Training Program Management System

by

Mst. Sumiya Siddika (Exam Roll: 192292)

Md. Shakil Ahmed (Exam Roll: 192330)

Shariful Islam (Exam Roll:192337)

Amit Azim Amit (Exam Roll: 192347)

A Project report submitted to the Institute of Information Technology in partial fulfillment of the requirements for the degree of Bachelor of Science (B.Sc.) in Information and Communication Technology

Supervisor: Professor Dr. M. Shamim Kaiser

Institute of Information Technology

Jahangirnagar University

Savar, Dhaka-1342

DECLARATION

This project report is submitted to the Institute of Information Technology, Jahangirnagar University, Savar, Dhaka in partial fulfillment of the requirements for having the B.Sc. (Hons.) degree in ICT. This is also needed to certify that the project work is under the 3rd Year 2nd Semester course of the IIT "ICT-3200: Semester Project & Viva". So, we are here declaring that this project report has not been submitted elsewhere for the requirement of any kind of degree, diploma or publication.

Signature of the Candidate   Signature of the Candidate

  Mst. Sumiya Siddika   Md. Shakil Ahmed

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   Shariful Islam   Amit Azim Amit

ACCEPTANCE

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Dr. M. Shamim Kaiser

 Professor

Institute of Information Technology,

Jahangirnagar University, Savar, Dhaka - 1342, Bangladesh.

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ABSTRACT

Training Program Management Systems are used by training companies for providing streamlined training operations. These solutions help the training company to design, organize, scale, and maintain training programs. The proposed system is developed using the PHP programming language. A database management system such as MySQL is used to store and manage the data in the system. Front-end development tools such as HTML, CSS, and JavaScript, Bootstrap are used to build the user interface of the system. Version control systems such as GitHub are used to manage the codebase and collaborate with other developers. Training management systems often provide solutions for all learning professionals that schedule, track, and assess training efforts while overseeing employee training progress and certifications.

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CHAPTER 1

Introduction

1.1 Motivation

A Training Program Management System (TPMS) is used for the administration, documentation, tracking, and reporting of instructor-led-training programs. TPMS are focused on back-office processes and are considered a tool for corporate training administrators. A training management system acts as a central enterprise resource planning (ERP) software specific to the training industry. They can be complemented by other learning technologies such as a learning management system, and are part of the educational technology ecosystem [1].

1.2 Objective

The objective of the Training Program Management System (TPMS) is to provide a comprehensive platform for organizations to manage their training programs online. The system aims to streamline the process of creating, delivering, and tracking online training programs, making it easier for organizations to provide quality training to their employees, partners, and customers [3].

The primary objectives of our system are:

➢ To provide a centralized platform for managing all training-related activities, such as creating, scheduling, and delivering training programs.

➢ To make training programs easily accessible to trainees, regardless of their location or time zone.

➢ To provide tools and features for creating engaging and interactive training content like multimedia elements.

➢ To create a live chat application to solve the interaction problem.

1.3 Our Contribution

In this project, we include unique characteristics like live chat and an online payment method. Students can immediately interact with the instructor if they are having any issues. When a student enrolls in a course, they can confirm their payment online, which is a crucial convenience.

CHAPTER 2

Methodology

2.1 Overview

First of all, we create an account on the website. Login is divided into two categories admin login and user login. In the admin login, we can see the admin dashboard. The admin login functionality is creating course categories, adding a new course, maintaining a course, maintaining trainee enrollment, giving a message to the trainee, and controlling payment settings and language settings. In the user login, the functionality of the user profile is to view a profile and update the profile, search the course, add to the cart the course, buy the course, review the course, see the enrolled course, and live chat facility [5].

