

ONLINE LIBRARY PLATFORM

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of
Bachelor of Science in Computer Science and Engineering.

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APPROVAL

This Project titled **Online library platform**, submitted by Md. Sadiqur Rahman Rifat, ID No:161-15-999, Pronob Kumar Roy, ID No: 161-15-1005 and Sufi Ahmed Hamim , ID No: 161-15-1024 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 26 November 2019.

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Declaration

We hereby declare that this project has been done by us under the supervision of **Dewan Mamun Raza, Lecturer, Department of CSE, Daffodil International University**. We also declare that neither this project nor any part of this project has been submitted elsewhere for the award of any degree or diploma.

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ABSTRACT

The online Library platform is a web-based project. Nowadays our technology is too much developed. Technology is also present in our education system. We are always trying to find a way which is an easy and short time. Books are the main media to get knowledge. The online library site is most useful for readers. Because readers are too smart and they search their necessary book on the internet. Here they can read and download the specific book easily without cost or low cost. So online library sites are most beneficial and popular among the learner. There are lots of online reading book sites in the internet world for reading and download books. They also provide different types of books. But our platform is especially for students and teachers' academical books. We serve academic books and its solutions in a pdf file. Our targeted traffic is all the students of class six to the honors program. We also provide IELTS, GRE necessary practice book. Every student can find their necessary books and solution which is categories by their respective class. If any user wants to sell or buy any old book they can post here, even the user can share his/her book with another user. So, who has a smart device and internet he can easily get his necessary books from our site. In our project, we used HTML, CSS, JavaScript, AngularJS for frontend and php, Laravel for the backend. Now our service is totally free but, in the future, it will pay some money for every download.

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CHAPTER 1: INTRODUCTION

1.1 Introduction

In this age, the web-based system can be used by students easily. They are searching for any type of problem solution on the internet. The online library Platform is a project based on the web. Online Library Platform has a wonderful frontend design and it will help people to easily read or download books from the site. It is more likely a user-friendly site. The site is developed in PHP framework Larval. Our website's user interface is too friendly and the user can easily move here. But when user wants to download any file they must log in with their Gmail. Because, though it is free now, it will be a monthly subscription fee in the future. There are lots of online reading book sites in the internet world for reading and download books. They also provide different types of books. But our platform is especially for students and teachers academic books with wonderful UI. We serve academic books and their solutions in a pdf file. Our targeted traffic is all the students of class 6 to the honors program.

1.2 Objective

There are too many online libraries but our service is totally unique from others. If you visit our site you can see a wonderful UI. When you register here you can download any academic book, free of cost. It will provide you a user-friendly interface and you can easily download this.

- Developing a web-based library that provides all academic books.
- A user-friendly interface & easily download.
- User can shear book with another user.
- Fulfill the demand of readers.
- User can donate books.
- Users can move the site easily because all the content of the site is in Bengali language.

1.3 Motivation

One day I wanted to buy an academic book. But it was too costly and need to go far away. So, I was thinking if the book on the website and I could download it from there. Again, when the teacher suggested different writer books it becomes a big problem at money. Now this time is based on web technology. Any kinds of problems, we search the solution on the google search bar. It is the easiest way to get solutions. Then I was thinking to develop a platform where every student finds their academic books or solution. From this concept, we decided to develop a website where every student can find his/her necessary books.

1.4 Expected Outcome

Technology use in all the sectors, in education also. It will be very necessary for a thirst for knowledge person to get books easily. For those reasons, we developed a site where a user can download a book at pdf file of their conveniently. Our expected outcome of this project is

- Users can easily download books.
- Thirst for knowledge people will improve their knowledge by the site.
- We can Identify which books are most popular in the market.
- No need to go to the library physically and totally free of cost.
- User can buy or sell or donate their old books.
- From monthly subscription we get some revenue.

CHAPTER 2: BACKGROUND ANALYSIS

2.1 Introduction:

An online library platform is a place where the books lover can improve their consciousness by reading books and became a wise person. They can get solution books in a pdf file.

Here we are trying to describe the background activities of our online library platform project. We briefly discuss the programming language, framework, database, challenges, and related works. For the frontend, we use HTML, CSS, JavaScript, angularJS and developed a wonderful UI. For any kind of problem, search on google/youtube. This tutorial helps us to make our projects successfully.

2.2 Related Works:

There are many kinds of online bookselling sites available in our country like bicroy.com, rokomary.com etc. They are not providing any pdf file but sell books to the customers. But the difference is that we are not selling the book but subscription fees and provide downloadable pdf files.

The bn.bdebook.com provides the pdf file but not an academic book. They only provide literature, essays, poems, story type book. There is a government site that provides the textbook only but we can serve the solution also.

Though our project is based on book service related but the idea is totally unique from all others. We can't find any Bangladeshi sites like our project.

2.3 Comparative Studies

When we developing our project, we can learn different types of technology and some statistical information.

They are like this: -

Project Management: An efficient project management is most important to complete a project. Because it ensures the time schedule of project steps. All the events are shared among project members. We try to efficient time management to complete our project.

Database: In our project, we have used the MySQL database in the back-end to store data and fetch data whenever it is necessary. Laravel makes interact with databases extremely simple across a variety of database backends using either raw SQL, the fluent query builder, and the Eloquent ORM. Currently, Laravel supports four databases:

- MySQL 5.6+ (Version Policy)
- PostgreSQL 9.4+ (Version Policy)
- SQLite 3.8.8+
- SQL Server 2017+ (Version Policy)

System analysis: There are too many websites like our project. So we try to unique from others and have more specialty. We used the software engineering method to execute our project.

Development platform: To develop this project we have used HTML, CSS, JavaScript, AngularJS and Laravel framework which is a framework of PHP.

Programming Language: We have used PHP version 7.1, laravel version 6.2 and MySQL 5.7 to implement this project.

2.4 Challenges

Books selection: In our project, our targeted students need many types of books. So firstly we need to select the books which we store in our database. We overcome this problem by a survey among the students.

Copyright issues: For copyright issues, we can't upload any book. So we are trying to deal with the book solution company.

Database: Here many categories and sub-categories. So need to create many table and connection. We categorized by classes and user, admin panel.

Bug: When we were developing our project, we can face a lot of bugs. To solve those bugs, we passed a very tough and frustrating time. Sometimes a simple bug took a whole day to solve. To solve bugs we take help from specific documentation sites, youtube, quora, github etc.

Brainstorming: How have we done this project, which features we add our project, what type of design most user-friendly? We have to brainstorm to solve this problem.

Make a deal: It was the most challenging issue to make a deal with books company. We only get permission to sell old book solutions, at least one year.

Lack of resources: Our project base on Laravel. Sometimes we got an error but not find any solution in google because of lack of resources. Another problem is books, which book suggest at which course students?

CHAPTER 3: REQUIREMENT SPECIFICATION

3.1 Introduction

This chapter represents the specific role of admin and user. It also visualizes who and how this web application is maintained. And to access any user-data what kind of requirement the user must follow. It describes how an admin can enter data by providing his username and password to confirm his identity. It also shows the user can't change any data only they can browse this web application with the help of the use case diagram. Here we briefly describe ER diagram, Use-Case diagram for better understand.

