

GODAWARI COLLEGE Itahari-9, Sunsari

An Internship Report
On
"Learningo: An E-Commerce Platform"

At

"Aspiring Tech Pvt. Ltd."

Submitted to:

Department of Computer Science and Information Technology

Godawari College

Itahari, Sunsari

In partial fulfillment of the requirement for the Bachelor's Degree in Computer Science and Information Technology (B.Sc. CSIT)

Submitted by:

Arash Thapa

TU Exam Roll No: 16449/074

MENTORS' RECOMMENDATION

I hereby recommend that the report has been prepared under my mentorship by Mr. Arash Thapa in partial fulfillment of the degree of Bachelor of Science in Computer Science and Information Technology (B.Sc.CSIT), to be processed for evaluation.
Abishek Nepal
Project Lead
Aspiring Tech Pvt. Ltd.
Itahari-9, Sunsari

Godawari College Tribhuvan University

SUPERVISOR'S RECOMMENDATION

I hereby recommend that this Internship project and report prepared under my supervision by **Arash Thapa** entitled "**Learningo: An E-Commerce Platform**" at "**Aspiring Tech Pvt. Ltd.**" in partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Information Technology be processed for the evaluation.

.....

Rabin Rimal

Internship Supervisor

Department of Computer Science and Information Technology

Godawari College

Itahari-9, Sunsari

Godawari College Tribhuvan University

LETTER OF APPROVAL

This is to certify that this project prepared by **Arash Thapa** entitled "**Learningo: An E-Commerce Platform**" at "**Aspiring Tech Pvt. Ltd.**" in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Information Technology has been well studied. In our opinion it's satisfactory within the scope and quality as a project for the specified degree.

Rabin Rimal	Rabin Rimal
Coordinator	Internship Supervisor
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observation and inputs have helped us directly or indirectly.

No words in this world can ever express the love and encouragement given by the parents so

thanks to them during my toughest days and providing moral and financial support in project

work.

Sincerely,

Arash Thapa

T.U. Roll No: 16449/074

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ABSTRACT

This report contains the details of the activities carried out during the internship conducted for

three months' internship duration. It helps to identify and describe the analysis carried out, projects

completed, experienced gained and focuses on the achievements as an intern.

Recently the e-commerce platform is playing an important role major areas. The aim of this report

is Web Based Online Shopping for online users based on the e-commerce theories. The main

objective of the website is to sell books include (Academic and Non-academic). For implement

the web based online shopping, it needs to use current technologies to achieve this goal. Firstly, it

should use latest technologies to achieve this goal. Firstly, the customer experience is improving

by making it interactive and ease of use. Then, it provides a user-friendly online shopping cart that

consist of features like add, update and delete the product. At last, implementation of electronic

payment system plays a vital role. All these technologies should be based on deliberated plan with

implementation of current tools and technologies to ensure a good revenue to the company.

Keywords: E-Commerce, Website, Shopping Cart, Electronic Payment System

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List of Abbreviations

Abbreviation	Full-Form
IT	Information Technology
ICT	Information and Communication Technology
SMM	Social Media Marketing
PPC	Pay Per Click
SEO	Search Engine Optimization
UI	User Interface
UX	User Experience
HTML	Hyper Text Markup Language
CSS	Cascading Style Sheets
JS	JavaScript
ER	Entity Relation
SDLC	Software Development Life Cycle
DFD	Data Flow Diagram
SQL	Structured Query Language
РНР	Hypertext Preprocessor

CHAPTER 1: INTRODUCTION

1.1. Introduction

The age of internet shopping has already appropriated the world, and that is the reason why everyone needs to buy online. Shopping has long been thought about a recreational activity by several. Shopping online is no exception. The purpose of this product is to develop a web-based interface for online retailers. The system would be simple to use and thus make the shopping experience pleasant for the users (Interspire, 2022).

Learningo is an online book store which sells academic book of Barahakshetra Municipality as well as nobles. The website designed for this organization improve the user experience to purchase the book of their respective schools. There are mainly two types of users first one is normal user (students/Parents) who view product and make purchase and second one is admin (bookstore) who frequently add and update the products and its description. It is the web application that allows customers to find an item that they would like and if they want can add it to the cart from where they can check out through digital/online payment or else cash-on-delivery option.

1.2. Problem Statement

Many companies started the trend of e-commerce in Nepal a decade ago, but the challenges are still the same. The actual sales have not been able to start due to a lack of knowledge, awareness, and online payment systems and belief of people. Many online payment Gateways are being integrated but they all have their own limitations due to legal and security issues. They still have a level of trust to build among visitors.

A variety of online bookstores has been established till now. Some of the major ones are BooksMandala, Daraz, Ratna Pustak Bhandar, Thuprai, and so on. All these online bookstores have similar features i.e. they sell books in categories such as law, loksewa, comic, novel, magazine, novels, etc. There is no online bookstore that sells an academic book for school-level students on the basis of their respective schools and class. Although people do not have the right to book selection, Students/Guardians still have to visit the local bookstore to purchase the academic book. The various demerits of the physical bookstore are listed below;

• Time-consuming to visit the store

- Costly for a seller to establish the physical store as it includes varieties of charges such as water bills, electricity bills, rent etc.
- Unequal distribution of discounted rates
- Unknown about the availability of books

For this purpose, our web app is suitable as it overcomes all the problems stated below and has the following features:

- User-friendly website with a simple interface.
- Search engine based on the school and the grades.
- Full description of price, discount rate and available status
- Equal discount for all
- User friendly admin panel for bookstore to manages the book

1.3. Objectives

The internship is done as partial fulfillment of requirements of the Bachelor's degree in Computer Science and Information Technology under Tribhuvan University. The major goals of the internship project are to get practical experience of the theoretical knowledge gained in the classroom. The board objectives of this internship are as follows;

- Increase overall technical knowledge Learning new languages and technologies is important to increase my capabilities. Technology is forever changing, and I strive to always keep in the know with new and emerging technology.
- Start own personal web-project The tools and technologies learned here helps to create
 my own projects and further develop my project management and estimation skills for
 future projects.
- **Become a professional in my field** I want to be recognized as a professional in my field who takes his work seriously and is always bettering himself.
- Gain experience to further my career I want to gain new experience while working
 with Aspiring Tech teams to produce real business solutions. This helps to open doors to
 new opportunities.

The main objective of the project is to develop an online website for online book store that allows users to search and purchase an academic book based on School name and class. Some other objectives of this project are listed below;

- To develop user friendly interface.
- To develop a book library where various books are categorized from where user can view a complete description of the products and order the product.
- To build a search engine that provides an easy and convenient way to search for products based on search terms.
- To build an online shopping cart with checkout system that accepts online payment.
- To build a cart that provides a special discounted offer with full product description.