2.2 Required Equipment:

- Visual Studio Code
- MYSQL connector
- MYSQL Workbench

2.3 System Model

For Instructor:
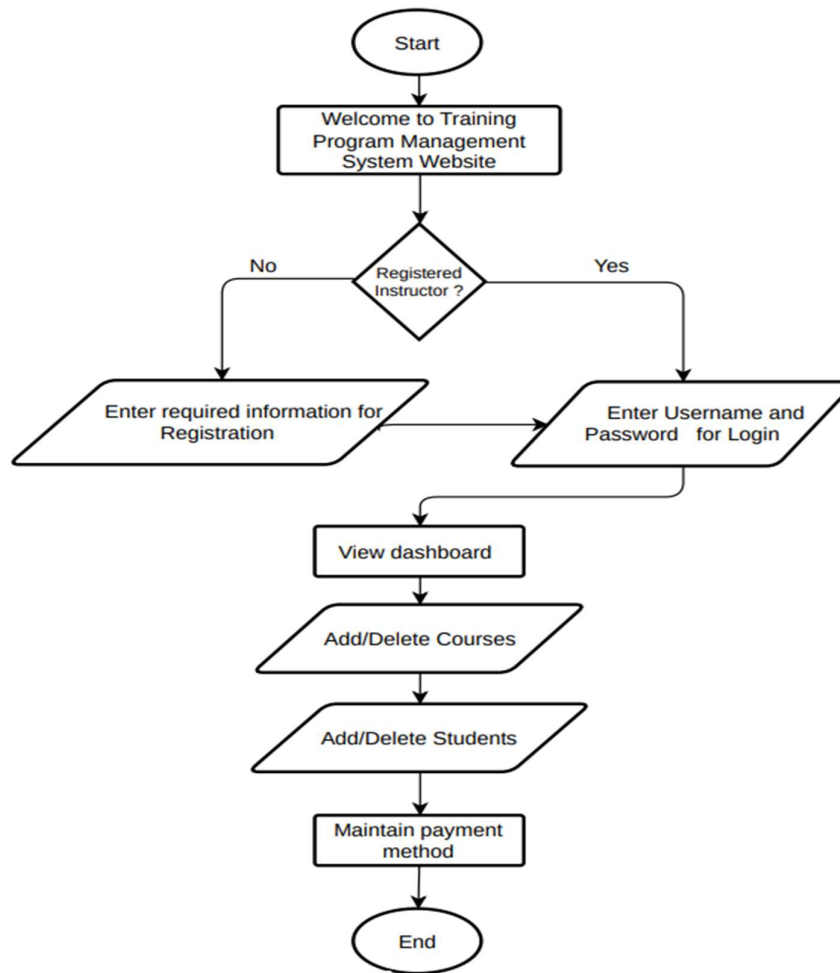
Figure 2.1: Flowchart for Instructor

Figure 2.1 shows, if the instructor is new, they must first register by providing the necessary information before using the provided username and password to log in. The instructor can then edit the payment mechanism, add or remove students, and add or delete courses from the dashboard.

