Project Design Phase

Proposed Solution Template

Field	Details
Date	21 February 2026
Team ID	LTVIP2026TMIDS47806
Project Name	LearnHub: Your Center for Skill Enhancement
Individual Member	C. Karthik
Maximum Marks	2 Marks

S.No	Parameter	Description
1	Problem Statement (Problem to be solved)	Students struggle to find quality, structured online courses in one place. Teachers lack simple tools to publish and manage content. Admins have no centralized view of platform activity, users, and enrollments.
2	Idea / Solution Description	OLP (Online Learning Platform) is a MERN stack web app where students can browse, enroll in, and complete courses at their own pace. Teachers can publish and manage courses and sections. Admins oversee the full platform through a dedicated control panel.
3	Novelty / Uniqueness	Combines course discovery, self-paced learning with resume-from-checkpoint, certificate generation on completion, and a role-based three-tier architecture — all in one lightweight MERN application.
4	Social Impact / Customer Satisfaction	Democratizes access to education by enabling both free and affordable paid courses. Empowers individual educators to share knowledge without technical barriers. Students gain verifiable certificates improving employability.
5	Business Model (Revenue Model)	Platform earns through a commission model on paid course purchases. Teachers set their own course prices (C_price). Free courses drive user acquisition; paid courses drive revenue.
6	Scalability of the Solution	Built on MongoDB (horizontal scaling), Node.js (non-blocking I/O), and Vite+React (optimized builds). Modular folder structure supports adding new features, user roles, or course types with minimal refactoring.