



# DESIGN THINKING FOR DATA-DRIVEN APP DEVELOPMENT

## MILESTONE 1

### TEAM 15

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# PROPOSAL

## **Concept:**

Our project focuses on developing a Learning Management System (LMS) tailored for educational institutions, aimed at enhancing the communication and management capabilities of school principals, teachers, clerks, and students. This platform will allow principals to manage staff efficiently, teachers to assign and track student work, and students to engage with their schoolwork and teachers seamlessly. The LMS will centralize these operations, reducing administrative burdens and improving educational outcomes.

## **Methodology:**

We will use the Design Thinking framework, particularly focusing on the Empathize and Define stages for Milestone 1. This will involve empathy interviews with each user persona (principal, teacher, clerk, and student) to understand their challenges and needs. By creating detailed user personas and mapping their journey through the LMS, we will identify critical pain points and develop a solution that addresses these issues.

Our design will focus on building an intuitive and efficient platform that simplifies the workload of administrators and educators while enhancing the educational experience for students. The user-centered design approach will guide our interviews and help us refine the system based on real-world user experiences.

## **Goal:**

The primary goal is to create a comprehensive LMS that facilitates smooth management of school operations, including staff management, student progress tracking, communication, and administrative tasks. Our objective is to reduce manual processes and paperwork, providing an easy-to-use platform for managing school activities. Ultimately, the LMS will improve the efficiency of academic operations and ensure a better learning environment for students.

# SCOPE

## **Direction:**

This project will focus on delivering an MVP (Minimal Viable Product) of an LMS tailored for schools. The MVP will include key features such as:

- Staff management and attendance tracking for the principal.
- Assignment and grading management for teachers.
- Student attendance and assignment tracking.
- Simplified communication tools between teachers, students, and administrators.

The system will be scalable and adaptable to both small and large educational institutions. The scope for this phase is research-focused, with the aim of understanding key user requirements and identifying common pain points.

By the end of Milestone 1, we will have completed in-depth empathy interviews with each of our four user personas, synthesized the findings, and established clear requirements that will shape the design of the platform.

**Aim:**

Primary Users: School principals, teachers, administrative staff (clerks), and students.

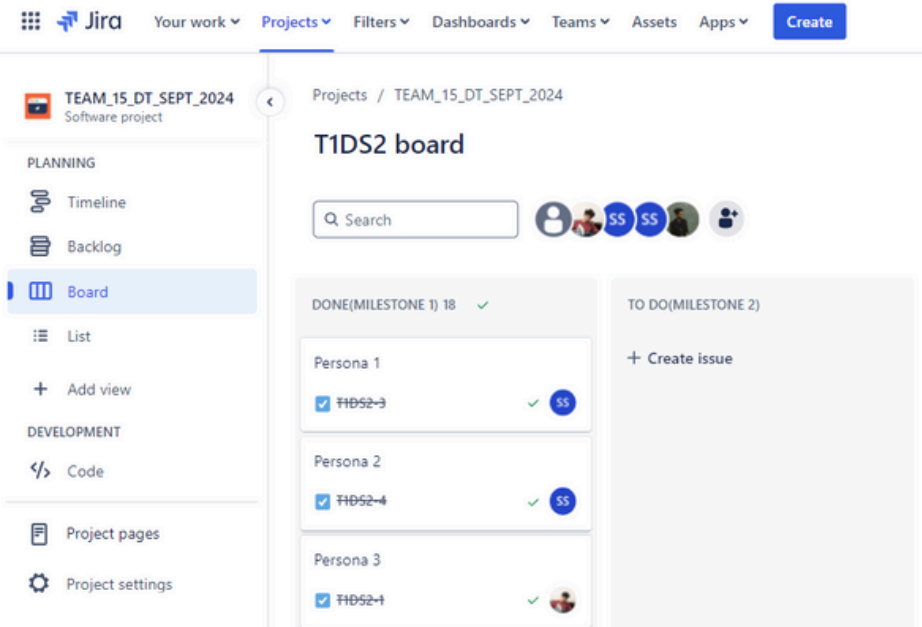
Key Features to Explore:

- Staff and student attendance tracking: A centralized system for tracking attendance and managing leave requests.
- Assignment management: Tools for teachers to upload, assign, and grade assignments while allowing students to submit their work digitally.
- Effective communication: A built-in chat feature for students to clarify doubts and for teachers to send notices or updates.
- Administrative tools for clerks: Simplified management of attendance records and leave approvals.

# WORK BREAKDOWN STRUCTURE

S. No.	Task	Assigned To	Assigned By	Due Date
1	Define the Situation	Satish	Prem	04/10/2024
2	Create Persona	Everyone	Satish	08/10/2024
3	Conduct Customer Interviews	Everyone	Prem	11/10/2024
4	Create User Journey Map	Prem	Satish	12/10/2024
5	Identify Pain Points & Create HMWs	Srishti, Shrirang	Satish	13/10/2024
6	Create Document	Everyone	Prem	14/10/2024

# JIRA BOARD





# THANK YOU!

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SUBMITTED BY:

**TEAM 15**

SATISH JAISWAL

PREM KUMAR

SRISHTI SINGH

SHRIRANG SAPATE