



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

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Software Requirement Specification for Faculty Work Log STAGE 1

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ROLL NO	7376221BM123
PROJECT ID	19
PROBLEM STATEMENT	FACULTY WORK LOG
SEAT NUMBER	112

Problem Statement

Managing and tracking faculty work logs in educational institutions is a critical task for maintaining organizational efficiency and ensuring accountability. Traditional methods, such as paper logs or disparate digital systems, often lead to inefficiencies, data inaccuracies, and lack of real-time tracking. There is a need for a robust, scalable, and user-friendly system to streamline the management of faculty work logs, providing real-time access to data, and enhancing overall productivity.

Purpose

The purpose of this project is to develop a Faculty Work Log software application using the MERN (MongoDB, Express.js, React, Node.js) stack. This application aims to simplify the logging process for faculty members, improve administrative oversight, and ensure secure and efficient data management. The system will provide different access levels for faculty, admin, and super admin, ensuring appropriate access controls and data privacy.

Scope

The scope of this project includes:

- Developing a secure and scalable web application using the MERN stack.
- Implementing three user roles: Faculty, Admin, and Super Admin, each with specific functionalities and access controls.
- Creating a user-friendly interface for logging and tracking faculty activities.
- Ensuring the application is responsive and accessible on various devices.
- Incorporating security best practices to protect sensitive data.

Business Context

Educational institutions need efficient systems to manage and monitor faculty activities to ensure compliance with institutional policies and enhance productivity. By adopting a digital solution for work log management, institutions can streamline processes, reduce administrative burdens, and improve data accuracy. This system will also facilitate better decision-making by providing real-time insights into faculty activities and performance.

User Performance

Faculty: Faculty members will be able to log their daily activities quickly and efficiently. They will have access to their own work logs and can generate reports on their activities.

Admin: Admin users will manage faculty profiles, review work logs, and generate detailed reports. They will have access to data analytics to monitor faculty performance and ensure compliance with institutional policies.

Super Admin: Super Admin users will have the highest level of access, including the ability to manage admin users, configure system settings, and oversee the entire system's operation. They will also have access to comprehensive reports and data analytics.

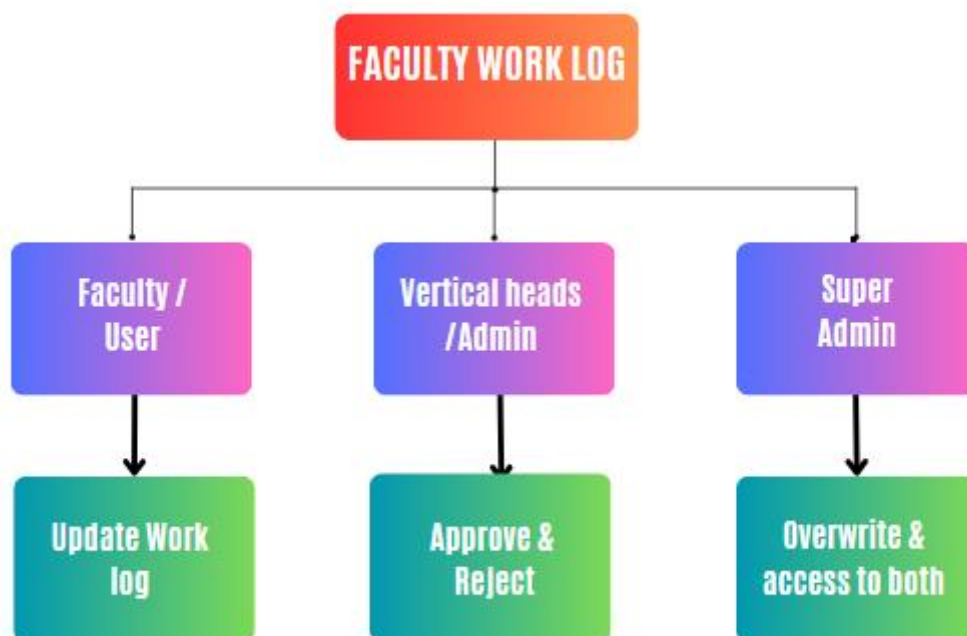
Dependencies

- Access to data sources such as working log credentials of faculty.
- Systems for user authentication to ensure access to the dashboard

Mongo DB	Database
Express js	Backend
React js	Frontend
Node js	Runtime environment

