


Project Case	
COMP6681001 Web Programming	
Computer Science	O222-COMP6681-BD04-00
<i>Valid on Odd Semester Year 2021/2022</i>	Revision 00

1. Seluruh kelompok tidak diperkenankan untuk:

The whole group is not allowed to:

- Melihat sebagian atau seluruh proyek kelompok lain,
Seeing a part or the whole project from another groups
- Menyadur sebagian maupun seluruh proyek dari buku,
Adapted a part or the whole project from the book
- Mendownload sebagian maupun seluruh proyek dari internet,
Downloading a part or the whole project from the internet,
- Mengerjakan soal yang tidak sesuai dengan tema yang ada di soal proyek,
Working with another theme which is not in accordance with the existing theme in the matter of the project,
- Melakukan tindakan kecurangan lainnya,
Committing other dishonest actions,
- Secara sengaja maupun tidak sengaja melakukan segala tindakan kelalaian yang menyebabkan hasil karyanya berhasil dicontek oleh orang lain / kelompok lain.
Accidentally or intentionally conduct any failure action that cause the results of the project was copied by someone else / other groups.

2. Jika kelompok terbukti melakukan tindakan seperti yang dijelaskan butir 1 di atas, maka **nilai kelompok** yang melakukan kecurangan (menyontek maupun dicontek) akan di – **NOL** – kan.

If the group is proved to the actions described in point 1 above, the score of the group which committed dishonest acts (cheating or being cheated) will be “Zero”

3. Perhatikan jadwal pengumpulan proyek, segala jenis pengumpulan proyek di luar jadwal tidak dilayani.

Pay attention to the submission schedule for the project, all kinds of submission outside the project schedule will not be accepted

4. Bila Anda tidak membaca peraturan ini, maka Anda dianggap telah membaca dan menyetujuinya

If you have missed to read these regulations, so you are considered to have read and agreed on it

5. Persentase penilaian untuk matakuliah ini adalah sebagai berikut:

Marking percentage for this subject is described as follows:

Tugas Mandiri <i>Assignment</i>	Proyek <i>Project</i>
40%	60%

6. Software yang digunakan pada matakuliah ini adalah sebagai berikut:

Software will be used in this subject are described as follows:

Software <i>Software</i>
<ul style="list-style-type: none">• Visual Studio Code• Three JS• Chrome / Firefox / Microsoft Edge

7. Ekstensi file yang harus disertakan dalam pengumpulan tugas mandiri dan proyek untuk matakuliah ini adalah sebagai berikut:

File extensions should be included in assignment and project collection for this subject are described as follows:

Tugas Mandiri <i>Assignment</i>	Proyek <i>Project</i>
HTML, CSS, JS, Image Files (JPG / PNG), GLB	HTML, CSS, JS, Image Files (JPG / PNG), GLB

General Provisions:

- Use **MySQL** as database and must using **Laravel Migration** features.
- **All file upload** feature such as image and document must be **stored to server storage**.
- Use PHP Framework **Laravel 8** to build the project.
- Use Laravel **MVC** concept (**Model, View, Controller**) to build the project.
- Use **Eloquent Query / Query Builder** to work with database.
- You are free to design your own database table **based on given requirements**.
- Print screen given below is only an example. You are free to create your own user interfaces.
- It is **prohibited** to install any kind of Laravel packages. You must use fresh installation of **Laravel 8**. Laravel UI package is allowed for authentication.
- Only **validation** in the **backend** (using Laravel) will be graded.

Soal*Case***Book Store**

Book Store is one of the most popular bookstores in Japan. This bookstore sells more than 100 types of book all over the world, and now the owner of Book Store wants to open a new branch in Indonesia. To handle all the transactions, the owner needs a website and some employees as the admin.

As a web developer, you are assigned to create the website using **Laravel 8 framework**. There are three roles in this website: **Admin, Member, and Guest (non-logged-in user)**. Each page will show a **greeting message** (for the **logged-in user only**), and the **current date and time**. You need to build this website based on the following criteria:

1. Login Page

Validate only **guest** can access this page. In this page, **guest** can login using **email** and **password** that are registered on the website **database**. If the user checks the “**Remember Me**” checkbox, the website will remember the user using **cookie** for **7 days**. After success login, redirect user to **Home Page**. The following table shows the existing fields on this page and the validation for each field:

Field	Information
Email	Must be filled with email validation
Password	Must be filled