3.2 Overall Description

This web application will have two access one for users and one for admin. Admin will be able to certain privileges to add books. An admin also can update books and user verification task. Another actor is user. Here, user can download books, read book, upload books, sell books, buy books, share or donate books. In the below, it is described in details who can perform which kind of actions.

3.3 ER diagram

ER Diagram refers the relationship of the attribute and it shows the activity of the attributes. Here we show the relationships of entity sets stored in a database. Our object context is book and books information. Those are also known as the properties. Here we work with many kinds of entity and attributes. Oure site is about the book and we try to connect with the activities what we do in the site. Like we buy or sell, Share, donate, borrow books from another user. So, here we show our database connection through the ER diagram.

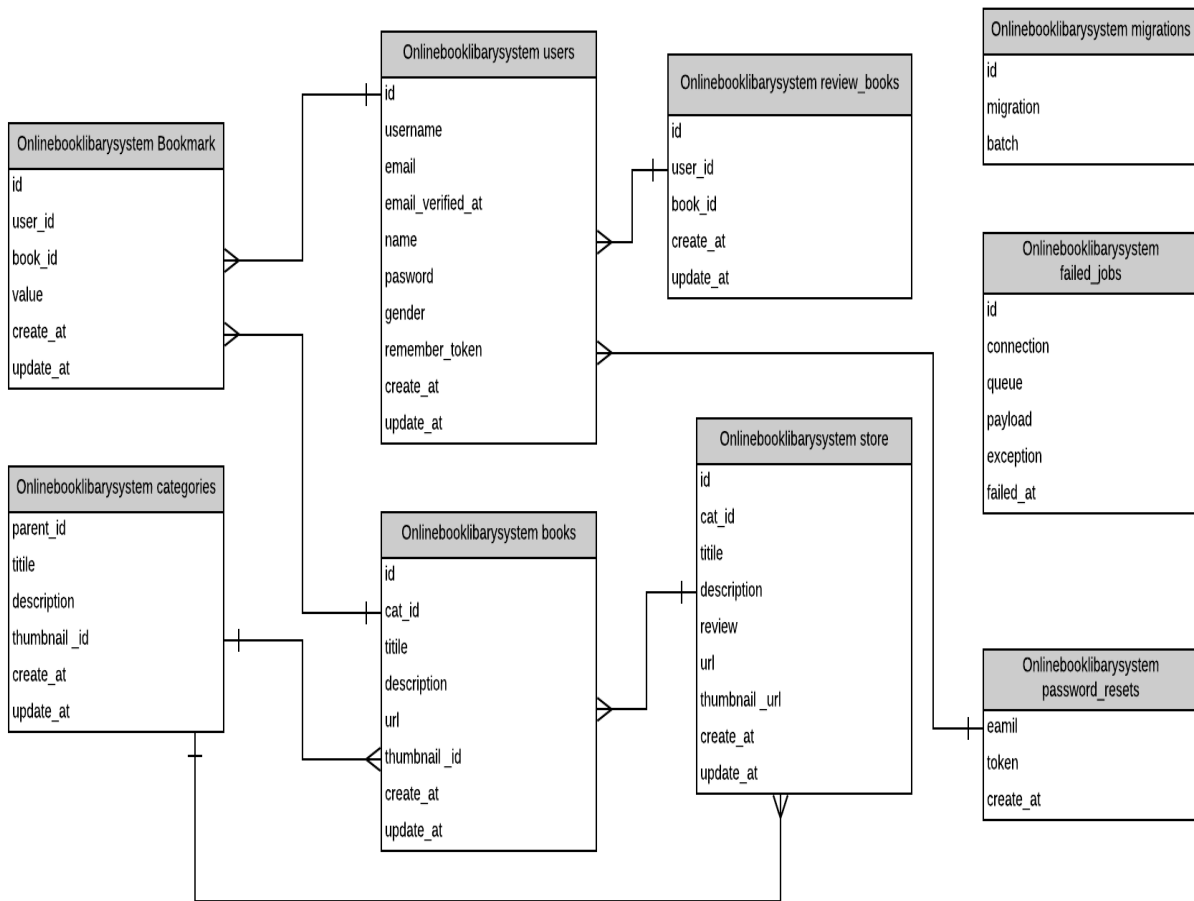


Figure 3.1: ER Diagram Modeling

In our project we freely access to the user. But to get our service user must be login. In our ER diagram we try to show the relationship between entity and attributes. For example, user entity related with reset_password entity. Every entity has relation with another entity or attribute.