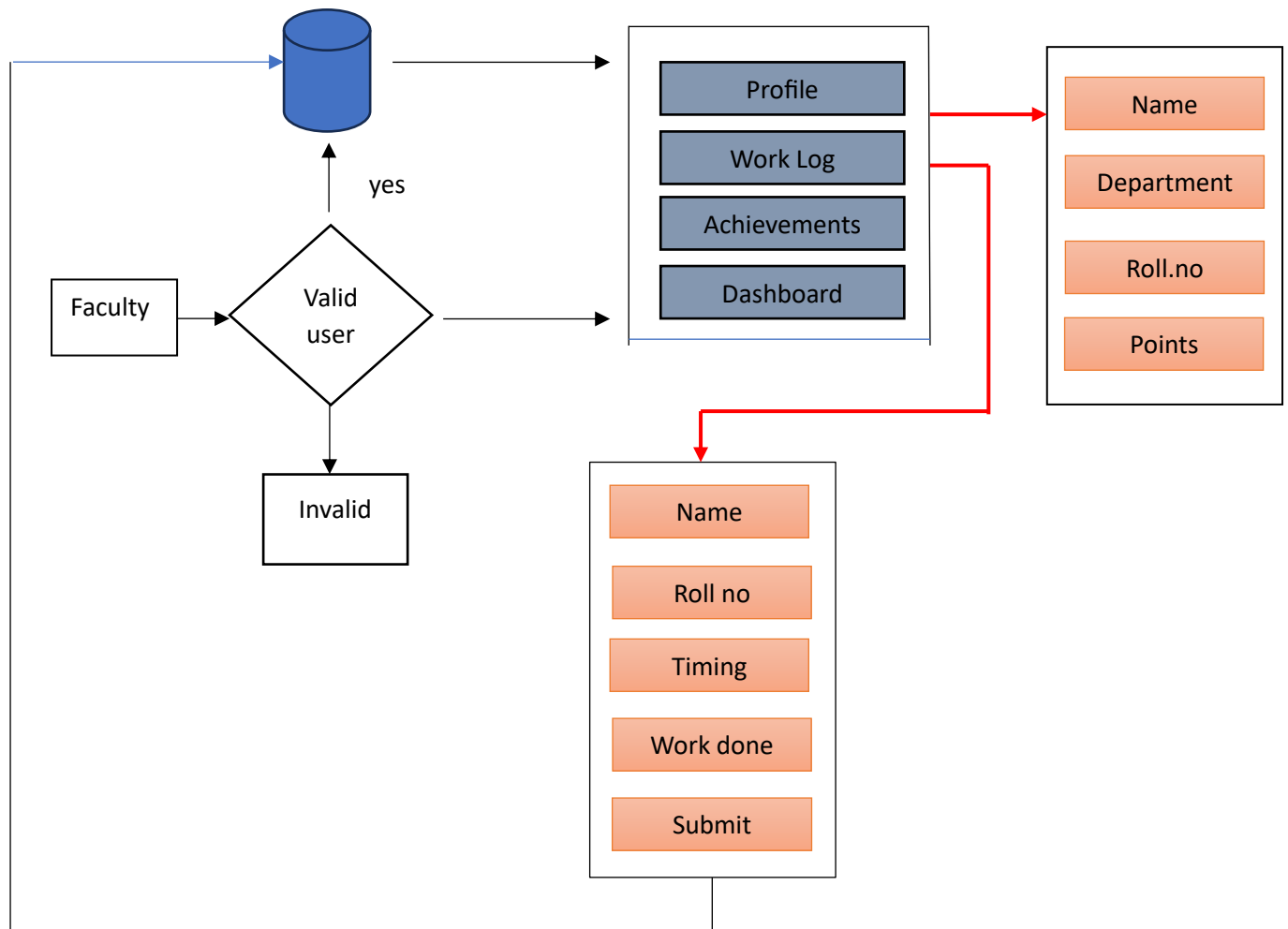
Functional requirements

- **Data integration and real time updates:** Aggregate data from the excel sheet and ensure data accuracy and provide real time updates to reflect the latest Faculty performance information.
- **User interface and customization:** Allow customizable dashboard views tailored to different user admin, super admin and faculty.
- **Analytica and insights:** To crosscheck work log of faculties by admin.
- **Security and compliance:** Implement secure user authentication and role-based access control to manage permissions.
- **Reporting and integration:** Allow users to generate and customize reports and enable data export in excel format.

