



**COMSATS University Islamabad,
Abbottabad Campus**

Project
(SCOPE DOCUMENT)

for

<AnchorLearn: Education and Career Portal>

Version 1.0

By

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Submitted To

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SOFTWARE DESIGN & ARCHITECTURE

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Introduction

AnchorLearn, a web-based platform intended to provide a seamless transition between learning new skills and applying them in the real-world job market. In today's fast-paced world, individuals require access to both educational content and employment opportunities through a unified system. Traditional platforms either offer online courses or act as job portals without combining both services cohesively. AnchorLearn addresses this gap by offering a user-friendly, scalable, and secure platform where students, educators, HR recruiters, and administrators interact effectively. By streamlining learning with career placement, AnchorLearn aims to enhance employability and professional growth.

Problem Statement

There is a significant gap between learning platforms and job placement services. Existing portals such as Udemy, Coursera, and Indeed operate in isolation, requiring users to switch platforms after course completion to find employment opportunities. This transition is not seamless and often causes delays, misalignment of skills, and frustration among job seekers. Users frequently face difficulties in verifying job postings, assessing career alignment with learned skills, and efficiently managing both learning and employment journeys. Therefore, there is a need for a platform that not only focuses on providing quality education but also helps users directly apply for jobs based on their acquired skills without shifting between multiple services.

Problem Solution for Proposed System

AnchorLearn solves these problems by integrating course enrollment and job placement functionalities within a single platform. Learners can enroll in industry-relevant courses and, upon completion, immediately apply for job openings related to their new skills. The system will verify HR recruiters to ensure job posting authenticity. It will also use smart recommendations to suggest suitable courses and jobs to users. Payment gateways will be securely integrated for paid courses, and user-specific dashboards will track learning and job application progress. This seamless integration of learning and employment will significantly reduce the user's effort and time, providing a comprehensive career development environment.

Related System Analysis/Literature Review

Table 1 Related System Analysis with proposed project solution

Application Name	Weakness	Proposed Project Solution
Coursera	No job placement integration	AnchorLearn provides direct job applications post-course completion
Indeed	No skill-based learning suggestions	AnchorLearn suggests courses based on job trends
LinkedIn Learning	Limited employer verification	AnchorLearn verifies HR professionals and shows job success score

AnchorLearn uniquely merges learning and employment with verified HR functionalities, thus offering a complete career-building portal.

Advantages/Benefits of Proposed System

- Single platform for both learning and career growth.
- Verified HR recruiters and secure job postings.
- Personalized course and job recommendations.
- Secure international payment gateways integration.
- User-friendly dashboards based on user roles.
- Scalability to accommodate a global user base.
- Certification issuance upon course completion.

Scope

AnchorLearn is a web-based application aimed at bridging education and career development. It will support learners in enrolling in skill-based courses and applying for verified jobs on the same platform. Features include course management, job postings by verified HR recruiters, learner progress tracking, online certification, secure payment integration, role-based dashboards, and virtual classrooms for educators. The system will exclude offline classes and direct employment guarantees. It will operate through cloud servers and must comply with international data security standards. Stakeholders include students, educators, HR recruiters, and administrators, ensuring a holistic platform ecosystem.

Modules

Module 1: User Interface Management

Handles all user interactions including login, registration, and dynamic search. Provides dashboards based on user roles (Learner, Educator, HR, Admin) for an enhanced and customized user experience.

Module 2: Course Management System

Allows educators to create courses, upload content, assess learners, and generate certifications. Students can enrol, track progress, and receive completion certificates digitally.

Module 3: Job Placement Portal

Enables HR recruiters to post jobs and students to apply through a streamlined process. The portal also recommends jobs based on users' completed courses and skills.

Module 4: Payment Integration System

Secure international payment gateway integration for course enrolment fees. Supports multiple currencies and provides automatic receipt generation for transactions.

Module 5: Admin Panel

Monitors platform activities, manages users, approves courses, handles security settings, and resolves disputes. Admins can also generate system reports and oversee payment verifications.

System Limitations/Constraints

- Dependency on third-party payment gateways.
- Platform scalability challenges as user base grows.
- Strict compliance with international data protection laws.

Software Process Methodology

Object-Oriented Software Development (OOSD) methodology will be used.

OOSD is chosen because it enables modular design, scalability, easy maintenance, and reuse of components, making it ideal for web-based applications.

Tools and Technologies

Mention all the hardware/software tools and technologies with version number which will be used in implementation of the project. Write about the APIs, language(s), SDK(s) etc. which you will use for implementation.

Example:

Table 2 Tools and Technologies for Proposed Project

Tools And Technologies	Tools	Version	Rationale
	Visual Studio Code	Latest	IDE
	Node.js	Latest	Backend Framework
	React.js	Latest	Frontend Framework
	MS Word	2016	Documentation
	MS Power Point	2016	Presentation
	MySQL	Latest	Database Management
	Azure Cloud	Latest	Hosting and Deployment
	GitHub	Latest	Version Control

Data Gathering Approach

Requirements were gathered through online surveys, interviews with students and professionals, and analysis of existing platforms. Questionnaires were used to validate user expectations and required functionalities.