3.4 Use Case Modeling and description

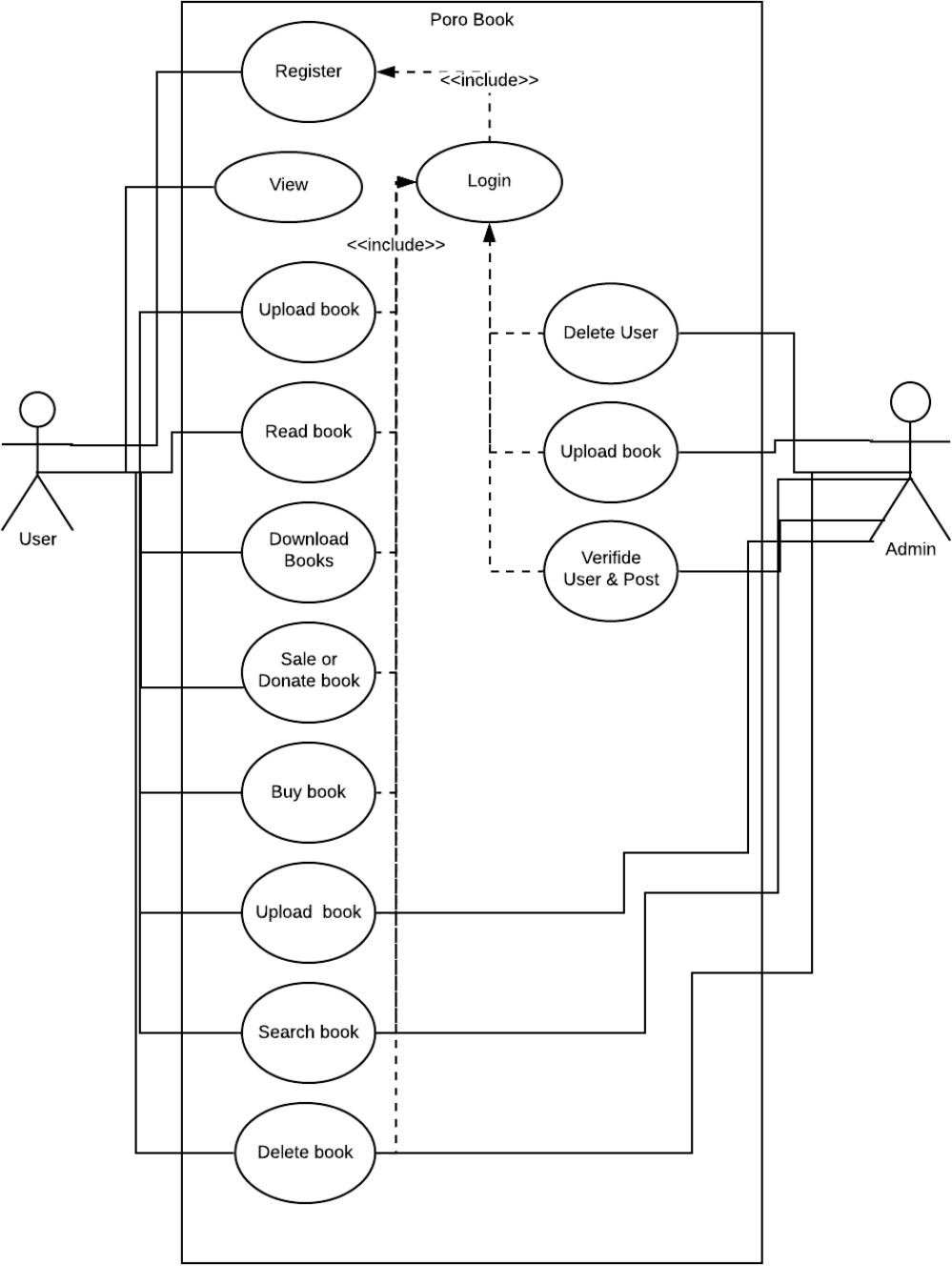


Figure 3.2: Use-case Diagram

Use-case Description:

Use-Case diagram verify the activities of the actor of the online book's platform. Here two types of actors, one is admin who control the system and upload new books another is user who can download his necessary file. Now we describe Use-cases description list:

- Registration
- Long in
- Download
- Delete book
- Read book
- Buy
- Sale
- Shear

Registration Use-Case

Use-case Name	Registration
Actors	User
Description	Registration this system
Pre-Condition	Fill-up requirement when registration
Post Condition	Registered

User-Login Use-Case

Use-Case Name	User-Login
Actor	User
Description	After login the site
Pre-Condition	Fill Up the necessary information of login
Post Condition	Login completed

Admin-Login Use-Case

Use-Case Name	Admin-Login
Actor	Admin
Description	After login the site can access the admin panel
Pre-Condition	Fill Up the necessary information of login
Post Condition	Login completed

Download books Use-Case

Use-Case Name	Download books
Actor	User
Description	User can download file
Pre-Condition	Must be login
Post Condition	Download pdf file

Delete book Use-Case

Use-Case Name	Delete book
Actor	Admin
Description	Admin can delete file
Pre-Condition	Must be login in admin panel
Post Condition	Delete successfully

Read book Use-Case

Use-Case Name	Read book
Actor	User
Description	User can read without download file
Pre-Condition	Login as user
Post Condition	User can see the content of books

Buy Book Use-Case

Use-Case Name	Buy book
Actor	User
Description	User can buy books from another user
Pre-Condition	Login as user
Post Condition	User successfully buy a book

Buy Book Use-Case

Use-Case Name	Buy book
Actor	User
Description	User can buy books from another user
Pre-Condition	Login as user
Post Condition	User successfully buy a book

Sale Book Use-Case

Use-Case Name	Sale book
Actor	User
Description	User can sale books from another user
Pre-Condition	Login as user
Post Condition	User successfully sale a book

CHAPTER 4: SYSTEM DESIGN AND IMPLEMENTATION

4.1 Introduction

In this section, we explain how the user interface (UI) has been designed. User Interface is a space where users can interact with software. From the beginning of the project, we think about the user interface. It should be simple but organized and smooth so that the user can easily move to the application. Here we want to explain the back-end of this application and it's designed and behind the design. Because without a smooth and organized front-end and back-end it is impossible to provide a better service. Back-end always plays an important rule to develop a web application. So it is most important to ensure the organized and proper design.

4.2 Development Methodology

Our proposed online books platform will cover all the academic books. This web application will have two access one for users and one for admin. Users must have to register for download files. When they logged as a user then they can take access to the site. Here admin of the site collects the book as a pdf or zip file and upload them on our application. Every book is organized by their respective classes. Another part for the user. Here user can search respective books. When the want to download the file, there show a popup screen for login if they are not login.

4.2 Website Design

For any kind of website design we use different types of tools and languages. Basically, for web design HTML, CSS and bootstrap frameworks are very common. For our project designing, we use some tools and frameworks like that.

4.2.1 Front-End Design

- HTML
- CSS
- Bootstrap
- JavaScript
- AngularJS

4.2.2 Back-End Design

- PHP
- Larval

4.2.3 Database Design

- MySQL

4.3 Implementation of Front-end Design

In this project we try to wonderful user interface. For this reason, we use bootstrap, AngularJS and JavaScript and make it colorful website.

The designs are shown below: -

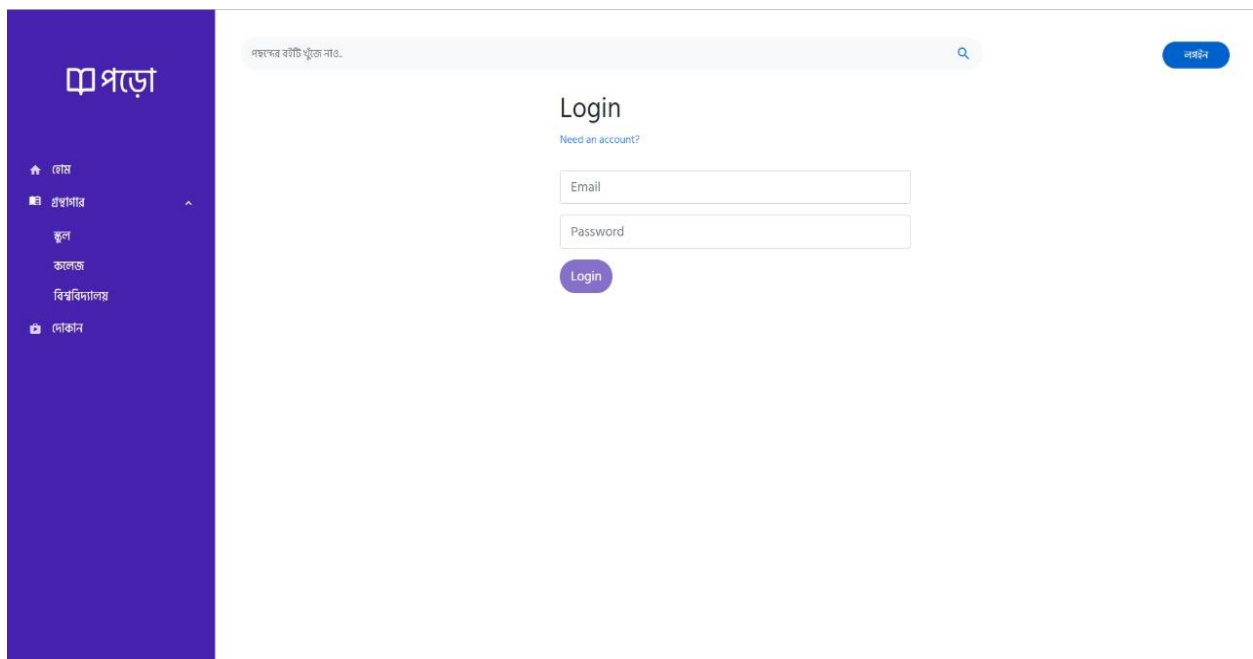


Figure 4.1.1: User login page

Users must login if they need to download the file. For login need to input email and password which is provided when they registered. If anyone is not registered he/she can't login, he/she will register first.