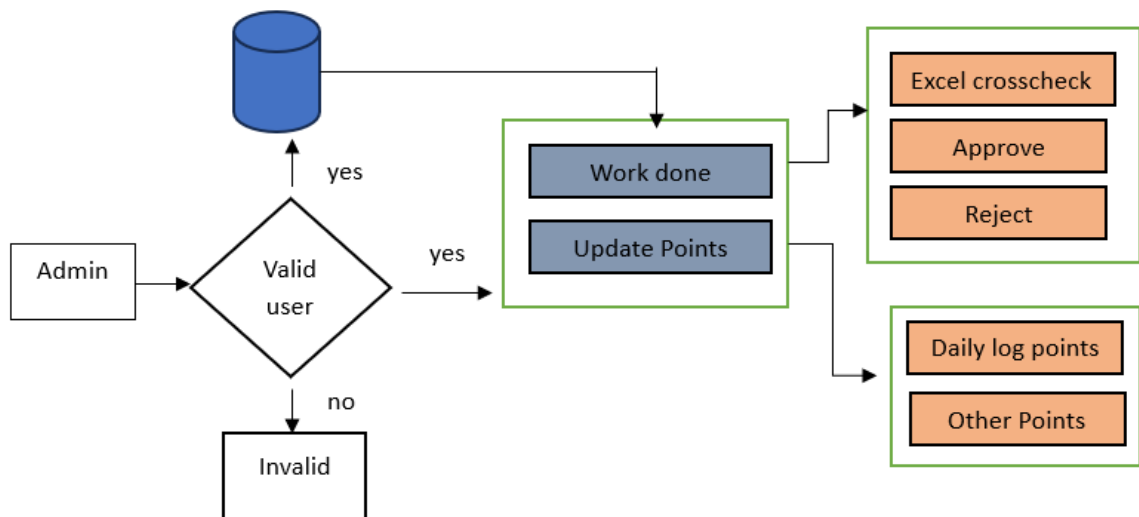


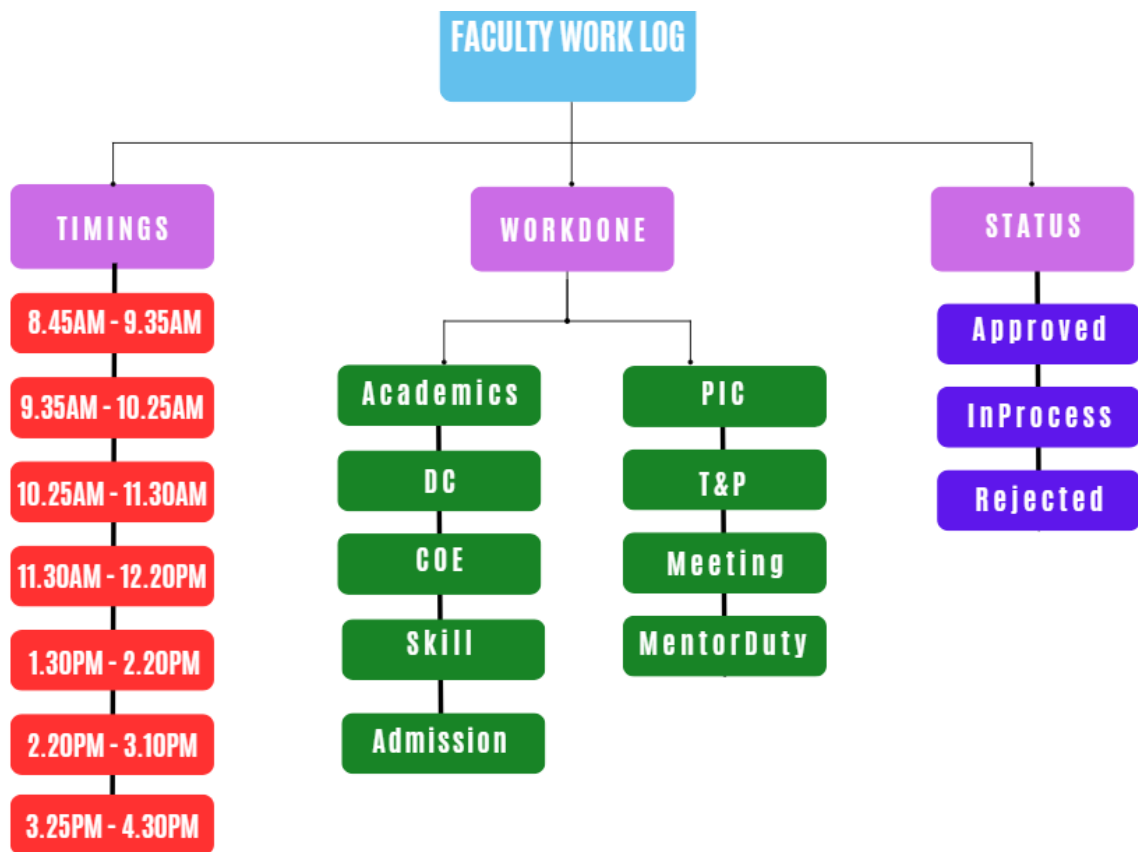