1.4. Scope and Limitation

This project is aimed at simplifying the process of buying and selling of academic book through online. The following points are the expectation that must be fulfilled by E-Commerce Website to increase the productivity and sales of the organization;

- The customer must buy variety of items
- Optimized search engine based on school and grade
- The user can view the items added by the retailer
- User can add, update and remove the item in the cart
- User have to login before checkout
- Checkout user is taken to online billing process

Beside these, it must well-managed admin panel for bookstore having following functionalities;

- Seller can add, update, remove the book from online store.
- Full description of clients including delivery address and cart bill
- Seller can add or remove schools from store whenever they required

Although this project has numerous advantages, it also has some of the limitations which might be upgraded in future. This project's limitation is similar one with e-commerce limitation. The major limitations are listed below;

Lack of Awareness:

Since this is a new technology majority of the people are unfamiliar with this system. They still follow the majority i.e. purchasing book from local bookstore.

Language:

Language is the major barrier as most of the people are unfamiliar with English language. People unfamiliar with the language still visits physical store. So, a language translator added in future, can translate the entire system accordance with their comfort language.

• Security:

There is always a risk of security in e-commerce platform. The major security risks are client/server risk, data transfer risk, transaction risk and virus risk. The legal issues arise when the customer data is fall in the hands of strangers.

1.5. Report Organization

The required content for the project is structured into four main chapters. These four chapters are divided further to explain the content in details. The main four chapters which are summarized in this report are discussed below;

- **Chapter 1** is the Introductory part which explains the overview of the project. Basically it focuses on Problem statement, objectives, scope and limitations.
- Chapter 2, the Organization Details and Literature Review part explains the Organization along with its Hierarchy and working domains. Beside these, it highlights the team members working for this project. It also covers the background study, fundamental theories and the review of the relevant research presented by other researchers.
- Chapter 3, Internship Activities is the main part of this report. It provides a description of the project involved during an internship as well as tasks or activities performed during that period. Not only this much it highlights the roles and responsibilities on the respective organization. The weekly log presented here explains what technical activities were performed during the week. The integration of this weekly logs describes the entire internship period.
- Chapter 4 is the Conclusion and Learning Outcomes in which we summarized the overall internship project. It also focuses on the what technical and non-technical skills I have learnt for this internship project.

CHAPTER 2: ORGANIZATION DETAILS AND LITERATURE REVIEW

2.1 Introduction to Organization

There is rapid growth in Nepal's software and website development industry. There are many mentionable organizations who plays great role in development of this industry and Aspiring Tech Pvt. Ltd. is one of them. Aspiring Tech is one of the fast growing IT firms' operation in Itahari which provide web-app, mobile app, and software as per the client's request. Aspiring Tech has put together a package of products and services to fulfill a small business's immediate information technology requirements.

Aspiring Tech is led by a strong young motivated and skilled management team who have knowledge and experience in computer engineering and Information and communication technology (ICT) industry. With this experience, it is uniquely positioned to offer solution promising greater operational efficiency, productivity gains, cost savings and implement their e-business strategies successfully.

Table 1: Contact Information of Aspiring Tech

Address	B.P Chowk, Itahari-9, Sunsari 56705	
Working Hours	10 AM to 5 PM	
Email	info@theaspiringgroup.com	
Phone Number	+9779869419971	
Website	http://www.theaspiringgroup.com/	
Founder	Abishek Nepal, Paru Rimal	



Figure 1 : Official Logo of Aspiring
Tech

2.2 Organizational Hierarchy

An organizational chart is a diagram that visually conveys a company's internal structure by dealing the roles, responsibilities, and relationships between individuals within an entity. Organizational charts are alternatively referred to as "org charts" or "organization charts". The organizational chart of Aspiring Tech Pvt. Ltd. is shown in the figure below:

Aspiring Tech Pvt. Ltd.

Organizational Chart

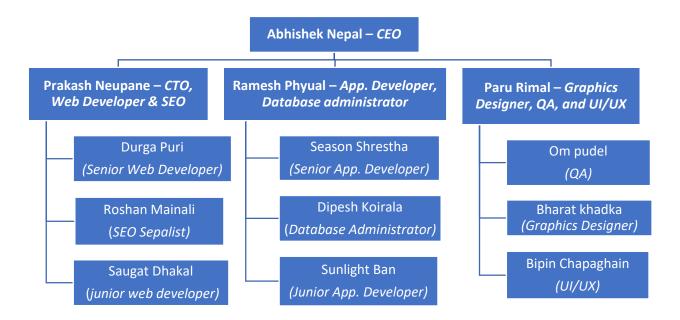


Figure 2: Organizational Hierarchy of Aspiring Tech Pvt. Ltd.

Aspiring Tech Pvt. Ltd, follows the most popular organizational chart type i.e. hierarchical model. In this organization structure, employees are organized into groups, each with a distinct supervisor. These grouping is done based on a functionality factor. Employees are grouped as per the function they provide. The web developer and SEO team is grouped and lead by the Prakash Neupane. The app developer and database designer is managed by Ramesh Phyual. Likewise, Graphics and UI/UX designer and QA team is guided by Paru Rimal. All these leaders are controlled by the chief executive officer, Abishek Nepal.

2.3 Working Domains of Organization

In today's world, the whole organization relies heavily on technology to maintain performance connected, boosting revenue and supporting the needs of ever-growing customers. Undoubtedly, IT is the key to managing technology and covers many areas which includes but is not limited to things like computer software, information systems, programming languages, website management systems, networks etc. keeping this in mind Aspiring Tech Pvt. Ltd provides impressive statistics on services and solution. Aspiring Tech offers the following services:

- **Development of Mobile Applications:** Delivers best-in-class services on all platforms such as windows, iOS, android, and Blackberry from a team of experts and well-trained developers in a fixed interval of time.
- **Software Development:** Aspire Tech Developers provides a flexible and scalable software solution to meet the needs of small as well as large firms.
- Digital Marketing: Promote the client's business in an online world to grow faster, increase sales and services, and increase potential audience. Digital marketing service includes all the online marketing forms like SMM, PPC, content marketing and many more.
- Website Development: Provides professional website design with simple and beautiful UX for all types of business along with their maintenance and time to time update.
- **Web Hosting:** Provides an advanced list of web hosting solutions namely secure, reliable and in accordance with the needs of your business.
- **SEO Resources:** Make every effort to get your website up and running be aware and get the right kind of traffic. They provide services of local SEO, on-page SEO, and off-page SEO.
- **Domain Registration:** Provides domain name registration and offers excellent customer service in best prices and a host of other features.