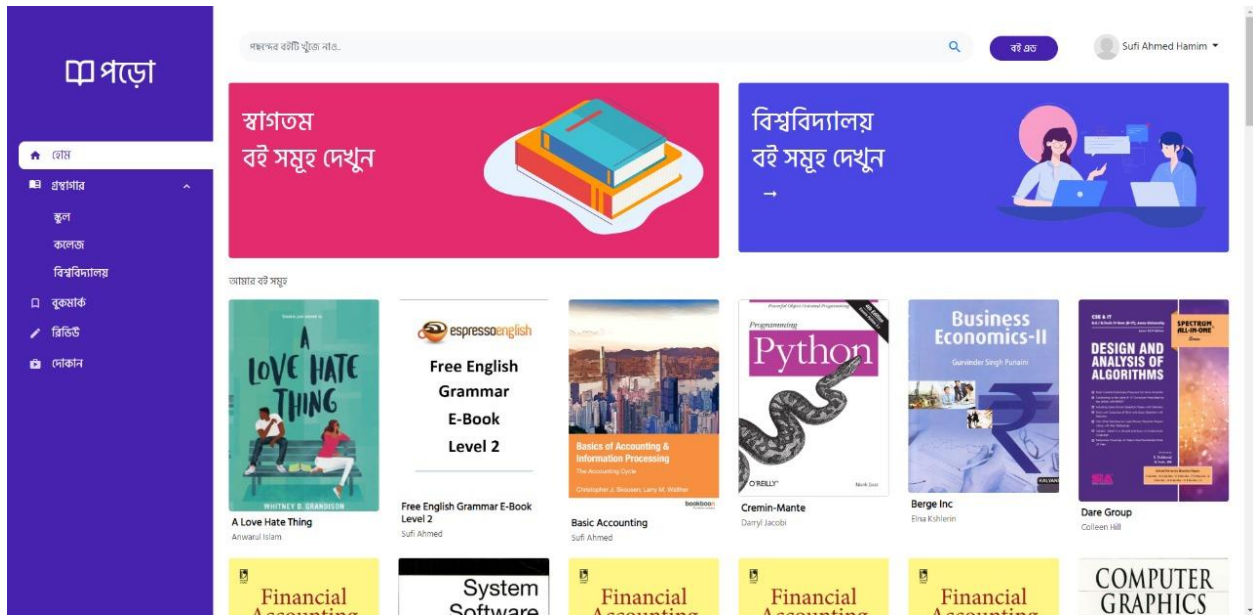


Figure 4.1.2: Interface of home page

It is the home page and every category book are displayed here. User can move site easily but if they are registered and login with email, they get more facilities.

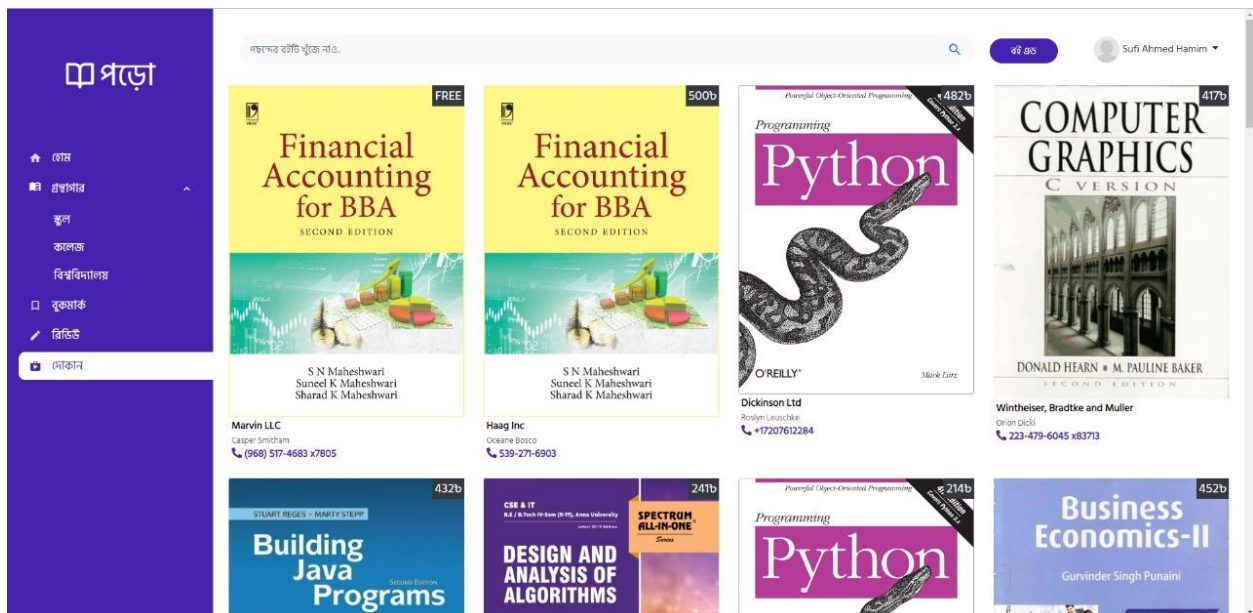


Figure 4.1.3: Store Section

We also provide the facility for book store owner, they can add their books for sell. If any customer buy book through our site, we take some commission. For this we dealing with some book's owner business-man.