Overall project idea

FACULTY:

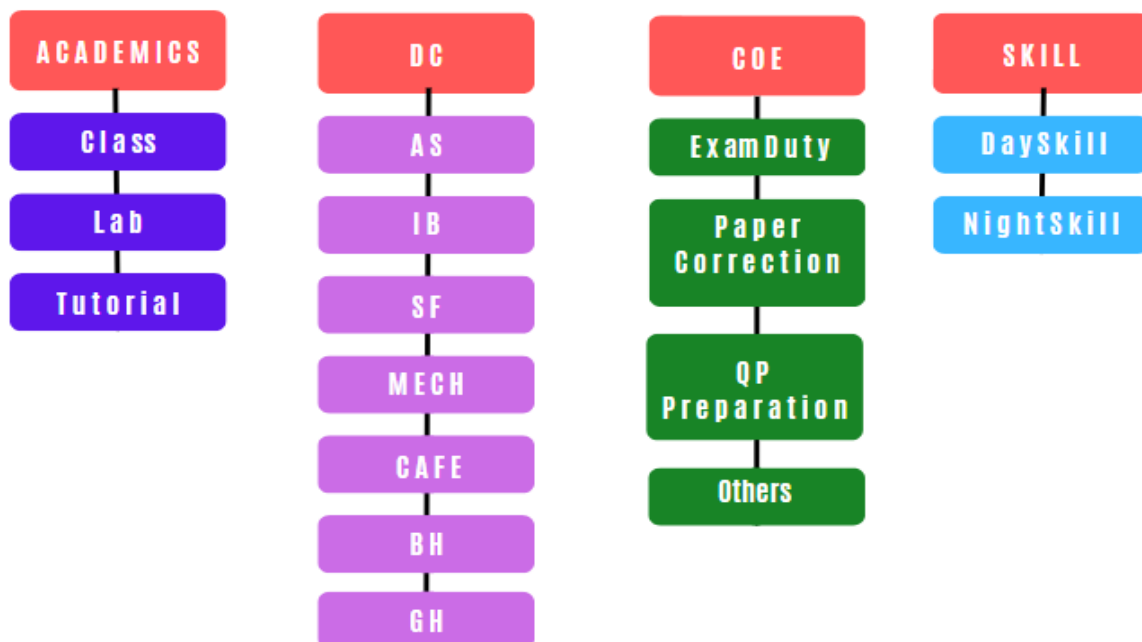


ADMIN:

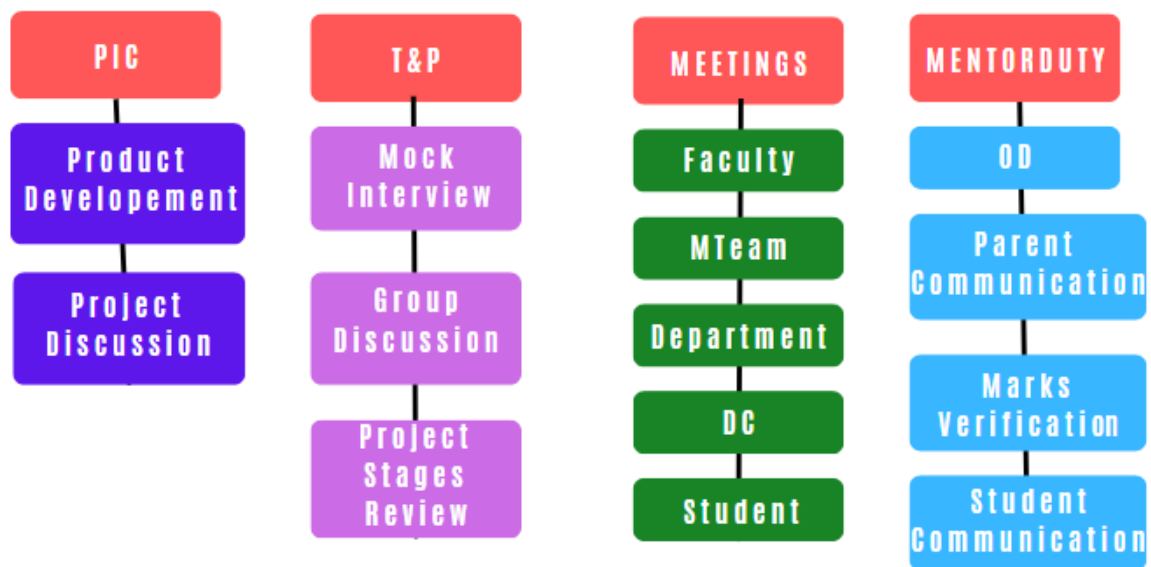




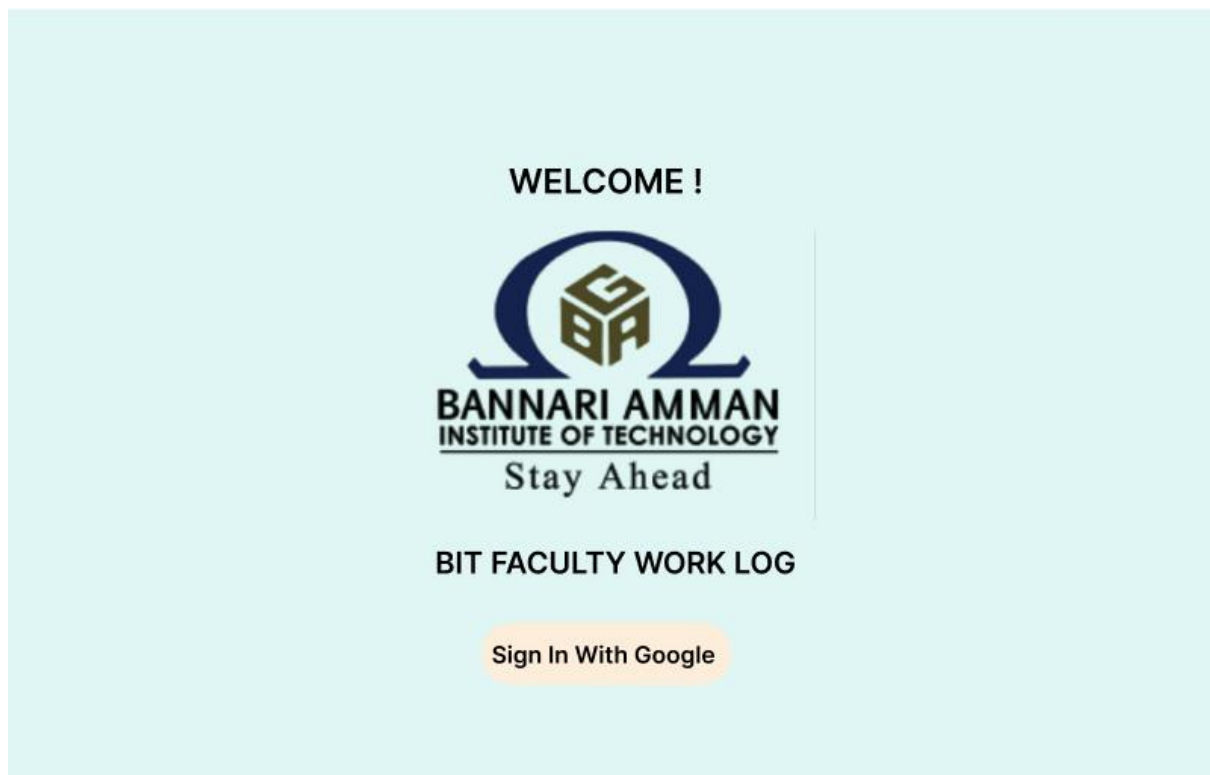
Sub divisions of Timings, work done and status



