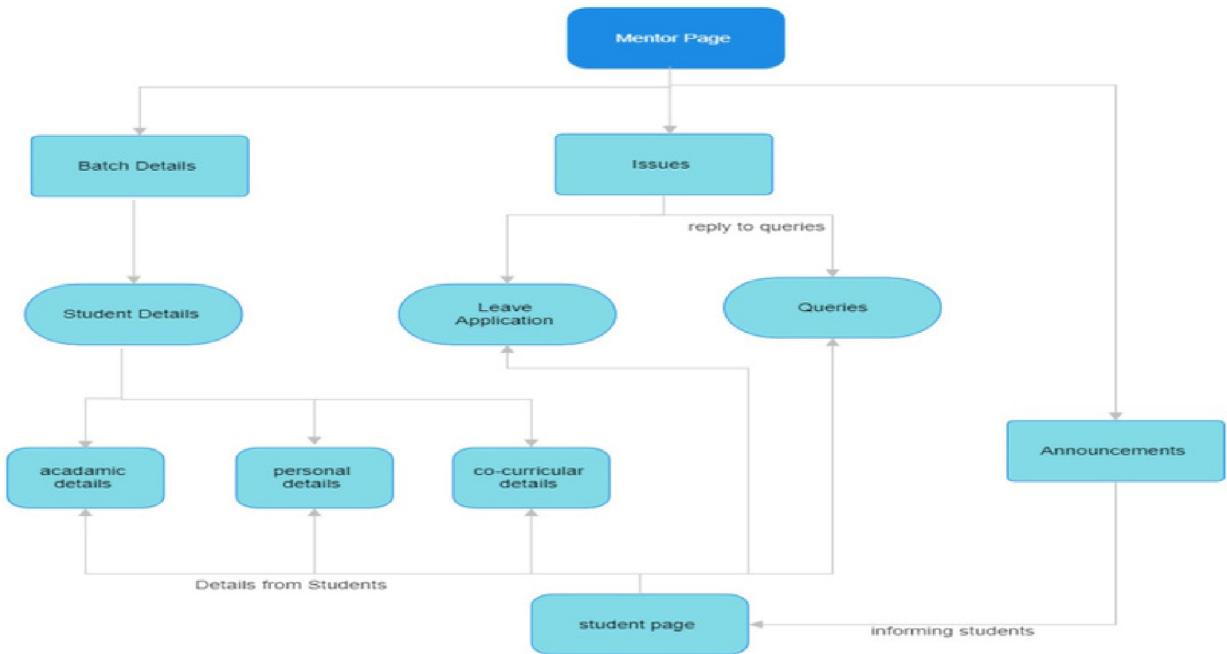
DataFlow Diagram with respect to Admin



data flow diagram with respect to mentee



Data Flow Diagram with respect to Mentor



Specifications

Admin Interface

01

Register /Delete mentor/mentee

02

View list of mentors & mentees

03

Assign mentors to mentees

CUMMINS COLLEGE

Admin

Logout

Home

Contact us

Hello Admin !

ENTC

COMP

IT

MECH

INSTRU

Mentor Interface

01
View Batch of Students &
batch individual profile
of any student registered
under them

02
Viewing queries of mentees

04
Float announcements
to batch

03
View leave applications of
mentees

CUMMINS COLLEGE

 Shreya Umesh Jadhav

 Logout

 Home

 Contact us

Hello Shreya Umesh Jadhav !

[View Batchmates](#)

[Add Queries](#)

[View New Announcements](#)

[View Reply](#)

[View Leave Response](#)

[Apply for leave Application](#)

Mentee Interface

01

View Batchmates & Mentors

02

View new announcements

03

Add queries

04

View Reply

05

View leave response

06

Apply for leave application

07

View leave applications of mentees

CUMMINS COLLEGE

 Shreya Umesh Jadhav

 Logout

 Home

 Contact us

Hello Shreya Umesh Jadhav !

[View Batchmates](#)

[Add Queries](#)

[View New Announcements](#)

[View Reply](#)

[View Leave Response](#)

[Apply for leave Application](#)

Centralized Database (LAN)

- MySQL database is made centralized on one of the PCs in the LAN network by configuring the MySQL workbench as a server.
- Configuring JDBC connectivity string.
- Accessing database from another PC from the same network.

Results

- meticulously measured essential metrics, including system uptime, response time, and user engagement levels
- gained insights into user engagement patterns, system responsiveness, and the efficiency of Admin-related tasks.
- designed tests mimicking real-life situations like scenarios varied in user numbers and tasks to evaluate how our system performed under diverse conditions.
- scrutinized its ability to facilitate smooth communication between mentors and students while emphasizing its speed and responsiveness.

• • • • •

Conclusion

In today's fast-paced educational landscape, effective mentorship plays a crucial role in shaping students' academic journey and personal growth. Hence we recognize the significance of student-mentor interaction and aim to enhance the process through the implementation of a Mentor Management System.

Currently, the college employs a manual and fragmented approach to mentor-student interactions, which often leads to miscommunication, missed opportunities, and a lack of comprehensive tracking. To address these challenges, we intend to develop a centralized digital platform that facilitates seamless communication, efficient scheduling, and comprehensive monitoring of student's activities.

Limitations

1

Scalability Challenges:

Scaling the system to accommodate a growing number of users or data might pose challenges.

The system may require adjustments or enhancements to handle increased loads efficiently.

2

Dependency on Local IT Support:

The system's maintenance and troubleshooting may rely heavily on local IT support.

This can lead to delays in addressing issues and may require on-site assistance.

localhost:8080/Mms_App/view_details.jsp?cno=C22020111289

Student's Family income:**500000**

Co-curricular Details

Student's Hobbies :**Reading**

Student's Achievements: [dance_certificate.jpg](#)



PROJECT SCOPE

- 1] Hosting of project.
- 2] E-mail Authentication.
- 3] Addition of other branches.
- 4] Special feature for first year students.

References

- [1] Susamma Barua, Teachers Assistant: A Web-based Application using Java Sever Pages and Java Database Connectivity, 2000.
- [2] Waltz, D.L,"An English Language Questioin Answering System for a Large Relational Database", Communication of th ACM, 21.
- [3] The Apache Software Foundation. The Number One HTTP Server an the Internet .<http://httpd.apache.org/>. [10] LIU Bu-xing. JSP dynamic design of garbage characters in Chinese solution [J]. Power Vocational and Technical Jour-nals, 2009
- [4]Budi .K. (2015), “The Servlet API”,Servlet & JSP: A Tutorial, Second Editionthis book helped to clear the topic related to servlet API's which supports session management



THANK YOU