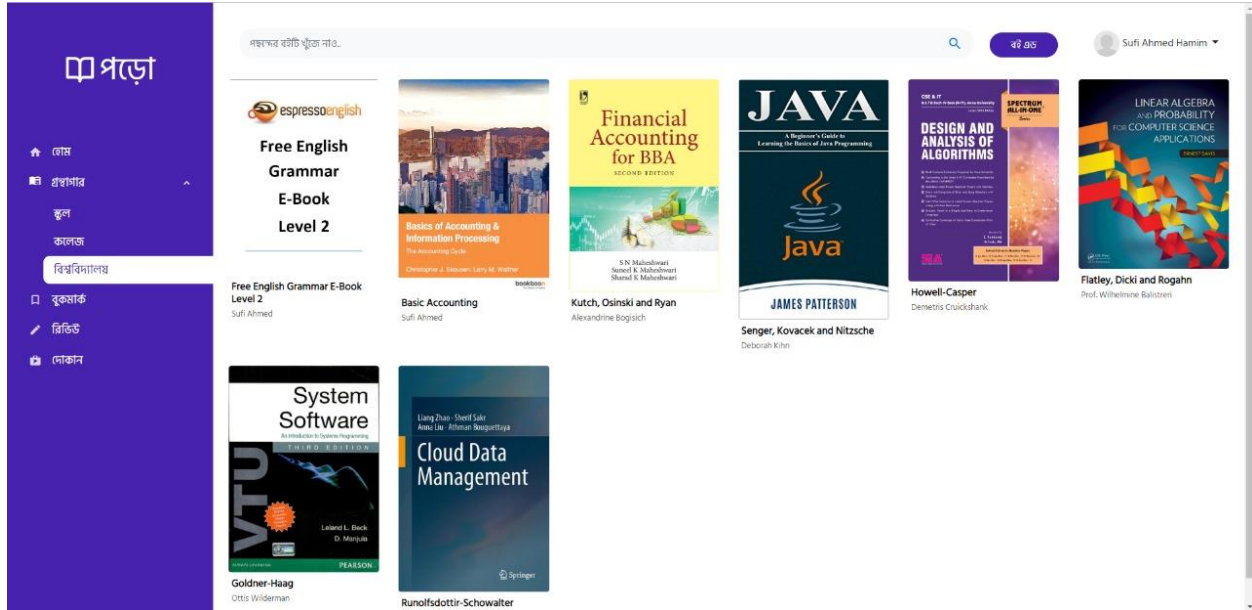


Figure 4.1.4: University books category

This application is more user-friendly and books are categories by School, College, University. So, user can find their book. There is another shortcut process to search on the search bar and it is the easiest way.

4.3 Back-end Design

For the back-end program we can perform data to insert, edit, delete or manipulate into the database. PHP is a server-side language that controls web application without showing the complexity to the user. A user only can see the front-end and back-end is mainly give front-end functionality. Without the back-end, front-end can't be functional.

4.3.1 Laravel

The Laravel framework is based on PHP. Generally, it is used to deploy web applications, design and maintenance. It is not like as another framework, it works a little bit differently. Instead of Model View Controller (MVC) architecture, it uses Model Template View (MTV). It has an Object Relational Mapper (ORM) that connects data models and relational database. By defining a class in book.php, category.php, shop.php, bookmark.php they create a field in a database. In Laravel for each table need to create a different model. In the Blade template directory user interface designed to interact with the user. Blade templating only view backend admin maintain. Blade view files use the .blade.php file extension and are typically stored in the resources/views directory. PHP is a very human-readable and easy programming language. It makes very easy to make a website with Laravel and maintains.

Laravel removes all the complexity to design, deploy and maintain a website. So, it is very much possible to design a website and deploy it within a short time period with the help of Laravel which is not possible for another framework like Laravel. It's also a database-driven web framework that means while developing, developers don't need to take a headache about the database, because Laravel comes with a built-in database called SQLite and it's very easy to connect any database like MySQL, PostgreSQL. Laravel also ensure the security of site, because of its

Because of all this advantage and flexibility, this project is completed by Laravel. The Laravel ensure implementing authentication very easily. Almost everything is configured for you out of the box. config/auth.php is the location of the authentication configuration file, that contains several well-documented options for tweaking the behavior of the authentication services. By using this framework it's become very easy and stress-free to design, deploy and maintain a website.

Admin panel:

The image shows a web application interface for an admin panel. On the left is a dark sidebar with the 'PORO' logo at the top, followed by 'Dashboard', 'CREATE', and a back arrow. The main content area is light blue and contains a 'Login' form. The form has two input fields: 'E-Mail Address' and 'Password'. Below these is a checkbox labeled 'Remember Me'. At the bottom of the form are a blue 'Login' button and a link for 'Forgot Your Password?'. In the top right corner of the page, there are links for 'Login' and 'Register'. At the bottom center, the text 'Copyright © PORO Website 2019' is visible.

Figure 4.2.1: Admin login page

Admin login form of our project. Admin must be login with their respective email and password. If any information is incorrect then it shows an error to logging in. After login admin can access to perform administration work. Like upload books, approve the user post etc. So, admin must be login with admin username and admin password.

Now we show, how admin can upload the new book on the site. For this admin must be login with their respective password and user name.

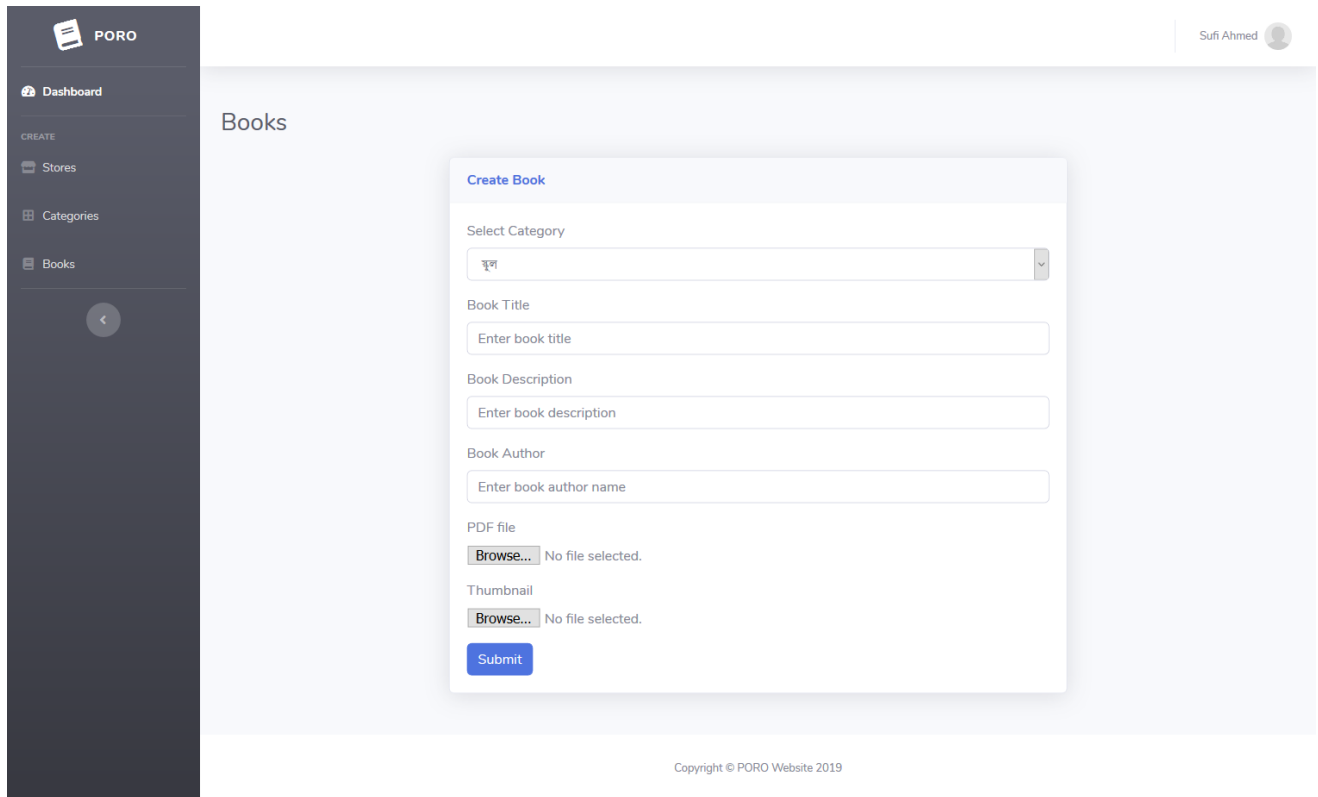


Figure 4.2.2: books upload page

Here only admin can upload book at pdf file with book name, category, description and book author. Then select pdf and thumbnail from the admin computer. If the given information is correct, click on the submit button, it will be submitted and uploaded successfully. So, it very easy to upload a file.