For Trainee:
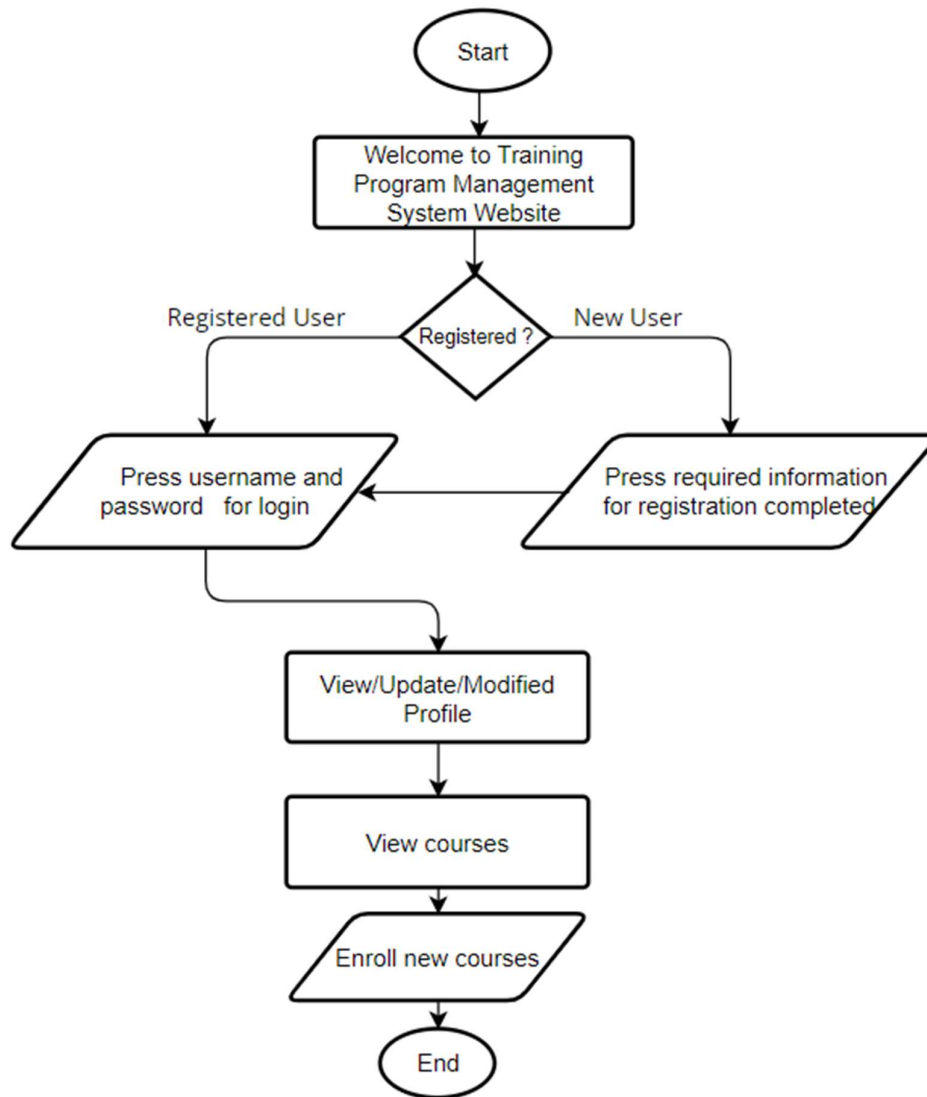
Figure 2.2: Flowchart for Trainee

Figure 2.2 shows, if the trainees are new, they must first register by providing the necessary information before using the provided username and password to log in. The trainee can then view/modified profile, view courses, enroll new courses.