Concepts

1. **Authentication:-**
Ensures that users (Learners, HR, Educators, and Admins) securely log in and access only authorized sections of the platform.
2. **Payment Gateway:-**
Allows users to pay securely for courses using international payment services, maintaining transaction safety and records.
3. **Career Recommendations:-**
Analyzes user profiles, completed courses, and skills to suggest relevant job opportunities and career paths.
4. **Scalability:-**
Designs the platform to smoothly handle increasing numbers of users, courses, and job postings without affecting performance.

Gantt chart

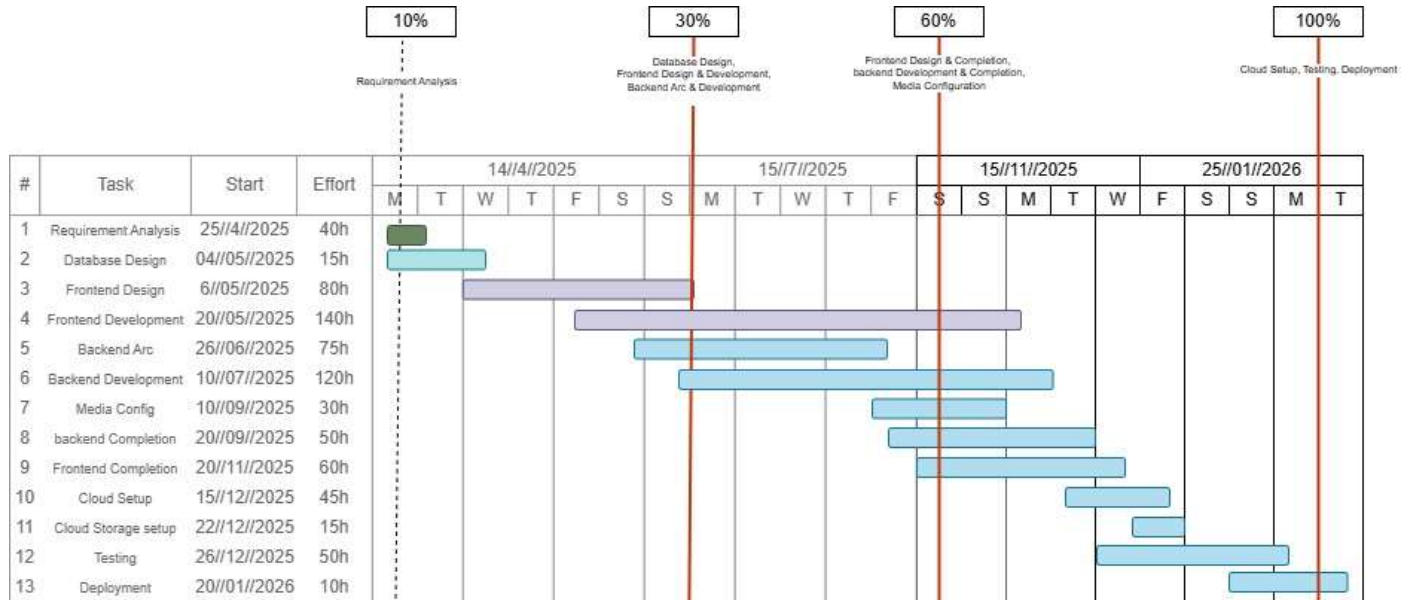


Figure 1 Gantt chart

Mockups



Fig: Home Page

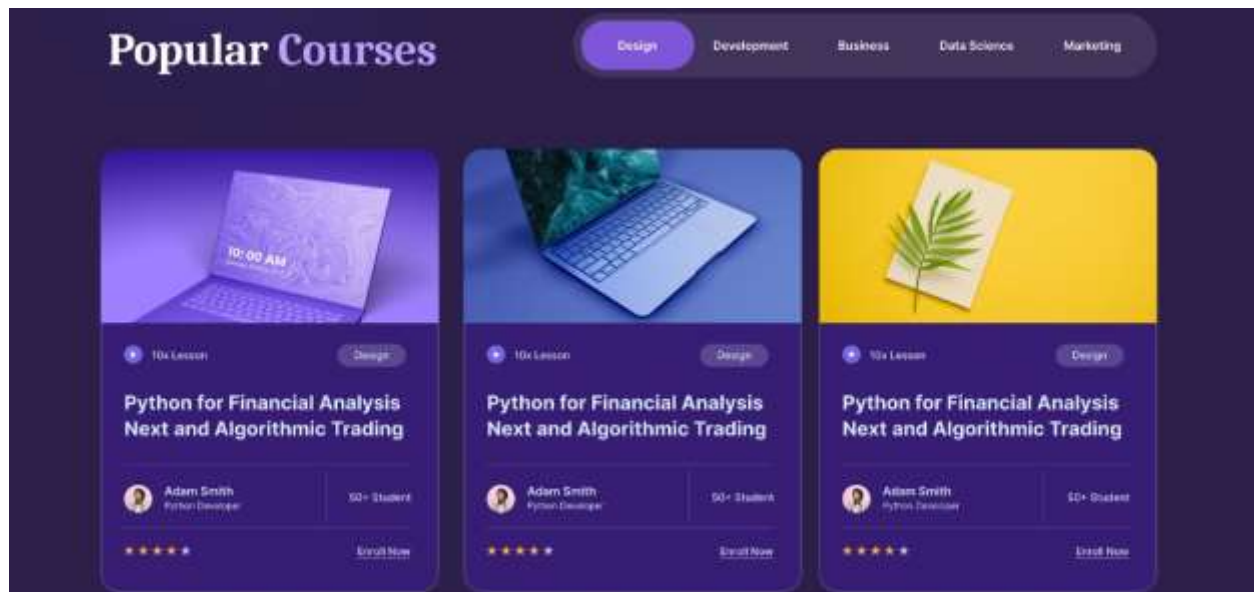
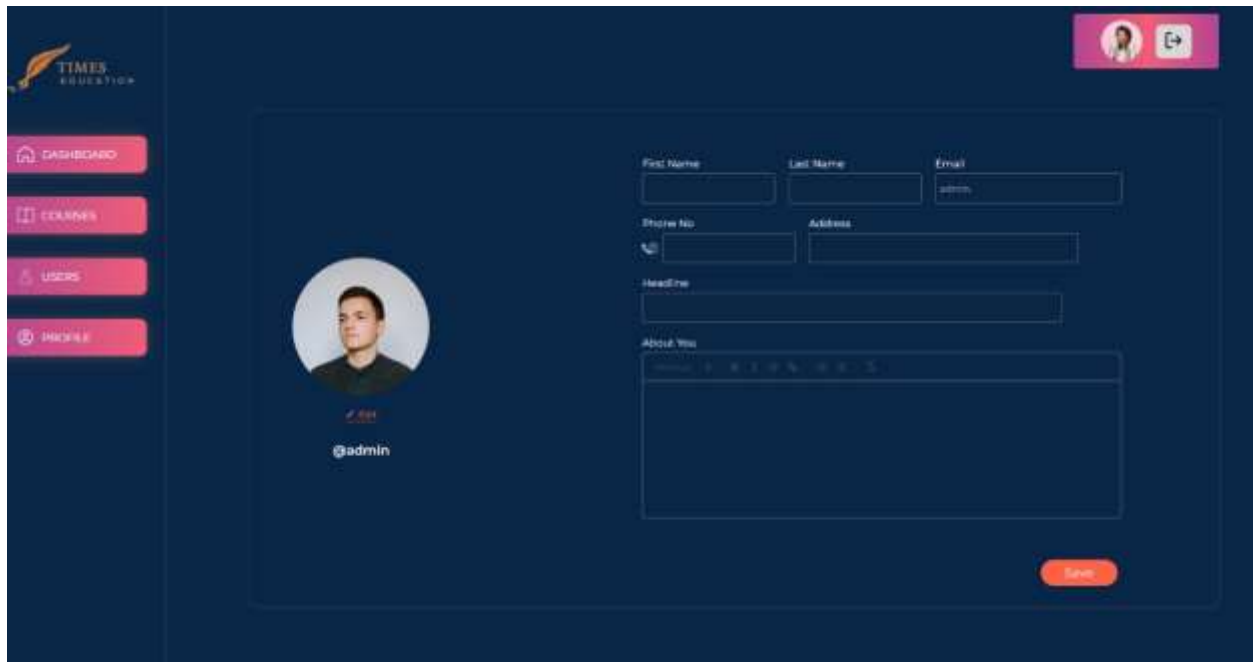


Fig: Courses List

F



The image shows a screenshot of an 'Admin Panel' for 'TIMES EDUCATION'. The interface has a dark blue background with a sidebar on the left containing four menu items: 'DASHBOARD', 'COURSES', 'USERS', and 'SHIGEE'. The main content area features a user profile section on the left with a circular profile picture of a man, a red 'edit' button, and the username '@admin'. To the right is a form for editing user details, including fields for 'First Name', 'Last Name', 'Email', 'Phone No.', and 'Address'. Below these is a 'Headline' field and an 'About You' text area with a rich text editor toolbar. A red 'Save' button is located at the bottom right of the form.

TIMES EDUCATION

ADMIN PANEL

USERS

edit

@admin

First Name

Last Name

Email

Phone No.

Address

Headline

About You

Save

Fig: Admin Panel

Conclusion

AnchorLearn aims to bridge the existing gap between skill acquisition and employment. Through seamless integration of educational and professional development services, the platform will empower users to enhance their careers effectively. The modular and scalable design ensures future expansion possibilities as user needs grow.

References

- [Coursera.org](https://www.coursera.org)
- [Indeed.com](https://www.indeed.com)
- [LinkedIn Learning](https://www.linkedin.com/learning)

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