Now we show, how admin can update category of book on the site. For this admin must be login with their respective password and user name. Firstly, admin create a pdf file and a thumbnail of books. Than, book is ready for upload.

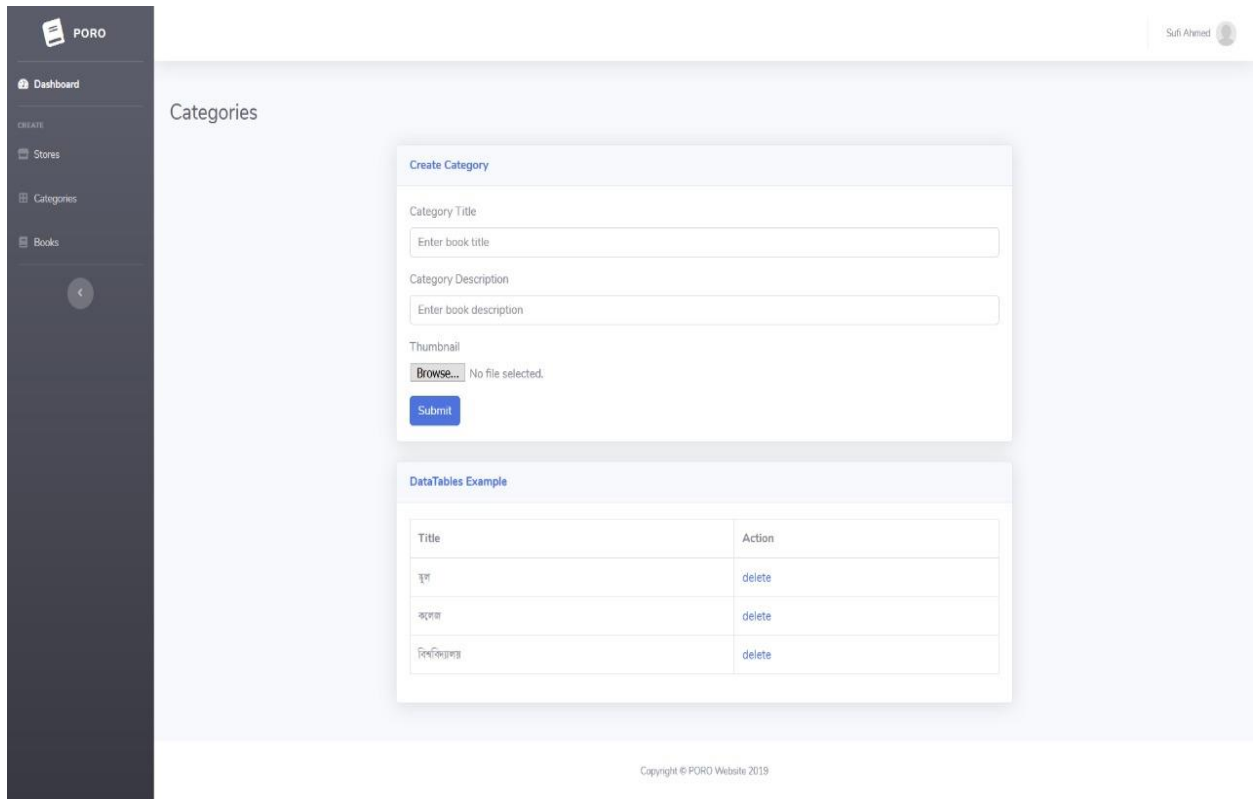


Figure 4.2.3: books category setup page

Admin add books respective category. We need to set the category first and then admin can find the category. Categories are added by category description that is why admin can understand the category meaning. Only admin can add category of books. If admin need to create a new category than admin go to the create new category tab. After admin fill up the category title and description.