CHAPTER 3

Result and Discussion

3.1 The website

3.1.1 Admin view
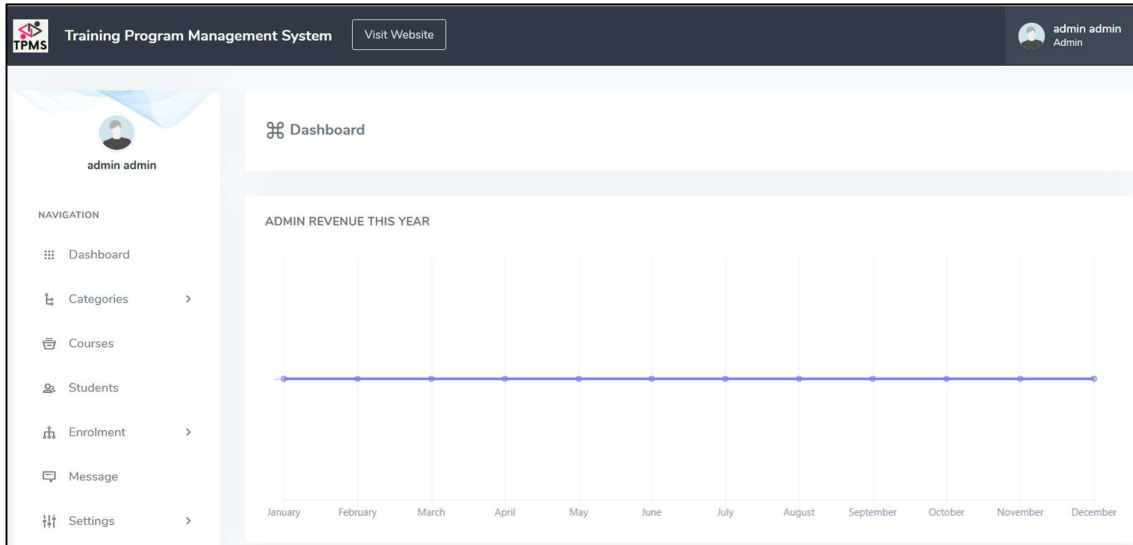
Figure 3.1: Admin Dashboard

Figure 3.1 shows the admin front page of this application. When an instructor or admin enters the required information, he/she will see this page. At first the instructor sign-ups to the system valid username and password. This page arrives when the instructor logs into his/her account [3].
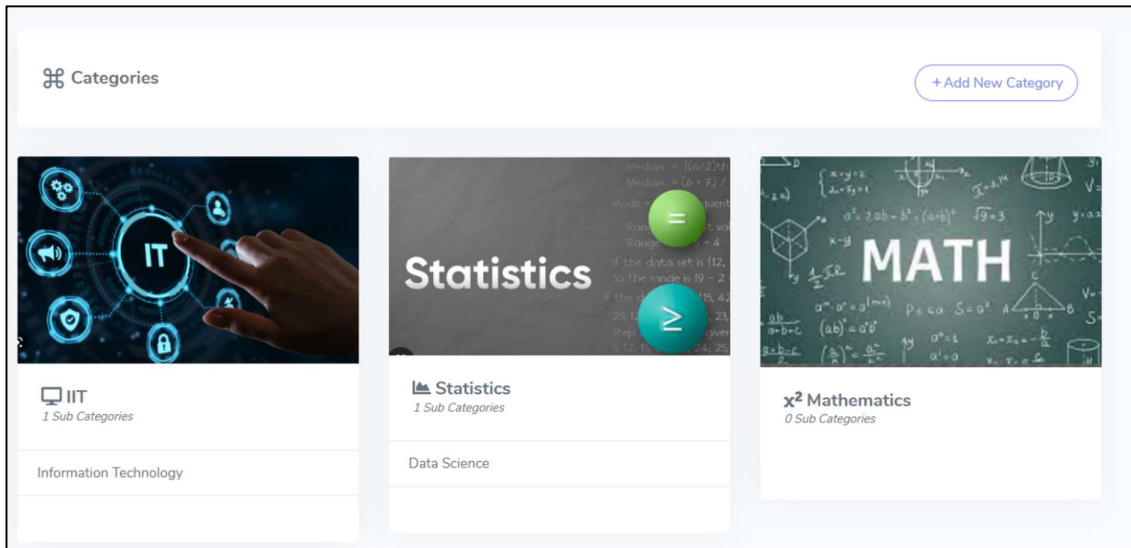
Figure 3.2: Categories

Figure 3.2 shows the categorization of the courses is displayed on this website. Different training types can be entered by the admin or instructor for trainees.
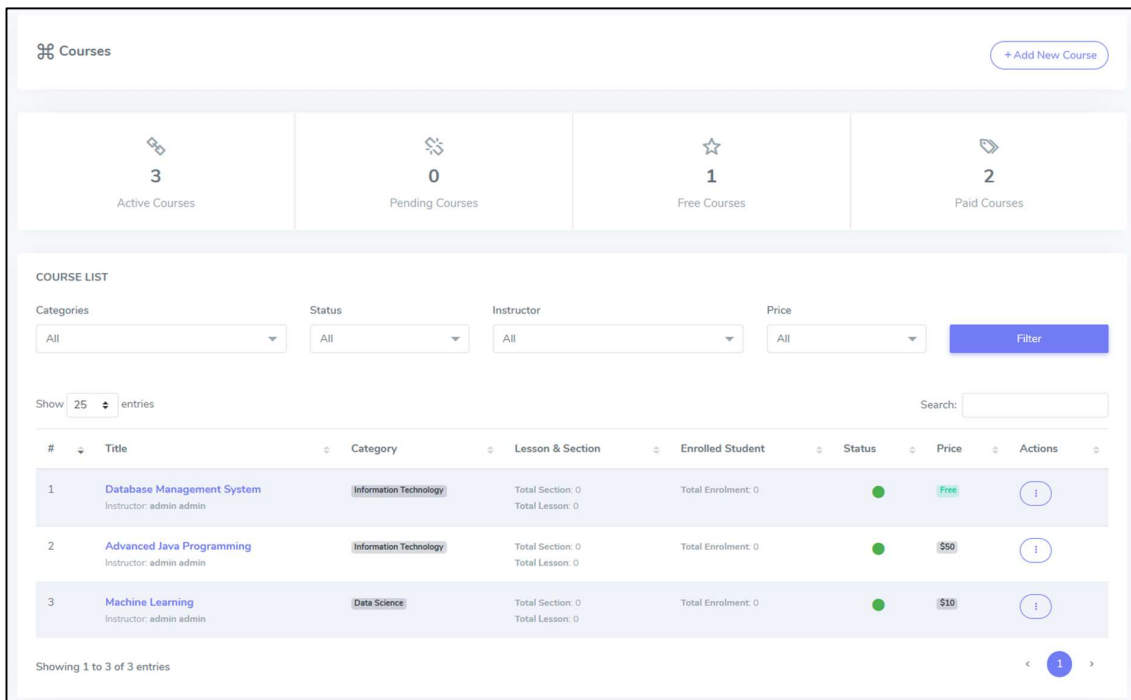
Figure 3.3: Courses