2.4 Description of Intern Department

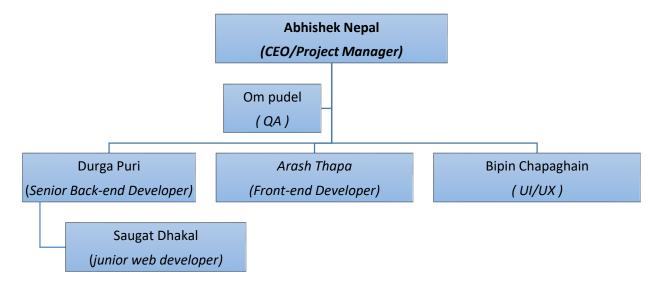


Figure 3: Organization Structure for Learningo Project

Project Manager

The project manager's primary responsibility is to coordinate the efforts of other team members to complete all tasks on time and within budget. In order to get things done, a project manager creates a plan that covers the scope of the project, sets goals for team members, defines milestones and deadlines, etc. It is also vital for a project manager to have complete control over the entire project development life cycle. For this purpose, this specialist should constantly monitor the progress of tasks and compare this data with the original project development plan. A project manager's work requires constant communication with the customer and team members to quickly resolve issues and report on current progress.

UI/UX Designer

The work of UI/UX designers largely determines the course of project development and its future success. First of all, it is important to create an eye-catching design that catches the attention of the first users. To ensure that these users stay with you, the app should also be intuitive, and easy to use, and all features must be easily accessible.

A UI/UX designer begins working on a project with a requirements analysis to understand what difficulties the target audience may face and how to overcome them through design. UI/UX designers can also write user stories describing how users behave when interacting with an application. Product visuals such as color scheme, fonts, buttons and more are also part of a UI/UX designer's responsibility. To outline what the final version of the product will look like, the designers created a wireframe that demonstrates the schematic placement of the user interface elements.

Developers

The development team is responsible for the back-end and front-end parts of the project. In short, the back-end is the part of the application responsible for interacting with the server. Everything that happens on the other side of the user interface is, roughly speaking, the responsibility of the back-end developer. These specialists write server-side code using languages and frameworks suitable for the purpose, such as PHP. These specialists are also responsible for creating and managing the database.

Front-end, on the other hand, is a term that includes everything you see on the screen while working with an application. Front-end developers are specialists who work on the client side of

web applications using CSS, HTML, JavaScript, and numerous libraries like jQuery and frameworks like Bootstrap designed to simplify the project development process. When creating an application, front-end developers follow the specifications and prototype/wireframe developed during the previous stages of the project.

Quality Assurance

The main task of a quality assurance (QA) engineer is to minimize the number of errors before the product is released to the market. The QA team is declared last in our list of vital specialists. But that doesn't mean you should only think about testing after your development team has finished writing the code. In fact, the sooner you start implementing testing activities, the less likely you are to experience rework, errors, and unexpected problems. The testing process should start during the requirements development phase of the project. QA engineers can use the requirements list to create an initial test plan. During the project lifecycle, developers should submit each version of the application to quality control specialists to ensure that it meets the technical requirements and customer expectations.

Bug reports generated by QA team members should be forwarded to the development team to improve the application. The review should help QA specialists ensure that developers have resolved the issue correctly.

2.5 Literature Review

Learningo, an E-commerce platform is a system developed using HTML, CSS, JavaScript, PHP and MySQL as a database. This site works as a mediator for a book seller and the buyer. Here, the book seller is the respective company itself. It doesn't allow the other vendor. This site helps the company to sells its product and buyer to buy the product through the help of internet.

In online selling, a cart is a piece of e-commerce software package on a web server that allows guests to an internet site to pick out items for eventual purchase, analogous to the American English term "shopping cart" (Farris, Bendle, Pfeifer, & Reibstein, 2010).

In today's situation, people are very busy with their lives. In this busy life, the main problem for people is to find the right product at the right time. Most of the time users are unable to find what they're looking for. Traveling to different stores and comparing the product to find the right product wastes time and money. People usually have to compromise with the similar product they

find instead of finding the right product. Due to lack of time, people have to spend more money than the actual price of the same product.

Some online players like eBay, Amazon, Thupraui, Daraz, Booksmandala, and many others provide a platform for third parties to sell their items through their e-commerce or to sell their own books. It is now common for online sellers and manufacturers to integrate with marketplaces such as Amazon, eBay, Amazon.com, and Daraz.com. The concept gained significant traction as a digital marketplace after the success of the iPhone App Store in 2008. With an estimated \$30 billion mobile app market by 2013, software and SaaS vendors are expected to follow suit in the race to own and monetize apps. marketplaces innovated by Google, Salesforce, and Intuit.

With the advancement of technology, the e-commerce website has a huge scope in all areas of today's world, many people depend on the internet to do their work. There were 11.51 million internet users in Nepal in January 2022. 38.4% of total people use internet services in Nepal. This rate has been increased by 7.7% between 2021 and 2022 (Kemp, 2022). Among these users, many of them use e-commerce websites for their business. This website helps the seller to sell his product and the buyer to find the right product, saving his valuable time and money. E-commerce websites may distribute, sell, or purchase goods or services online through the transfer of funds through electronic networks or communications.

The main advantages of this type of site are that we can open an online store relatively easily and avoid some of the overhead costs of placing a physical store. It is accessible to clients 24 hours all seven days worldwide. This expands our geographical and customer reach as our business is not limited to clients or customers around our immediate physical location. Creating an e-commerce website that is user-friendly and accessible to a large number of clients is also helpful as it provides easier information delivery. Instead of calling to find out store hours or more information about our company, our catalog software can display real-time information, promotions, sales, and data about our products or services. Allowing customers to shop from the comfort and convenience of their homes at any time of the day or night can increase our sales and potentially our profits while reducing the cost of your business. We are also able to enhance the product and brand. Awareness as well as increasing customer loyalty. The possibilities are endless and it is good to use an online store to increase our business.

E-commerce in Nepal

Many companies started the e-commerce trend in Nepal a decade ago, but the challenges are still

the same. Actual sales failed to take off due to lack of knowledge, awareness and online payment

systems. Sales worldwide and within the country are the same in years. Payment gateways are

evolving but have their limitations due to legal and security issues. Lack of proper knowledge and

awareness among the generation is a major obstacle in e-commerce. In recent years, education and

internet access among many people in Nepal have brightened the future of e-commerce Students'

interest in IT field, the growth of IT companies has helped a lot in the awareness and interest of

the young generation for internet and IT has directly created more opportunities for the growth of

e-commerce in Nepal (Kalopati, 2022).

