

LAB MANAGEMENT SYSTEM

PPT(IDEA PITCH):

TEAM 07

TEAM MEMBERS:

- 1.SHIVANESH P (268)
- 2.SHUBADHARSHAN RN (274)
- 3.SIVATHANU KP (280)
- 4.SRI KIRUPA P (286)
- 5.SUPRITHA S (292)
- 6.SWETHA S (298)

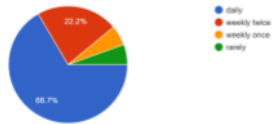
Problem Statement

Our lab management system addresses challenges such as decreased productivity among students, time-consuming manual processes, errors and stress.

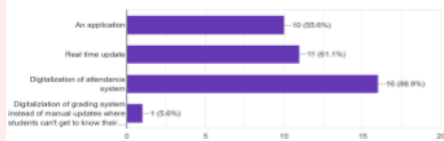


DATA

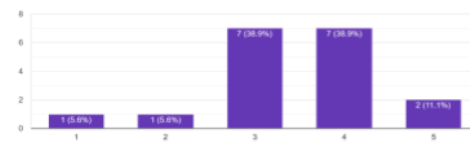
How frequently do you use lab for your coursework ?
18 responses



Are there any additional features you would like to see in lab management system to enhance your experience?
18 responses



How much would you rate the current lab management system?
18 responses



Do you think automated lab management would be efficient?
18 responses



**So what 's
the solution?**

LAB MANAGEMENT SYSTEM



Lab Management

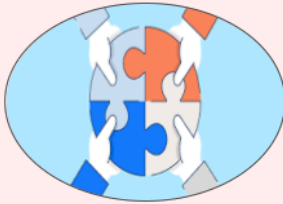
Transforming Lab Management: From
Effortful to Effortless Efficiency



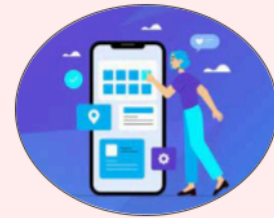
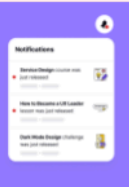
Features



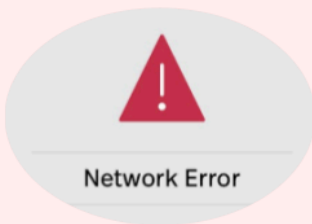
- Centralized Data Management
- User Interface (Application)
- User Access Control
- Resource Allocation
- Real-time Updates



Notifications
to keep you in
the loop



Constraints



- Unreliable Network Connectivity
- Individual User Behaviour
- Natural Disaster and Emergencies





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LAB MANAGEMENT SYSTEM
A comprehensive lab management system designed to streamline the process of managing laboratory resources efficiently. Developed by a dedicated team of six professionals utilizing Azure DevOps, this...

Organization settings
<https://dev.azure.com/220701286>

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Board Analytics View as Backlog

Features

New Active 2/5 Resolved 1/5 Closed

New item

25 User Interface Design
Supritha S
State New
0/1

21 Database Setup
Sri Kirupa P
State New
1/3

29 Inventory Management
Shivanes
State New

27 Experiment Management
Supritha S
State Active
0/1

33 User Authentication
Sri Kirupa P
State Active
1/2

36 Notifications
Sri Kirupa P
State Resolved
0/1

31 Reporting and Analytics
Sri Kirupa P
State Closed
1/1

38 Collaboration Tools
State Closed
0/1

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Stories

New Active 3/5 Resolved 2/5 Closed

New item

39 As a lab team member, I want to collaborate with other team members in real-time through integrated messaging or communication features within the application.
Sri Kirupa P
State New

23 As a lab user, I want to access and update lab data from a centralized dashboard, providing a comprehensive view of lab activities.
Swetha Sakthivelan
State New

26 As a lab user, I want to access the lab management application

28 As a Student, I want to schedule, track, and manage experiments within the lab management application.
Sri Kirupa P
State Active
0/1

22 As a system administrator, I want to configure and set up a centralized database to store all lab-related data securely.
220701274@rajalakshm...
State Active

37 As a lab user, I want to receive real-time notifications and alerts for important updates or events so that I can be more productive.