Figure 3.3 shows the available course for the Training Program Management System (TPMS). Admin/instructor can update/delete course content.

Figure 3.4: Student

Figure 3.4 shows page lists all of the students who have registered for classes. Additionally, it displays qualified students and classifies students according to their enrollment courses.

Figure 3.5: Enrolment History

Figure 3.5 shows the enrollment history of the classes can be viewed by the admin. Additionally displays the overall enrollment as well as the pending enrollment.
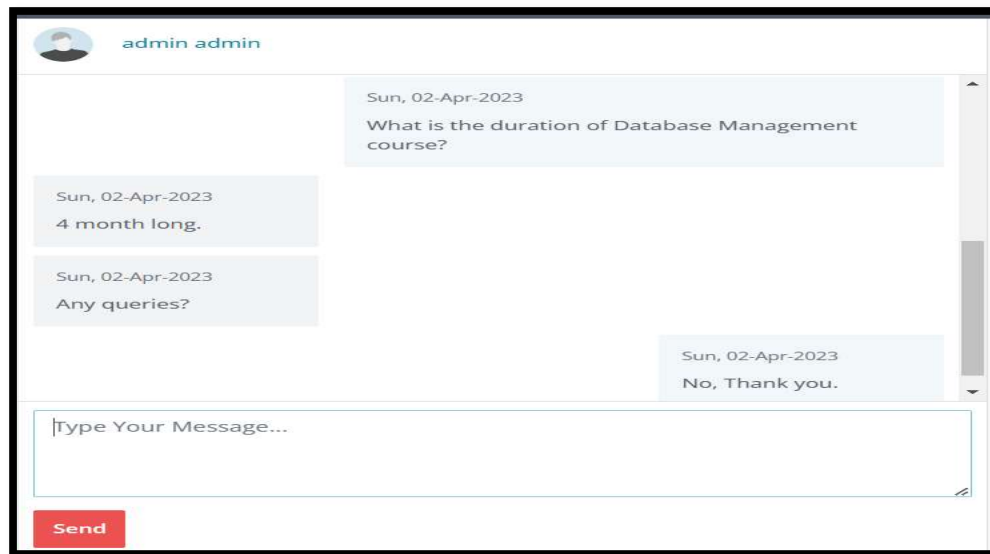
Figure 3.6: Live Chatting

Figure 3.6 shows trainees can immediately interact with the teacher if they have any issues, such as questions about how to pay for courses, how to enroll in them, or what the future of these courses holds [4].