Online Bookstores in Nepal

With the advancement in e-commerce, the Nepalese bookstore market is also shifting towards the

online business. There is a number of bookstores available on internet which sells varieties of

books which include comics, novels written by Nepalese and foreign writers, self-help books,

dictionary, magazines and many more (Nakarmi, 2022). These online sites also provide e-books

on their websites. Some of the major online bookstores in Nepal are listed below;

Books Mandala

Daraz

Infi store

Wonder Books Nepal

Ratna Books

Okdam

Ekta Books

Hamrobazar

Thuprai

Pilgrims Book House

Himal Books: Book Shop

Owasis Publication

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CHAPTER 3: INTERNSHIP ACTIVITIES

3.1 Roles and Responsibilities

An internship is the period of work experience offered by the organization for a limited period of time. During the internship, knowledge of various platforms and programming languages is acquired. The goal was to provide a full-fledged web system using various tools and frameworks like HTML, CSS, JavaScript, and PHP. To meet this goal, this internship required extensive preliminary studies on HTML, CSS, JS and Bootstrap before actually analyzing the actual system requirement. The study was required not only for the understanding of the studied subject, but also for the implementation of solutions to existing problems, and the implementation of the knowledge from the study was another bigger challenge.

Besides study of Front end development tools and technologies (HTML5, CSS3, JS, Bootstrap), other major responsibilities in the organization involved the followings:

- Participation in regular office conferences and involvement in work analysis
- Interacting with purchaser/clients and developing personal relationships
- Design of web application presented by UI/UX designer as per the client's request
- Optimize applications for optimum speed
- Team-up with back-end developers and web designers to enhance usability
- Assist back-end developers in database design and troubleshooting
- Ensure top quality graphic standards and complete consistency
- Stay up-to-date on emerging tools and technologies

3.2 Weekly Log

An internship is the period of work experience offered by organization for a limited period of time. One gains a knowledge of various platforms, frameworks and programming languages during the internship period. The internship period is break down into several 12 weeks. During this time, Mentor had broken down the entire projects into several tasks and complete each task scheduled on time. At the end of each week, the meeting has been conducted by the mentors and supervisors. The description of the project has been submitted to them so that they assigned a new task for the week and monitored for the completion of the task.

Table 2: Activity performed on each week during internship period

Duration	Description		
First Week (2022/05/12 - 2022/05/19)	Preliminary workPlanning and Discussion		
Second Week (2022/05/20 - 2022/05/26)	Prepare and submit proposalApproval from supervisor		
Third Week (2022/05/27 - 2022/06/03)	 Studying company standards, culture and guidelines Introduction to team members Briefing of project by the members 		
Fourth Week (2022/06/04 - 2022/06/10)	 Research on existing online platforms Research on shopping cart Research on Design 		
Fifth Week (2022/06/11 - 2022/06/17)	Component Designed in Front-end using Bootstrap		
Sixth Week (2022/06/18 - 2022/06/24)	 Form Validation using JavaScript Solving authentication issues with back-end team 		
Seventh Week (2022/06/25 - 2022/07/01)	 Build a shopping cart with checkout feature that accepts cash on delivery and online payment method Implemented an online payment gateway 		
Eight Week (2022/07/02 - 2022/07/08)	Improved user interface and overall user experience		
Ninth Week (2022/07/09 - 2022/07/15)	Assigned to admin panel site for adding features like book management, user management, school and their respective class management, Discount offer management, feedback management, orders management and many more		
Tenth Week (2022/07/16 - 2022/07/22)	 Collaborated with back-end developers to help in DB design and CRUD operations Bug fixed and solved major issues like authorization and app freezing 		
Eleventh Week (2022/07/23 - 2022/07/29)	 System Testing such as unit testing, integration testing Hosted the sample in real server 		
Twelfth Week (2022/07/30 - 2022/08/06)	 Final Report Writing Report Evaluation Report Submission 		

3.3 Description of the Project Involved During Internship

There are many online book stores like BooksMandala, Daraz, Infi Store, BooksNow Nepal which were designed earlier. They want to develop a similar website using Html, css, javascript, php and SQL server. Online Book store is a web application where the client can buy books online. Through a web browser the shoppers will look for a book by its title or author, later will add to the shopping cart and eventually purchase using online modes. The user will login using his account details or new customers will set up an account very quickly. They must provide their valid details such as name, contact number and shipping address. The user can also give feedback to a book by giving ratings on a score of five or directly register the issues faces to the store. The books are divided into many categories based on School and Grades Like Class1, Class2 etc.



Figure 4: Functionalities of Learningo website

a) A Home page with product catalog

This is the page where the user will be navigated after visiting the website URL. It will display all the search bar and a special section called Pustakalaya where different non-academic books will be placed. It also embeds some special sections like recommended titles, weekly special books and special offers on complete school book package.

b) Search

A search by school name and its respective grades option is provided to the user using a drop-down selection box. The school and grade should be selected to get appropriate book set. Advanced search helps the user to search for a Non-academic book based on Title, Author, Category and price range. All the books that match the actual search criteria and their total count are going to be displayed from here the user will choose a book and add to the cart.

c) Book Description

If the user would love to grasp details about a book, then he will click on the title from where he is going to be directed to a Book description page. It includes the all the details including author, publication, price and many more.

d) Shopping Cart

The user will manage a cart which can embrace all the books he selected. The user will edit, delete and update his cart. A final cart outline is displayed which incorporates all the items the user selected and therefore the final total price.

e) Managing user accounts

Each user should have an account to access all the functionalities of checkout. User will login using login page and logout using the logout page. All the user sessions are going to be saved in the database.

f) Checkout

The user can choose a payment option while performing checkout. Here, he/she will have to provide proper mailing address with contact details. There are two payment method integrated in the system. First one is online payment through different wallet like esewa, khalti etc. and second one is cash on delivery method.

g) Administration

The Admin are going to be given special functionalities like

- Add or delete a book category
- Add or delete school list
- Add or delete a member
- Manage member orders
- Add or delete an online payment type
- Send feedback reply

3.4 Tasks / Activities Performed

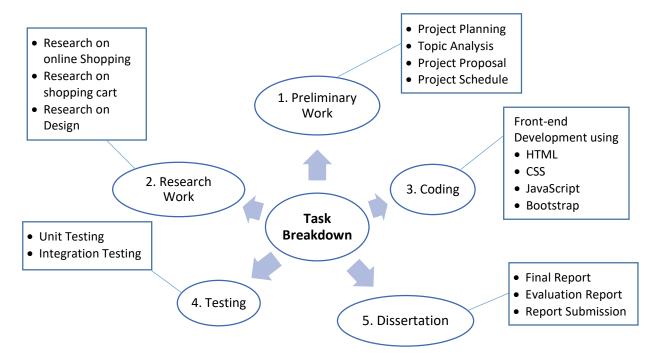


Figure 5: Task Breakdown of Internship Activities

The entire project is break down into following five tasks. These tasks are the collection of subtasks performed in each task. Every task and sub-tasks should perform singly one after another. The following lists shows the tasks with their respective sub-tasks.