4.4 Implementation of Database

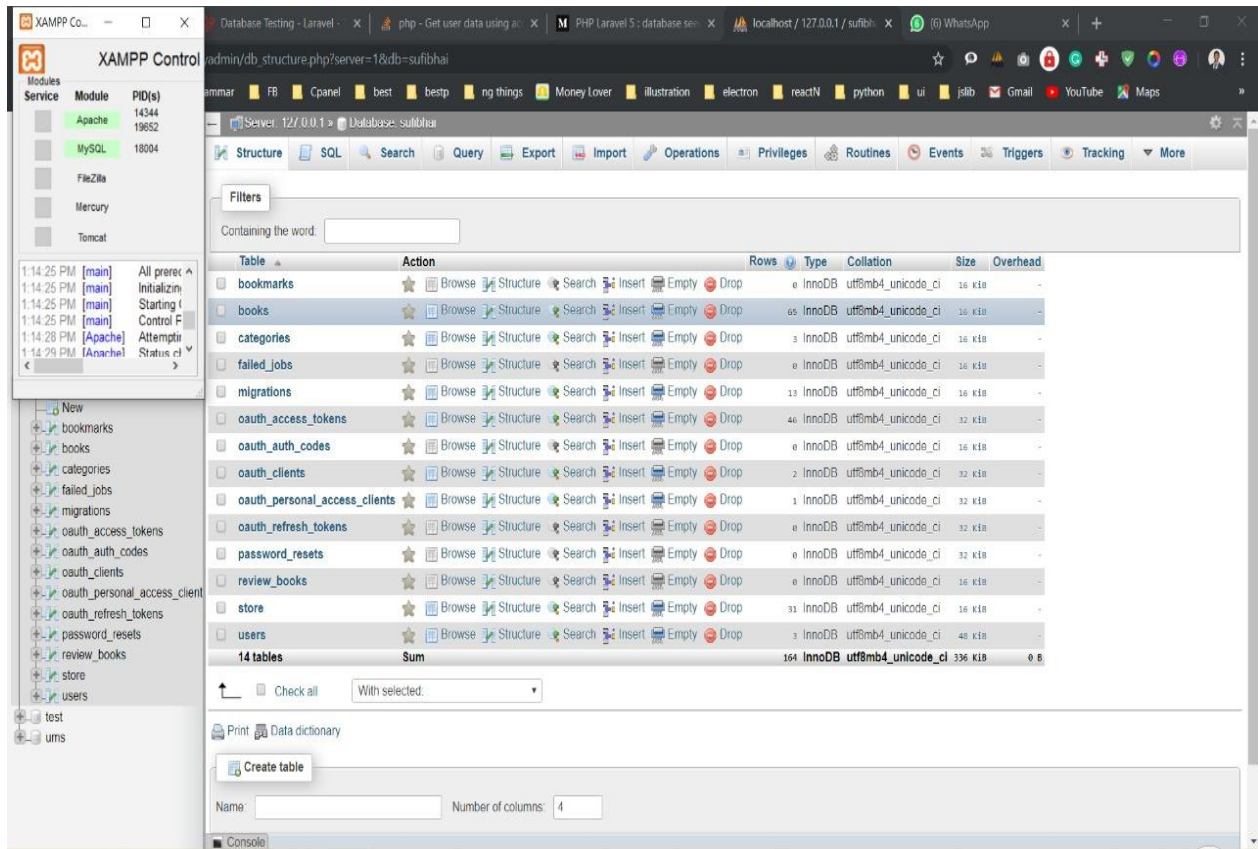


Figure 4.3.1: Database of online books platform

MySQL server is used this project to store the data. For connecting with database and front-end this site is using Bootstrap. For back-end we use Laravel that is PHP framework and easy to connect with database.

CHAPTER 5: TESTING AND DISCUSSION

5.1 Introduction

The testing of software is the most important when we develop new software. There are many ways to testing that software. In this section, we try to show how we store the user's data in the database. We also visualize how front-end takes data and how back-end stores it in the database.

Software testing is a method that is checked if the actual results similar to the expected results and it also ensures ensure that the software system is flaw-free.

5.2 Usability Testing:

Usability Testing is a way to check how smoothly or easily use something which is testing by real users. We developed a web application and testing the usability of our application. Our site is dynamic and simple. So, it is easy to move in this site. Anyone can easily browse this website.

5.3 Unit Test

In this testing method, each section of web application is tested separately. It's a process to verify each part works individually. The unit test, isolate each part of the program and show that the individual parts are correct. By applying unit test bug can be fixed early phase in development.

5.4 System Test

System test is a level of software testing where a complete and integrated software is tested. The main purpose of System testing is to evaluate the system's compliance with the specified requirements. System test is performed on a complete, integrated system to evaluate the system completely. It's a testing where total system is evaluated fully.

CHAPTER 6: CONCLUSION AND FUTURE SCOPE

6.1 Introduction

This chapter we briefly discuss about the future scope for the development of this web application and the conclusion. This project not only a project it also a dream of us. For the limitation of time, we can't show our whole thinking. Only 50% we complete of our dream. In future we research more and learn more about business strategy. So, we have too much future scope for this online library project.

6.3 Future Developments

Nothing is perfect in this world, so we think our project has some limitations. And maybe it is possible to work with this project in the future. We developed this project only for students and teachers but it can be extended for all class people all over this country. If it can be implemented at all the universities in Bangladesh it can be very helpful for the students, researcher and teachers that they can easily get books online. In the future we extant our project by adding a new future.

6.2 Conclusion

The reason behind this project's idea is to come from our daily facing problem. When we need a textbook and money is the main problem to buy this book, then we search for the solution how can we solve this problem. Finlay, we developed a web-based application for getting books easily. Though some time we get some error at code we successfully solve them. Hope that we implement a useful application.

There are not any kinds of the website in our country which provides pdf files. So, it is a great opportunity to make our website popular.

REFERENCES

- [1] ER Diagram https://www.lucidchart.com/documents/edit/1a216b3a-f5f8-46f4-8244-527d04032e94/0_0 [last accessed on 24 th November 2019]
- [2] Use-case https://www.lucidchart.com/documents/edit/86bb686d-172e-4373-917b-c25ee79785bd/0_0?shared=true [last accessed on 20 th November 2019]
- [3] Laravel: <https://laravel.com/docs/6.x> [last accessed on 23 th November 2019]
- [4] Front End <https://getbootstrap.com/docs/4.3/getting-started/introduction/> [last accessed on 20th November 2019]
- [5] site idea: <https://www.rokomari.com/book> [last accessed on 20 th November 2019]
- [6] Collect pdf book <https://www.admissionwar.com/> [last accessed on 22 th November 2019]
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http://www.ebook.gov.bd/page.php?section=general&class=1&fbclid=IwAR2nt_msVYNVnljMFeDQTBk7g3WZx2oihotHQd-crosafk5fDVwNSnPMSzs [last accessed on 15th November 2019]