Figure 3.7: Payment Setting

Figure 3.7 shows trainees can pay in a variety of currencies, including dollars, rupees, and TK. The necessary data was made up by the administrator for payment confirmation.
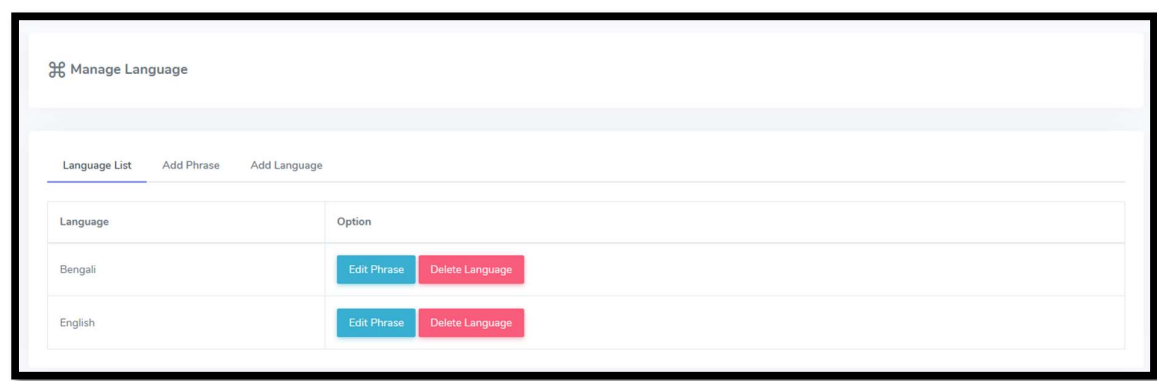

Figure 3.8: Language Setting

Figure 3.8 shows the admin/instructor can also configure the language for each lesson. The course material is created using a variety of language subtitles. The trainee can join in the language of their choice.
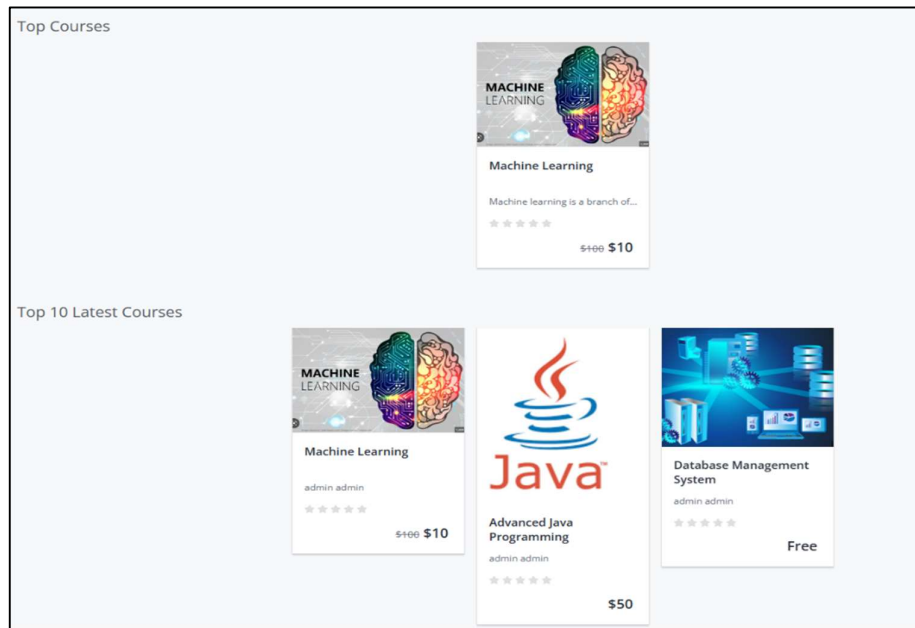
3.1.2 User View