a) Preliminary Work

The preliminary work is a key step in early stage of project development, where customer requirements and use cases support the creation of the system. It provides us the blue print of the project. It also helps to identifies the risks and prevents Mistakes. The major work done during this phase are listed below;

- Planning for the Project
- Analysis on the Topics
- Meeting with Mentors
- Preparation of Project Proposal
- Construction of Gantt chart and Project Schedule
- Approval from Supervisor

b) Research Work

Research works suggests that to search out or investigate into a subject matter, project etc. This section involves understanding what has to design and what is its function, purpose, etc. Here, the specifications of the input and output or the ultimate product are studied and marked. We've done numerous works during this phases. Following are the major research done on the respective topic;

- Research on Online Shopping and online Shopping Cart
- Research on Preparing Best Design

c) Coding

With inputs from system design, the system is initially developed in small programs known as units, which are integrated into the next phase. Each unit is developed and tested for its particular functionality which is mentioned to as Unit Testing. The coding of the system is split into two major parts;

- Front End Development: Developed web app using html5, css3, JS and Bootstrap. Also developed admin panel for customizing products and managing the schools and users.
- Back End Development: Collaborated with back-end developers to help in DB design and CRUD operations

d) Testing

The software system designed, has to bear constant software testing to search out if there are any flaws or errors. Testing is done so that the consumer doesn't face any downside throughout the installation of the software system. The major testing that were used in our projects are;

- unit Testing: Unit testing is done after a module has been coded and reviewed. We tested each smallest unit of the program and noted out the errors occurred during the testing.
- Integration Testing: Integration testing is carried out for all (or at least some of) the
 modules have been unit tested. Its main objective is to check whether the different modules
 of the program interface with each other properly.

e) Dissertation

The dissertation is a critical review of the literature that addresses the major question, or series of question, relevant to your research project. These tasks include can be done concurrently from starting phases or done at last. The major work done during this phases are;

- Final Report Writing and Report Analysis
- Final Documentation Printing and Document Submission

CHAPTER 4: CONCLUSION AND LEARNING OUTCOMES

4.1 Conclusion

This project is aimed at simplifying the process of buying and selling of academic book through online. The goal of "Online Shopping" is to offer a web-based application that would simplify the process of seeing and choosing a product. The user can then view each product's specifications. Any Ecommerce application can use the application. Utilization is simple. Customers have the option to both view and remove things from their shopping carts. Users can enjoy themselves when shopping online because to the application's simplicity and interactivity. It has undergone extensive testing and implementation.

4.2 Learning Outcome

Working as an intern at Aspiring Tech Pvt. Ltd was a great experience for me. That was my first crack at working in a professional environment. Before joining the organization as an intern, I only had an outside view and insight as an observer of how a professional organization works. However, after completing the internship, I got an insight into the professional environment and gained experience through direct involvement in daily activities. I was given a great opportunity to enroll in the development of a system that was solely focused on the effective and efficient management of various components and tasks. The system was successfully developed. The various learning outcomes during this internship project are listed below;

a) Programming

HTML, CSS, JS and Bootstrap are the major technologies which I learned during my internships. Although I had a working knowledge of front-end building components, coding gave me a chance to meet the professional world where I gained a lot of knowledge and skills to solve a real world problem. The major learning outcomes in programming were;

- Understood the principle for creating the web pages
- Learnt the implementation of Bootstrap using or without using CDN
- Implementation APIs in web pages
- Learnt CSS layouts
- Learnt procedure for responsive web design, including media queries
- Insert social media content into web pages

b) Time Management

I have learnt how to properly manage time during SDLC process and face a critical situations and meet the deadlines. The team leaders encourage me to work smarter not harder due to which I can done more work in less time although the pressure is high. This adds a good experience for me and for my future job prospective.

c) Communication

This organization helps me to improve my communication skills. I felt that working with aspiring tech not only enhanced my vocal communication but also written ones. This written improvement helped me to make my documentation better. Beside these, the internship has boost my confidence to communicate fluently and build good relationship with diverse peoples.

d) Team Work

Working with a group of peoples were a new experience for me. I clearly understood that each team member shares an equal and important role to build the website as per requirement and deliver on time. I learnt how to collaborate with various members of web development team such as project manager, Quality Assurance, Developers, UI/UX designers and many more. This collaboration resulted to solve a common problem in a group.

e) Broaden Professional Network

It is easy to grow your professional network while working in the field. This internship program helped me to build connections with our expert staff and partner organizations. Meeting up with project members and organization members helped me to find new opportunities in my professional development.

f) Ethics and standards

I have learnt the basic principles of ethical web development. The basic principles that I learnt and implemented in our websites are listed below;

- Use of Alternative text, contrasting colors and Device-First Design
- Limit Data Collection
- Branding, Navigation and Coding standards
- Avoid Unnecessary Plugins
- Document your website
- Use images which are free of copyright issues
- Make sure the content of the website doesn't violate any rules and laws by government

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Appendices

1. Test Cases for User

Table 3: Test cases for Registration Page

Test ID	Test Description	Input Test Data	Expected Result	Actual Result	Status
1	Enter valid Details	First Name, Last Name, Username/ Email, Password, Mobile number, Address	Redirect to Login Page	Redirected Successful	Pass
2	Enter Incomplete Details	First Name, Last Name, Username/ Email, Password, Mobile number, Address	Error message appeared Redirect to Signup Page	Error message appeared. Redirected to Signup Page	Pass

Table 4 : Test cases for Login Page

Test ID	Test Description	Input Test Data	Expected Result	Actual Result	Status
1	Enter valid login Details	Username/Email, Password	Redirect to Dashboard	Redirect Successful	Pass
2	Invalid login credentials	Wrong Username/Email or Password	Redirect to Login Page	Error message appeared	Pass
3	logout	Null	Redirect to Landing Page	Redirect Successful	Pass

Table 5: Test Cases for Add to Cart Page

Test ID	Test Description	Input Test Data	Expected Result	Actual Result	Status
1	Clicked Add to Cart	User Selects a book and Clicked add to cart button	Book is added to Shopping Cart	Book is added to Shopping Cart	Pass
2	Clicked Add to Cart	Guest Selects a book and Clicked add to cart button	Redirect to Login Page	Shows user to login	Pass