35 As a system administrator, I want to define user roles and permissions to control access to different features and data within the application.
Swetha Sakthivelan
State Resolved

30 As a lab technician, I want to track and manage lab inventory (e.g., hardware, software) within the application.
Sri Kirupa P
State Resolved
0/3

24 As a lab manager, I want to define access controls to ensure that only authorized personnel can view or modify sensitive lab data, like experimental results.
Shivanes
State Closed

34 As a lab user, I want to log in securely to the lab management system using my credentials.
Swetha Sakthivelan
State Closed

32 As a faculty, I want to generate reports and analyse the student performance data to gain insights.
Sivathanu Kp

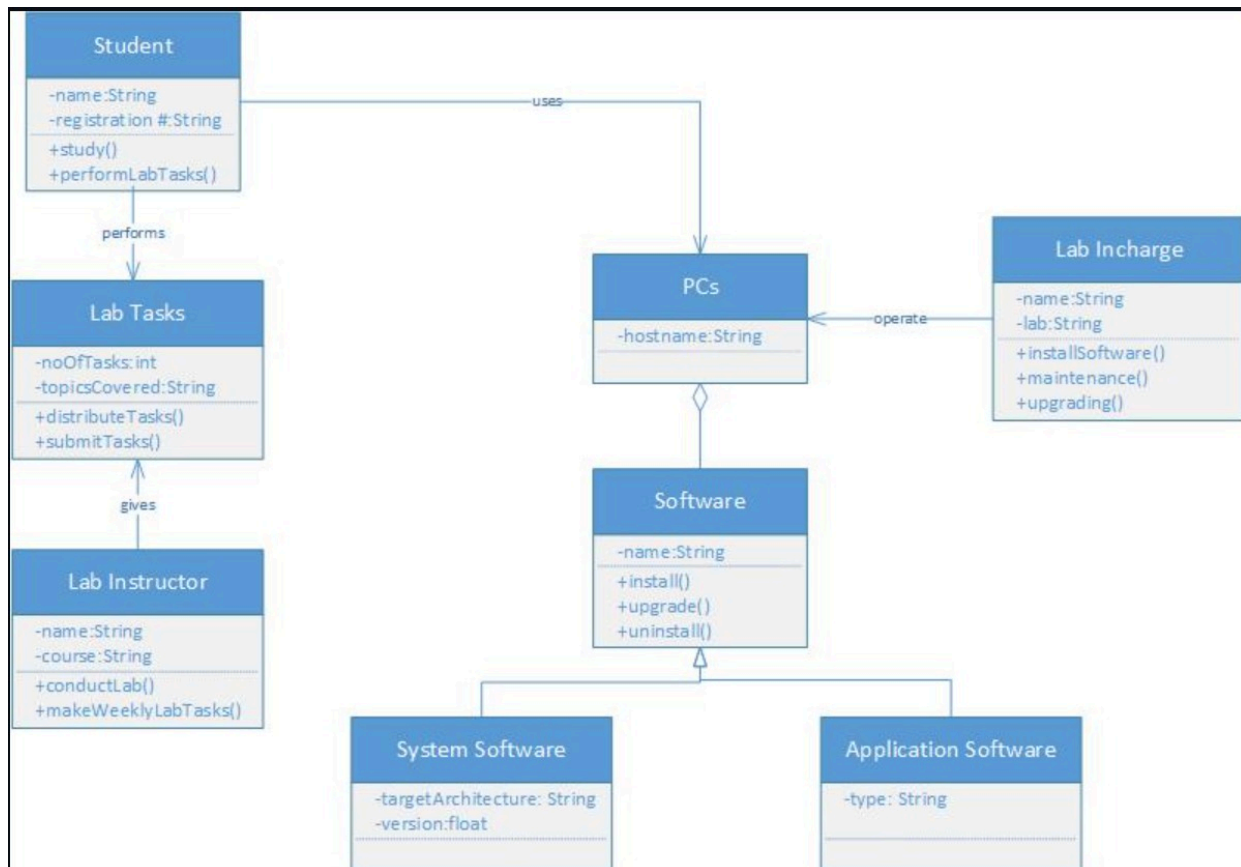
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LAB MANAGEMENT SYSTEM Team

Backlog Analytics + New Work Item View as Board Column Options

Order	Work Item Type	Title	State	Effort	Busin...	Value Area	Tags
1	Epic	User Access Control	Resolved			Business	
	Feature	User Authentication	Active			Business	
	User Story	As a lab user, I want to log in securely to the lab mana...	Closed			Business	
	User Story	As a system administrator, I want to define user roles a...	Resolved			Business	
2	Epic	Centralized Data Management	Resolved			Business	
	Feature	Database Setup	New			Business	
	User Story	As a system administrator, I want to configure and set ...	Active			Business	
	User Story	As a lab user, I want to access and update lab data fro...	New			Business	
	User Story	As a lab manager, I want to define access controls to e...	Closed			Business	
3	Epic	Real time Updates	New			Business	
	Feature	Notifications	Resolved			Business	
	User Story	As a lab user, I want to receive real-time notifications a...	Active			Business	
	Task	UI Mockup Creation	Active				
	Feature	Collaboration Tools	Closed			Business	

CLASS DIAGRAM:



SEQUENCE DIAGRAM:

