**Project Requirement**

Project Name: Bdcalling Academy

Project Category: Learning Management System

Objective: Bdcalling Academy is a course management system website where students can register and enroll in a course. Teachers can update and upload different courses with modules.

**Technology and Stacks**

**Frontend Design:** HTML, CSS, Tailwind

**Frontend Development:** Javascript (React)

**Backend Development:** NodeJS, ExpressJS

**Database:** Mongodb

**Security & Auth:** JWT

**Deployment**: Vercel, Netlify

This website has 3 types of users.

* Students
* Teacher
* Admin

**Roll base access**

* **Students** 
  1. Students can register
  2. Student can access their Personal information
  3. Student can update some field of Personal information
  4. Student view course details
  5. Students Can download course module
  6. Student can enroll courses
  7. Student Can access all notice and class materials
* **Teacher** 
  1. Teacher can register
  2. Teacher can access their Personal information
  3. Teacher can update some field of Personal information
  4. Teacher view and update course details
  5. Teacher Can update course module
  6. Teacher Can provide class notice and class materials
* **Admin** 
  1. Admin can register
  2. Admin can access their Personal information
  3. Admin can Manage all student and teacher information
  4. Admin Can upload Course
  5. Admin can convert user into teacher
  6. Admin can approved teacher request
  7. Admin can access all notice module course data

**Data Modeling and data type**

* **User:**

1. id*:* string;
2. name*:* string;
3. email*:* string;
4. password*:* string;
5. role*:* "student" *|* "teacher" *|* "admin";
6. phone*:* string;
7. location*:* string;
8. EmergencyNumber*:* string;
9. GuardianName*:* string;
10. guardianRelation*:* string;
11. GuardianNumber*:* string;
12. enrollCourse *:* Course;
13. isActive*:* boolean;

* **Category**

1. id*:* string;
2. title*:* string;
3. description*:* string;
4. icon*:* string;

* **Course**

1. id*:* string;
2. title*:* string;
3. description*:* string;
4. image*:* string;
5. duration*:*string
6. lectureCount*:*number
7. projectCount*:*number
8. courseFee*:*number
9. mentor*:*Mentor

* **Mentor**

1. id*:* string;
2. name*:* string;
3. designation*:* string;
4. subject*:* string;
5. experienceCount*:* number;
6. experience*:* string [];

* **Company, Collaboration and MemberOF**

1. id*:* string;
2. image*:* string;
3. type*:* "member" *|* "collaboration" *|* "concern";

* **Seminar & events**

1. id*:* string;
2. title*:* string;
3. mentor*:* Mentor;
4. image*:* string;
5. time*:* string;
6. date*:* string;
7. tag*:* string [];
8. startingIn*:* string;

* **Success Story**
* **Gallery**
* **Certification**