Table 6 : Test Cases for Shopping Cart Page

Test ID	Test Description	Input Test Data	Expected Result	Actual Result	Status
1	Edit Cart	Increased/Decreased the Quantity	Quantity, Subtotal and total amount should be changed	Changed the quantity and amount of Cart	Pass
2	Edit Cart	Deleted a book from cart	Books and total cost should be updated	Removed the book and updated the total cost	Pass
3	Edit Cart	Added a new book to cart	Books and total cost should be updated	Added the book and updated the total cost	Pass

Table 7 : Test Cases for Check out Page

Test ID	Test Description	Input Test Data	Expected Result	Actual Result	Status
1	Checkout	Guest Clicked the checkout button	Redirect to login page	Shown user to login	Pass
2	Checkout	User Clicked the checkout button	Redirect to confirm mailing address page	Shown user to confirm mailing address	Pass

Table 8 : Test Cases for Mailing Address Page

Test ID	Test Description	Input Test Data	Expected Result	Actual Result	Status
1	Enter valid Details	Province, District, Municipality, Ward Number, Street, Contact Number, Payment Method	Redirect to Dashboard	Redirected Successful. Shown Success Message	Pass
2	Enter Incomplete Details	Province, District, Municipality, Ward Number, Street, Contact Number, Payment Method	Error message appeared. Redirect to Mailing Address Page	Error message appeared Redirected to Mailing Address Page	Pass
3	Payment Method	Selected Online Payment	Redirect to Payment Gateway Page	Redirected Successful.	Pass

2. Test Cases for Admin

Table 9 : Test Cases for Manage Books

Test ID	Test Description	Input Test Data	Expected Result	Actual Result	Status
1	Add Books	Clicked add new	Redirect to Book Description page	Redirected Successful	Pass
2	Enter Valid Book Description	Book Title, School, Class, Description, Image, Price, Available Quantity	Book Added successfully. Redirect to manage Books Page	Redirected successful	Pass
3	Invalid Book Description	Book Title, School, Class, Description, Image, Price, Available Quantity	Redirect to Book Description page	Redirected Successful	Pass
4	Edit Book	Clicked edit book	Redirect to Book Description page	Redirected Successful	Pass
5	Delete Book	Clicked delete book	Book removed.	Book removed successfully.	Pass

Table 10 : Test Cases for Manage Schools

Test ID	Test Description	Input Test Data	Expected Result	Actual Result	Status
1	Add School	Clicked add new	Redirect to Add new School page	Redirected Successful	Pass
2	Enter Valid Details	School Name	School Added successfully. Redirect to Manage School Page	Redirected successful	Pass
3	Enter Invalid Details	Null	Redirect to Add new School Page	Redirected Successful	Pass
4	Edit School	Clicked edit school	Redirect to new school page	Redirected Successful	Pass
5	Remove School	Clicked delete School	School removed.	School removed successfully.	Pass

Table 11 : Test Cases for Manage Classes

Test ID	Test Description	Input Test Data	Expected Result	Actual Result	Status
1	Add Class	Clicked add new	Redirect to Add new Class page	Redirected Successful	Pass
2	Enter Valid Details	Class Name, Select School Name	Class Added successfully. Redirect to Manage Class Page	Redirected successful	Pass
3	Invalid Class Description	null	Redirect to Add new Class page	Redirected Successful	Pass
4	Edit Class	Clicked edit class	Redirect to new Class page	Redirected Successful	Pass
5	Remove Class	Clicked delete class	Class removed.	Class removed successfully.	Pass

Table 12 : Test Cases for Manage Order

Test ID	Test Description	Input Test Data	Expected Result	Actual Result	Status
1	Print Order List	Clicked Download button	Downloaded the order list in pdf format	Downloaded Successful	Pass
2	Verify Completion	Clicked complete button	Order removed from list and uploaded to Completed list	Removed and Uploaded successful	Pass
4	Delete Order	Clicked Delete button	Order list should be updated	Removed Successful	Pass
5	Pagination	Clicked page button	Switch order list to next page	Switched successfully.	Pass

Table 13 : Test Cases for Manage Users

Test ID	Test Description	Input Test Data	Expected Result	Actual Result	Status
1	See Details	Clicked View Button	Show user registration details	Shown successful	Pass
2	Block User	Clicked block button	Block the user to login. Change Button value to Unblock	Changed successful	Pass
4	Delete User	Clicked Delete button	User list should be updated	Updated Successful	Pass
5	Pagination	Clicked page button	Switch user list to next page	Switched successfully.	Pass

Table 14 : Test Cases for Manage Discount and Offers

Test ID	Test Description	Input Test Data	Expected Result	Actual Result	Status
1	Add Discount Type	Clicked add new	Redirect to Add new Discount Type page	Redirected Successful	Pass
2	Enter Valid Details	Discount Percent, Select School Name	Discount details Added successfully. Redirect to Manage Discount Page	Redirected successful	Pass
4	Edit Class	Clicked edit button	Redirect to new Discount type page	Redirected Successful	Pass
5	Add Exclusive Offers	Clicked add new	Redirect to Add Exclusive Product page	Redirected successfully.	Pass
6	Enter Valid Details	Select School, Select Class, Description, Price, Offer Price, Available Quantity	Product Added successfully. Redirect to Manage Discount Page	Redirected successful	Pass
7	Invalid Product Description	Select School, Select Class, Description, Price, Offer Price, Available Quantity	Redirect to Add Exclusive Product page	Redirected Successful	Pass

Meeting Reports

MEETING REPORT – 1 ST				
Project Name:	An Internship Report On "Learningo: An E-Commerce Platform" At "Aspiring Tech Pvt. Ltd."			
Date of meeting:	2079-05-10 Time: 10:30 am		10:30 am	
Meeting Facilitator:	Rabin Rimal	Location:	Godawari College	

Meeting Objective:

- Discussion on Preliminary Work
- Topic Analysis
- Discussion on Proposal Writing

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Name	E-mail
Arash Thapa	xettriaarash@gmail.com

Meeting Agenda:

- Detail discussion about Interned company
- Proposal Format Discussion
- Summarize Proposal Content

- Finalize a suitable Internship Topic
- Start to write Internship Proposal
- Detail study about your Interned Project

MEETING REPORT – 2 ND				
Project Name:	An Internship Report On "Learningo: An E-Commerce Platform" At "Aspiring Tech Pvt. Ltd."			
Date of meeting:	2079-05-22 Time: 10:30 am		10:30 am	
Meeting Facilitator:	Rabin Rimal	Location:	Godawari College	

- Discussion on Internship Work
- Review on Proposal
- Preparation of Proposal Defense