Figure 3.9: Course Categorization

Figure 3.9 shows after user login user can search course and course category. Course Category help to find desired course for user.
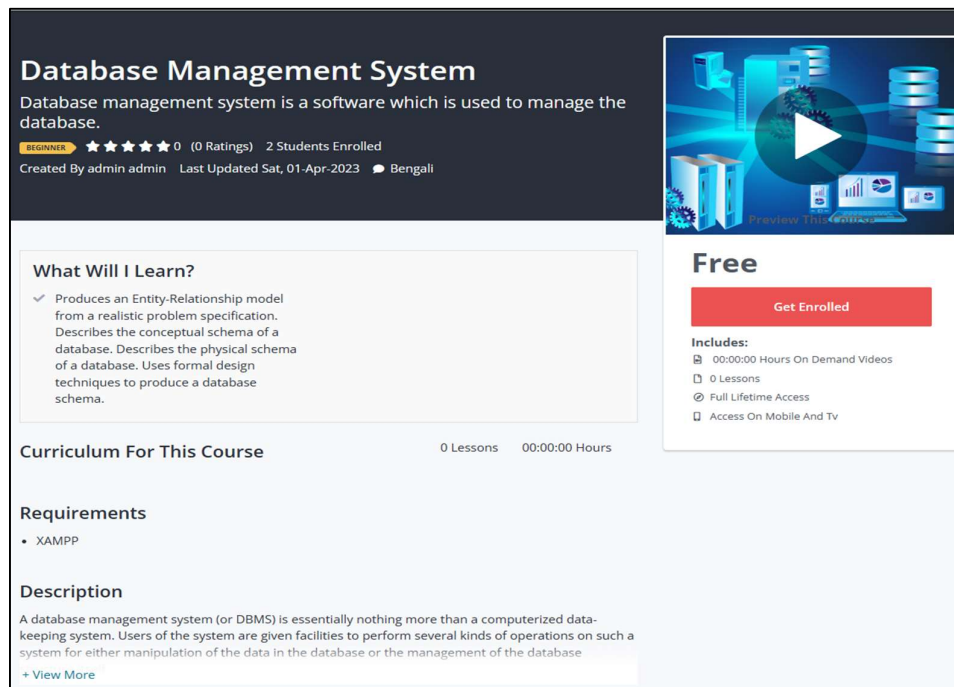

