

### **Annexure I (For Project Proposal for BEE)**

1. **Project Statement:-** In this project, we will develop a comprehensive online learning platform named LearnHub, with the following features:

- Multi-role user system (Normal User, Publisher)
- Course creation and management by publishers
- Course enrollment and progress tracking for users
- User-specific dashboards and controls
- Rating and review system for courses
- Payment gateway integration for course purchases

2. **Approximate duration (in hours) to complete the project:**

Month One (August):

- (1-2 week) Frontend Design and User Interface
- (3-4 week) User Authentication and Role-based Access Control

Month Two (September):

- (1-2 week) Normal User Dashboard and Functionality
- (3-4 week) Publisher Dashboard and Functionality

Month Three (October):

- (1-2 week) Course Creation and Management System
- (3-4 week) Enrollment and Progress Tracking System

Month Four (November):

- (1-2 Week) Rating and Review System
- (3-4 week) Payment Gateway Integration and Final Integration

3. **Proposed Project In charge:** Preenu Mittan

4. **Team Members along with roll no's:**

1. Baibhav Kumar – 2210991433
2. Azimusshan Khan – 2210991432
3. Gaurang Batra – 2210991456

5. **Check Points:**

1. Does the project statement result in a product? Yes, a web-based online learning platform.
2. If it is a product, can a prototype be made? Yes, a functional prototype can be made.
3. Does the project statement use multiple concepts to achieve the outcome? Yes.
4. Does it have enough for our team members to do a sufficient amount of work? Yes

## 6. Technical Nodes

Subject / Area / Topic	Technical Nodes
Frontend Development	React, Api , HTML, CSS, JavaScript, tailwind
Backend Development	Node.js, Express.js, API creation, Authentication, clerk, stripe
Database Management	MongoDB, Mongoose
Maps Integration	Leaflet Library
UI/UX Design	Figma Responsive Design
Deployment	Vercel/aws lambda

## 7. Prerequisites (in terms of knowledge, concepts and material) for doing the Project:

Complete knowledge of MERN stack that includes React for frontend, Express, Node.js for Backend, and MongoDB for storing the data.

## 8. Material That May Be Required to Make the Project and Where It Might Be Available:

- Development Tools and So ware: VS Code, Postman
- Programming Libraries and Frameworks: Next.js, Node.js, Express.js, Mongoose
- APIs and Services: JWT for authentication, payment gateways (e.g., Stripe)
- Hosting and Deployment Platforms: Vercel, AWS Lambda

## 9. What Could Be the Total Cost of the Project? [To be estimated based on hosting and any paid services required]

## 10. Resources Available to Us:

- Technical Infrastructure: Personal computers, internet connection
- Version Control: GitHub
- Design Tools: Figma (free er)
- Hosting: Vercel (free er), AWS Lambda (paid er)
- Development Environment: Local development servers