2. Attendance:

Name	E-mail	
Arash Thapa	xettriaarash@gmail.com	

3. Meeting Agenda:

- Acceptance of Internship Topic
- Proposal Discussion
- Proposal Presentation Discussion

- Add System Design Diagram as per the Company
- Prepare Proposal Presentation Slides
- Submit the Proposal
- Prepare Yourself for Viva Question and Answer

MEETING REPORT – 3 RD				
Project Name:	An Internship Report On "Learningo: An E-Commerce Platform" At "Aspiring Tech Pvt. Ltd."			
Date of meeting:	2079-06-05	Time:	10:30 am	
Meeting Facilitator:	Rabin Rimal	Location:	Godawari College	

- Discussion on Internship Roles and Responsibility
- Talk about the Project

2. Attendance:

Name	E-mail
Arash Thapa	xettriaarash@gmail.com

3. Meeting Agenda:

- Analysis of Internship Roles and Responsibility
- Project Discussion
- System Design Discussion

- Study the functionality of similar online bookstore project
- Review the Shopping Cart System
- Research on Online Payment Gateway in Nepal

MEETING REPORT – 4 TH				
Project Name:	An Internship Report On "Learningo: An E-Commerce Platform" At "Aspiring Tech Pvt. Ltd."			
Date of meeting:	2079-07-15	Time:	10:30 am	
Meeting Facilitator:	Rabin Rimal	Location:	Godawari College	

- Discussion on Overall Progress
- Review on Errors
- Preparation of Mid-term Defense

2. Attendance:

Name	E-mail
Arash Thapa	xettriaarash@gmail.com

3. Meeting Agenda:

- Internship/Project Progress Discussion
- Mid-term Defense Discussion

- Prepare Presentation Slides for Midterm Defense
- Tabulate the Testing Performed in the System

MEETING REPORT – 5 TH				
Project Name: An Internship Report On "Learningo: An E-Commerce Platform" At "Aspiring Tech Pvt. Ltd."				
Date of meeting:	2079-7-26 Time: 10:30 am			
Meeting Facilitator:	Rabin Rimal	Location:	Godawari College	

- Discussion on overall Task Performed
- Learning Outcomes
- Discussion on Report Writing

2. Attendance:

Name	E-mail
Arash Thapa	xettriaarash@gmail.com

3. Meeting Agenda:

- Detail discussion about activities performed during Internship
- Highlights the Learning Outcomes
- Report Format Discussion
- Summarize Report Content

- Start to write Internship Report
- Detail study about your Interned Project
- Ask Intern mentor for certificate and Assigned Mark-sheet

MEETING REPORT – 6 TH			
Project Name:	An Internship Report On "Learningo: An E-Commerce Platform" At "Aspiring Tech Pvt. Ltd."		
Date of meeting:	2079-08-01	Time:	10:30 am
Meeting Facilitator:	Rabin Rimal	Location:	Godawari College

- Review the Project in Real Server
- Project Report Progress

2. Attendance:

Name	E-mail
Arash Thapa	xettriaarash@gmail.com

3. Meeting Agenda:

- See the Internship Project Sample Hosted in Real Server
- See the Overall Project Report

- Reference Formatting
- Integrate Supervisors Recommendation
- Tabulating the Contact Information
- Include Screenshots of the Project outcomes
- Re-write the report as per commented

MEETING REPORT – 7 TH			
Project Name:	An Internship Report On "Learningo: An E-Commerce Platform" At "Aspiring Tech Pvt. Ltd."		
Date of meeting:	2079-08-06	Time:	10:30 am
Meeting Facilitator:	Rabin Rimal	Location:	Godawari College

- Report Evaluation
- Presentation Preparation

2. Attendance:

Name	E-mail
Arash Thapa	xettriaarash@gmail.com

3. Meeting Agenda:

- Review the Internship Report
- Final Presentation Discussion

- Submit the Report
- Make Hard copy of Report with Black Binding with Golden Embrace
- Make Proposal Presentation Slides
- Prepare Yourself for Internship