APPENDICES

HTML, CSS, BOOTSTRAP, JavaScript, AngularJS

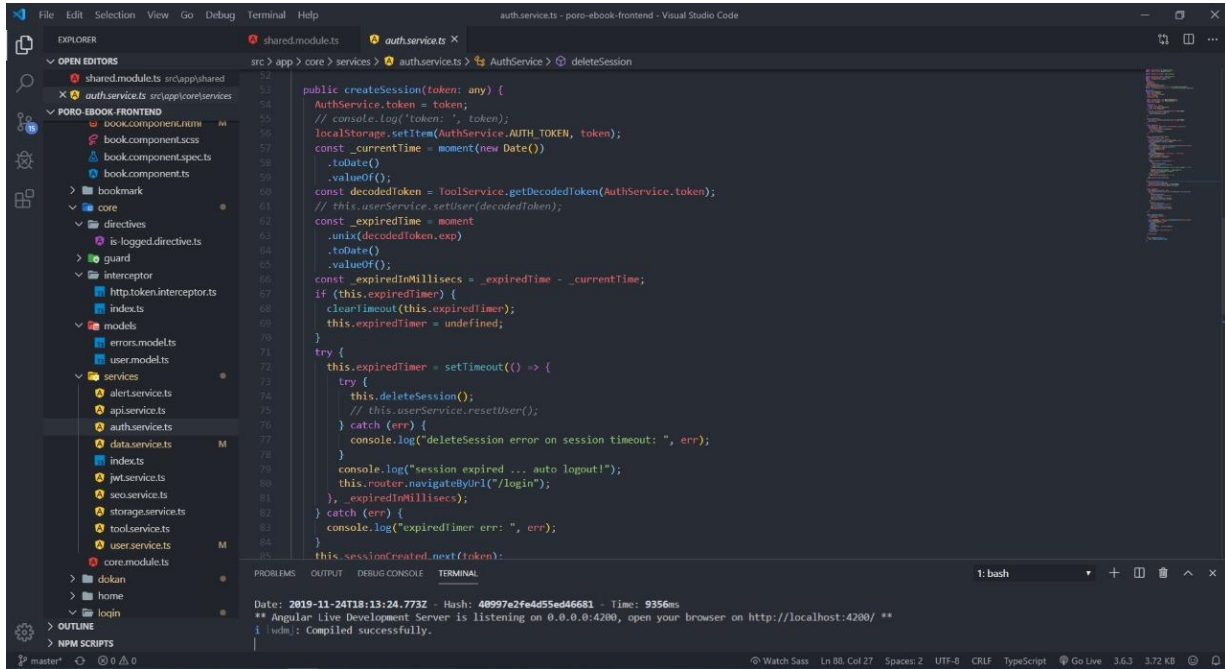


Figure 7.1: Frontend design coding

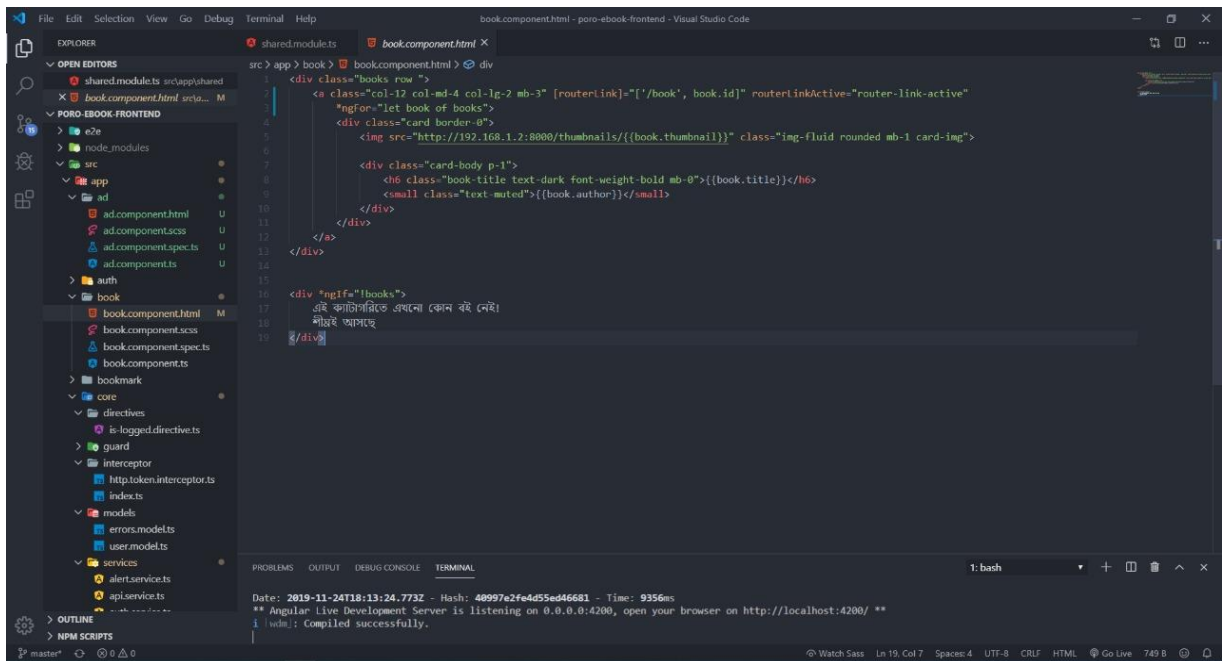


Figure 7.2 : Frontend design coding

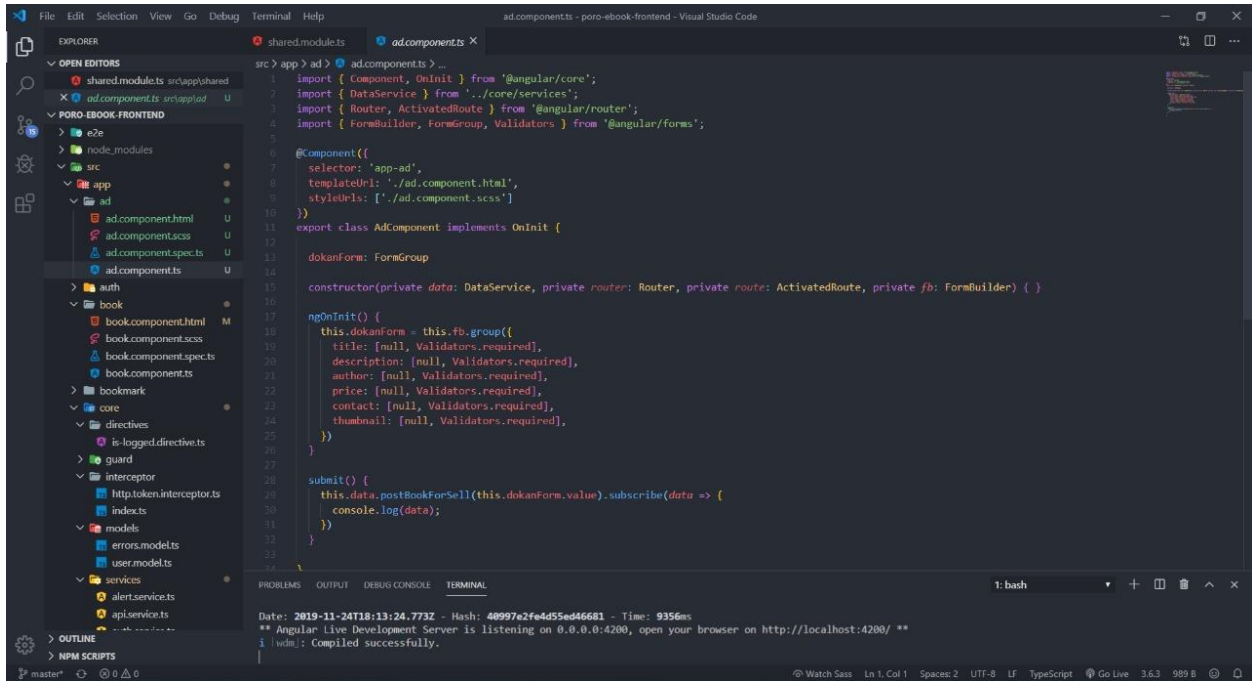


Figure 7.3: Frontend design coding

MySQL Database

The screenshot shows the MySQL Enterprise Workbench interface. The 'Structure' tab is active, displaying a list of tables in a database. The table list includes columns for Table, Action, Rows, Type, Collation, Size, and Overhead.

Table	Action	Rows	Type	Collation	Size	Overhead
bookmarks	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16 KiB	-
books	Browse Structure Search Insert Empty Drop	65	InnoDB	utf8mb4_unicode_ci	16 KiB	-
categories	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_unicode_ci	16 KiB	-
failed_jobs	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16 KiB	-
migrations	Browse Structure Search Insert Empty Drop	13	InnoDB	utf8mb4_unicode_ci	16 KiB	-
oauth_access_tokens	Browse Structure Search Insert Empty Drop	46	InnoDB	utf8mb4_unicode_ci	32 KiB	-
oauth_auth_codes	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16 KiB	-
oauth_clients	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_unicode_ci	32 KiB	-
oauth_personal_access_clients	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_unicode_ci	32 KiB	-
oauth_refresh_tokens	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32 KiB	-
password_resets	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32 KiB	-
review_books	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16 KiB	-
store	Browse Structure Search Insert Empty Drop	31	InnoDB	utf8mb4_unicode_ci	16 KiB	-
users	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_unicode_ci	48 KiB	-
14 tables	Sum	164	InnoDB	utf8mb4_unicode_ci	336 KiB	0 B

Figure 7.4: MySQL Database store data

