Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	22 May 2025
Team ID	LTVIP2025TMID52020
Project Name	LearnHub: Your Center for Skill Enhancement
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Example: Order processing during pandemics for offline mode

Reference: https://www.coursera.org

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Responsive UI for learners and instructors	React.js, HTML, CSS
2.	Application Logic-1	User Authentication and Authorization like signup, login	Node js, Express js
3.	Application Logic-2	Course Management like create, edit, delete	Node js, Express js
4.	Database	Stores users, course content, progress data	MongoDB

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Full-stack JavaScript frameworks	React.js, Node.js, Express.js
2.	Scalable Architecture	MERN-based scalable RESTful architecture	Microservices, REST APIs
3.	Secure Authentication	Secure login with email/password & social logins	Firebase Authentication
4.	Cloud Storage	Secure file storage and retrieval	AWS S3

References:

React.js Documentation

Node js Best Practice

https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d