Screenshots

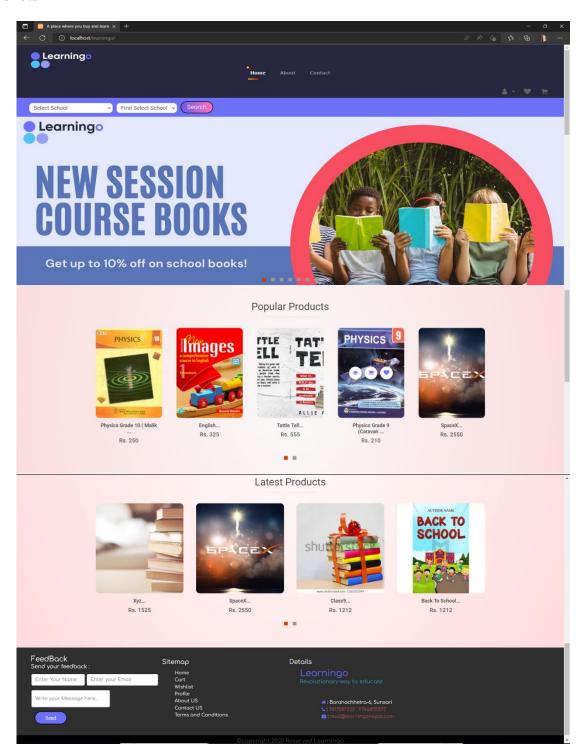


Figure 6: Landing Page of Learningo Website

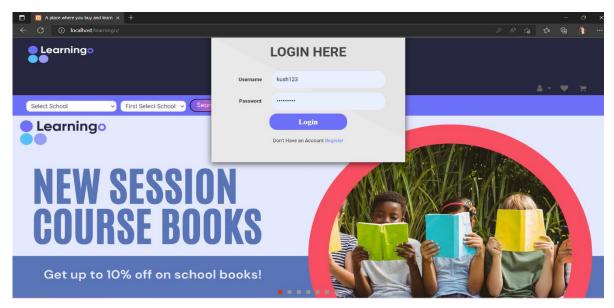


Figure 7: Login Page of Website

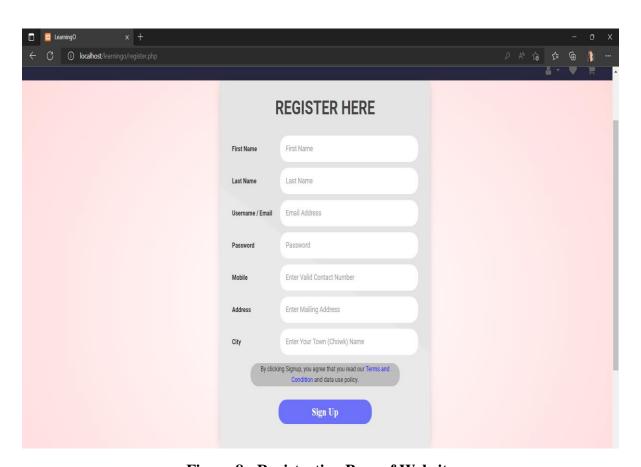


Figure 8: Registration Page of Website

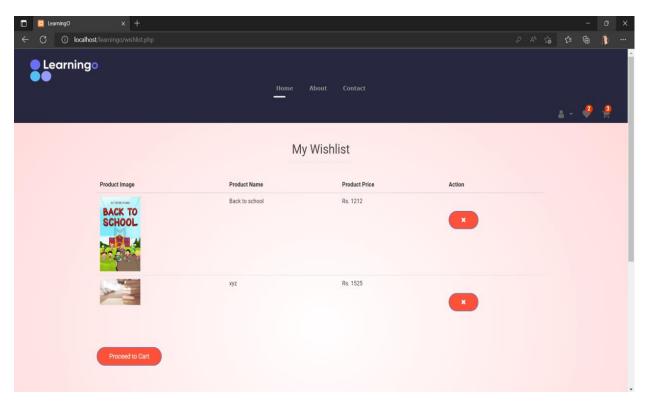


Figure 9: Wishlist Page of Website

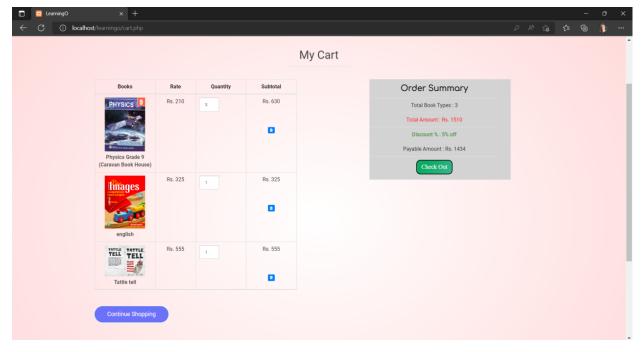


Figure 10: Shopping Cart Page of Website

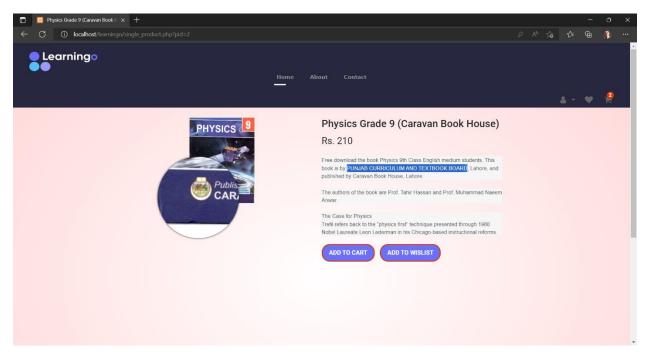


Figure 11 : Book Description Page

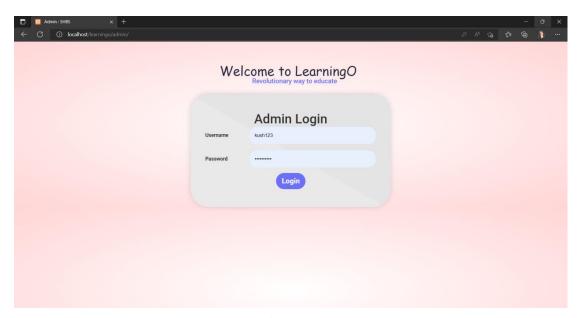


Figure 12: Admin Login Page

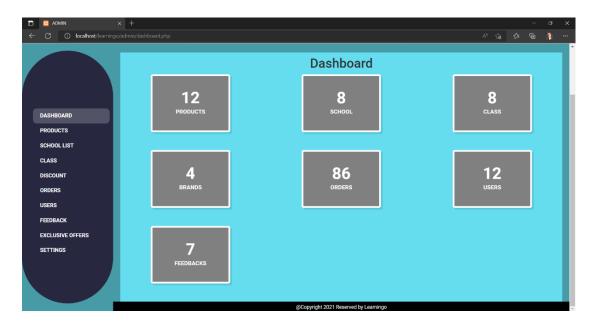


Figure 13: Admin Dashboard

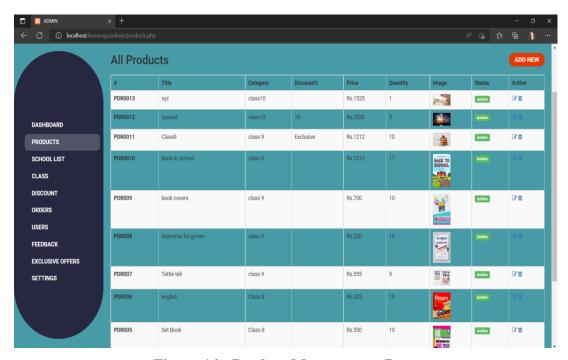


Figure 14: Product Management Page

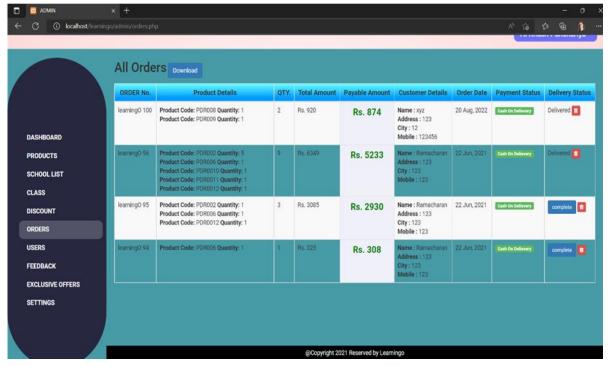


Figure 15: Order Management Page

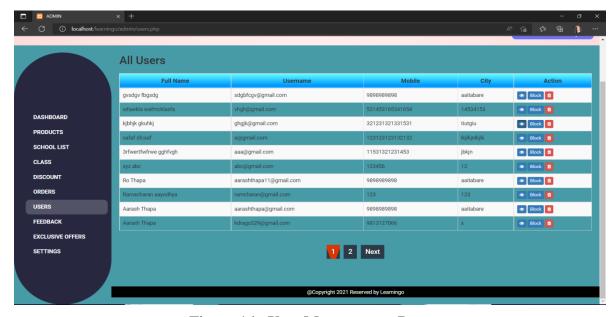


Figure 16: User Management Page