Figure 3.10: Course View

Figure 3.10 shows when users select a course then the course description serves to state the rationale for the course and give an overview of key content covered, skills and knowledge to be learned, and how it will benefit the student.
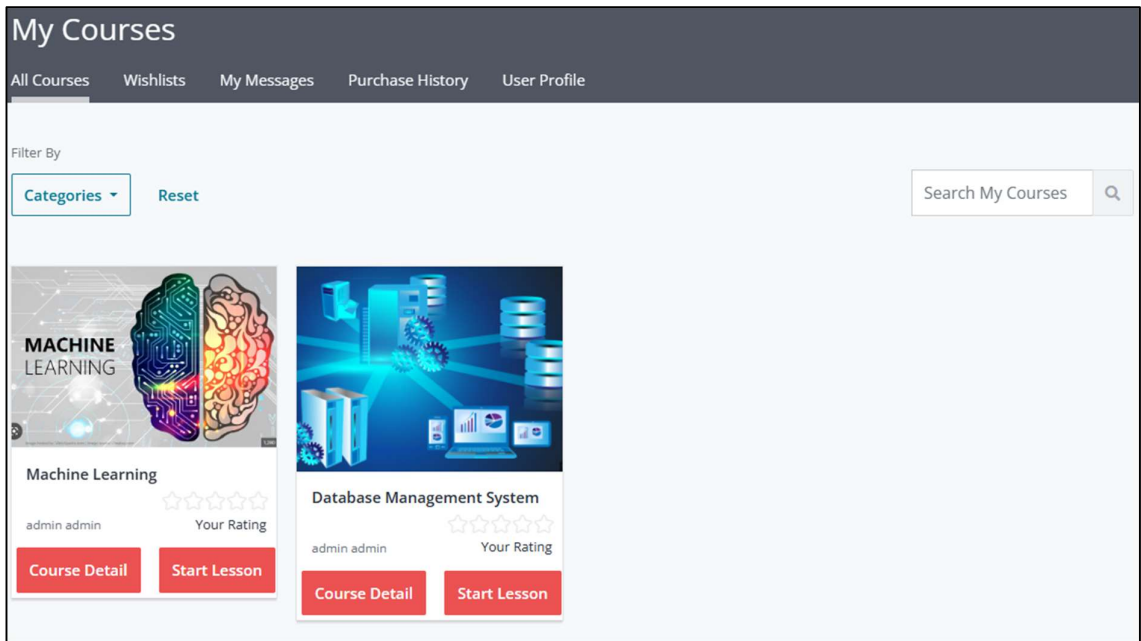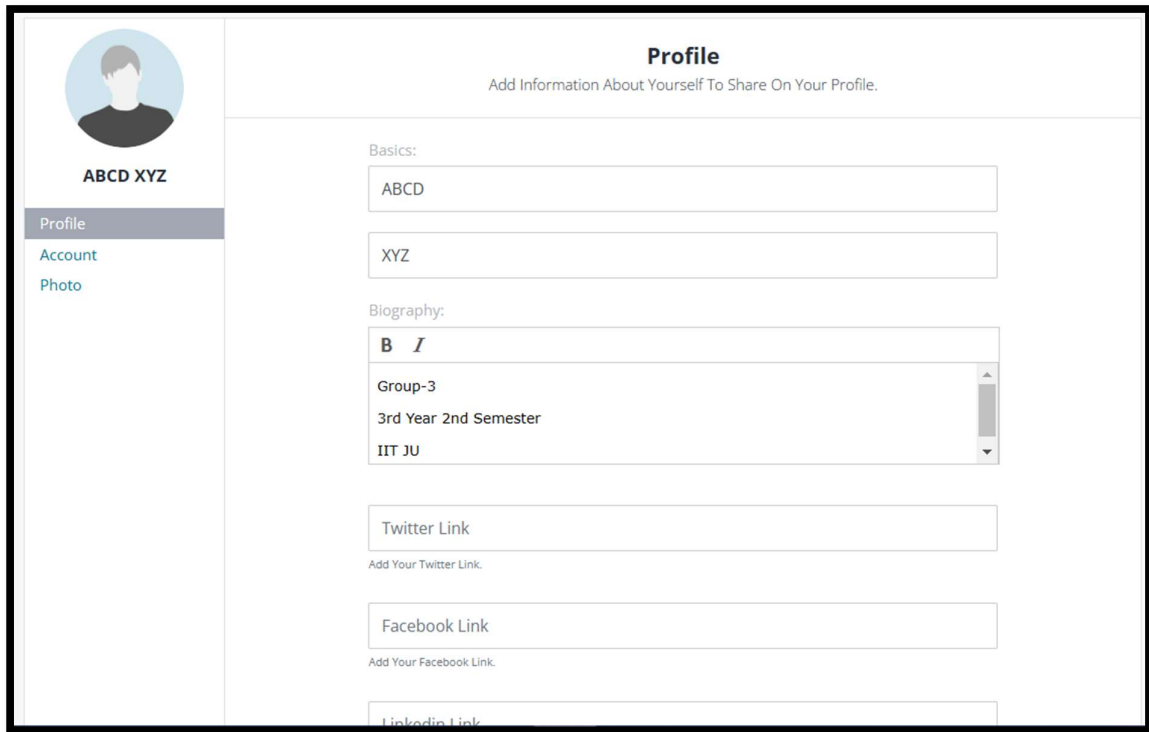

Figure 3.11: Enrolled Course

Figure 3.11 shows when the user finds their desired course and then they buy the course and view this enrolled course.

Figure 3.12: User Profile

Figure 3.12 shows user profile is a directory of stored user settings and information for the related user account. It contains critical information that is used to identify an individual, such as their name, age, portrait photograph, and individual characteristics such as knowledge or expertise.

3.2 Discussion

The software provided by this project can be used to manage online course purchases, handle bill payments, show course materials, etc. In order to buy courses for this project, trainees must first create an account. For purposes of future security, all of the trainees' information is preserved. The administrators update the course list, cost, and descriptions using the administrator module. It makes internet shopping simpler for students. They can choose their classes, add them to the cart, remove them if necessary, and pay with a card with ease. We have taken into account every element of the online training management system, including admin chat, making it a useful and practical piece of software [1]

CHAPTER 4

Future Work and Conclusion

4.1 Future work

Our future objective will be:

- Assessment System.
- Mobile Accessibility.
- Gamification Techniques.
- Minimizing Response Time.

4.2 Conclusion

A training program management system is an essential tool for managing and organizing training programs. It provides a centralized platform for tracking and managing the various aspects of training programs, such as scheduling, enrollment, and participant progress.

Overall, a training program management system can help organizations improve interaction with trainees, and the effectiveness and efficiency of their training programs, ultimately leading to better employee performance and organizational success [2].

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