Project Design Phase
Proposed Solution Template

Date	23 June 2025
Team ID	LTVIP2025TMID54806
Project Name	LearnHub: Your Center For Skill Enhancement
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1. 1.	**Problem Statement (Problem to be solved)**	In many educational and skill-building environments, students face difficulty accessing structured, engaging, and centralized learning resources. Teachers lack an intuitive platform to create and manage courses. Most traditional systems are either manual or disconnected, lacking transparency, progress tracking, and proper learner-educator interaction.
2. 2.	**Idea / Solution Description**	LearnHub is a web-based course creation and enrollment platform that bridges the gap between students and teachers. It allows teachers to create multimedia-rich courses and students to enroll, view, and track their progress. The platform includes role-based dashboards for Teachers and Students, offering a clean and responsive experience built with the MERN stack (MongoDB, Express.js, React.js, Node.js).
3. 3.	**Novelty / Uniqueness**	- Role-based dashboards for tailored user experience - Simple, modern interface using Vite + React - Modular MERN stack architecture ensures scalability and maintainability - Future scope includes live teacher-student chat, mobile app support, certification system, and content analytics
4. 4.	**Social Impact / Customer Satisfaction**	LearnHub enhances access to quality learning by offering a centralized platform for self-paced education. Students benefit from clear course structures and progress tracking, while teachers can easily distribute knowledge. This results in increased student engagement, better skill development, and improved teacher productivity.
5. 5.	**Business Model (Revenue Model)**	Though currently an academic/non-commercial project, LearnHub can adopt the following models: • **SaaS Platform:** Subscription-based access for institutions or training centers • **Course Marketplace:** Allow educators to sell their courses with a revenue share • **Premium Features:** Paid features like certifications, analytics, quiz modules, and LMS integrations
6. 6.	**Scalability of the Solution**	LearnHub follows a scalable three-tier architecture (frontend, backend, database) and is deployable on cloud platforms like Vercel, Render, or AWS. It supports multiple user roles, concurrent sessions, and can be extended with additional features such as mobile app integration, multi-language support, real-time chat, and more.