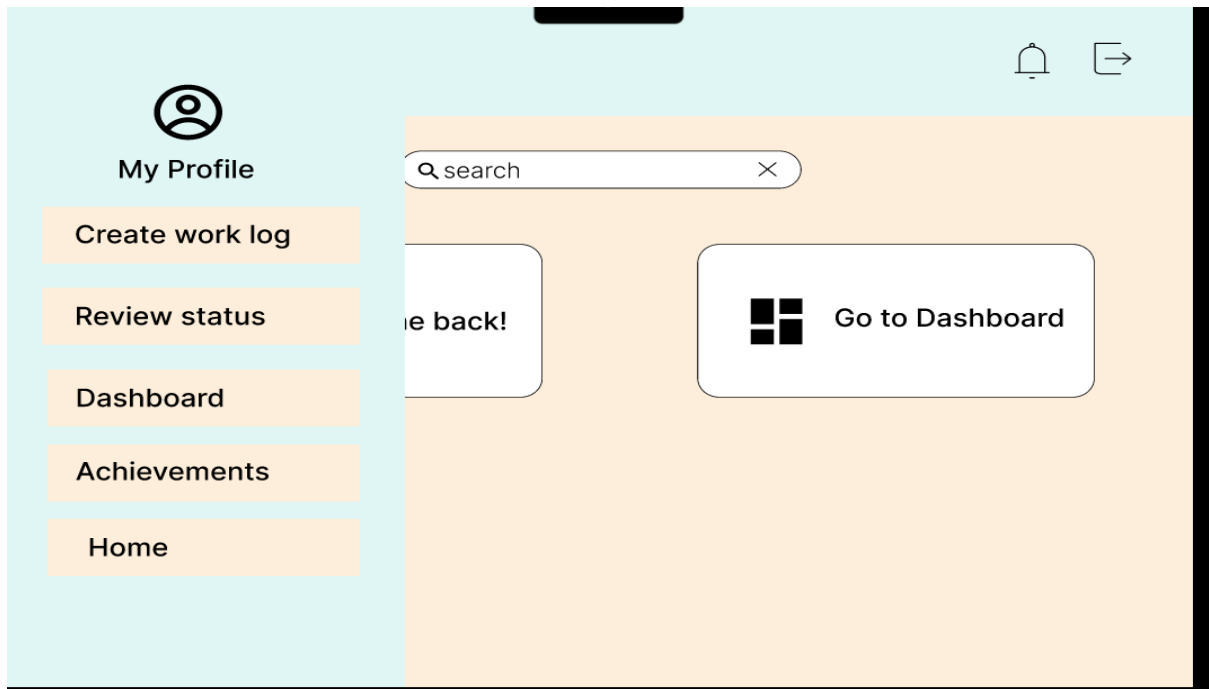
Further Sub divisions of work done (1)



Further Sub divisions of work done (2)



Log In page in Figma



Main Page in Figma

The mockup shows a mobile application interface for creating a work log. The top header is light blue with the text "BIT faculty work log" on the left and a bell icon and a share icon on the right. Below the header is a light blue sidebar with a hamburger menu icon and the text "Create Work log". The main content area has a light orange background. It contains a form with six input fields, each with a label in a white button: "Name", "ID", "Timing", "Work done", "Description", and "Date". The corresponding input fields are: "Enter your name", "Enter your ID", a dropdown menu with "Select", another dropdown menu with "Select", "Enter your work description", and "Enter date". At the bottom right of the form is a white button with the text "Submit".

Work log page in Figma

BIT faculty work log



Timing	Work done	Description	Status	Reason
8.45am-9.35am	Academics	M2 Class for S2 BME	✅ Approved	----
9.35am-10.25am	PIC	Mini Project Discussion	✅ Approved	----
10.25am-11.30am	DC duty	Duty at AS first floor	❌ Rejected	Duty scheduled at IB
11.30am-12.20pm	Academics	M4 tutorial for S4 CSE	✅ Approved	----
1.30pm-2.20pm	COE	S4 grade sheet evaluation	⏸ Pending	No update yet
2.20pm-3.30pm	PIC	Project confirmation	✅ Approved	----

Status page in Figma

Dashboard



et:profile...
Mr. John
ID:7834
Assistant professor II
Department of CSE

Attendance Percentage :

100%

Overall Performance



Daily log points

09.10.2024	100
08.10.2024	100
07.10.2024	100
06.10.2024	100
05.10.2024	100

Approved Daily Work logs

3.30pm-4.30pm	Academics	M4 class for S4 CSE
2.30pm-3.30pm	PIC	Project Discussion
12.30pm-1.30pm	COE	Grade sheet evaluation

Rejected Daily Work logs

10.30am-11.30am	DC duty	Duty at AS first floor
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Achievements

No entries made Yet

Dashboard page in Figma