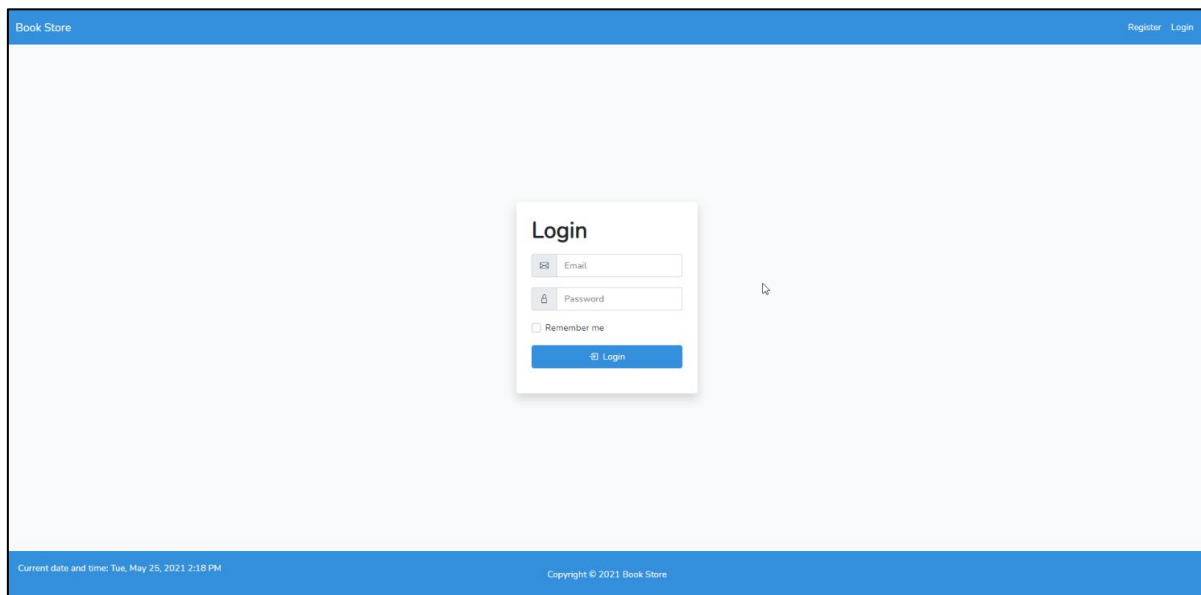


Figure 1. Login Page

2. Register Page

Validate only **guest** can access this page. In this page, **guest** can **register** an account to login to the website. Display an **error message** if user input incorrect personal data. After success register, redirect user to **Home Page**. The following table shows the existing fields on this page and the validation for each field:

Field	Information
Email	Must be filled with email validation and unique
Full Name	Must be filled
Password	Must be filled with minimum 8 characters length
Confirm Password	Must be filled and same with password

Figure 2. Register Page

3. Home Page

This page is accessible for **all users**. In this page, the user can **view all** the **books** that all sold at the website. The user can **search** the books by **Book's Name** using the provided **input** and reset the view by press the '**Clear Filter**' button. The shown books are **paginated** with **5 books** shown **each page**. The book's information that shown are **Book's Cover**, **Book's Name**, **Book's Author**, and **Book's Price**. When the user clicks **View Detail** button, the user will be redirected to **Book Details** page. When the user click

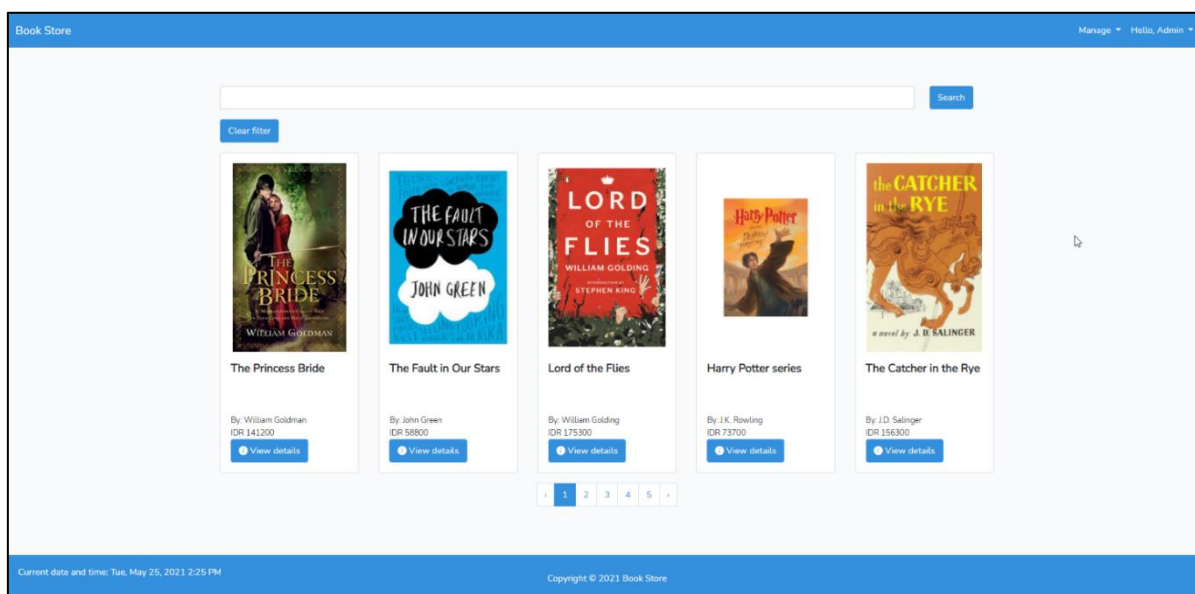


Figure 3. Home Page (Admin)

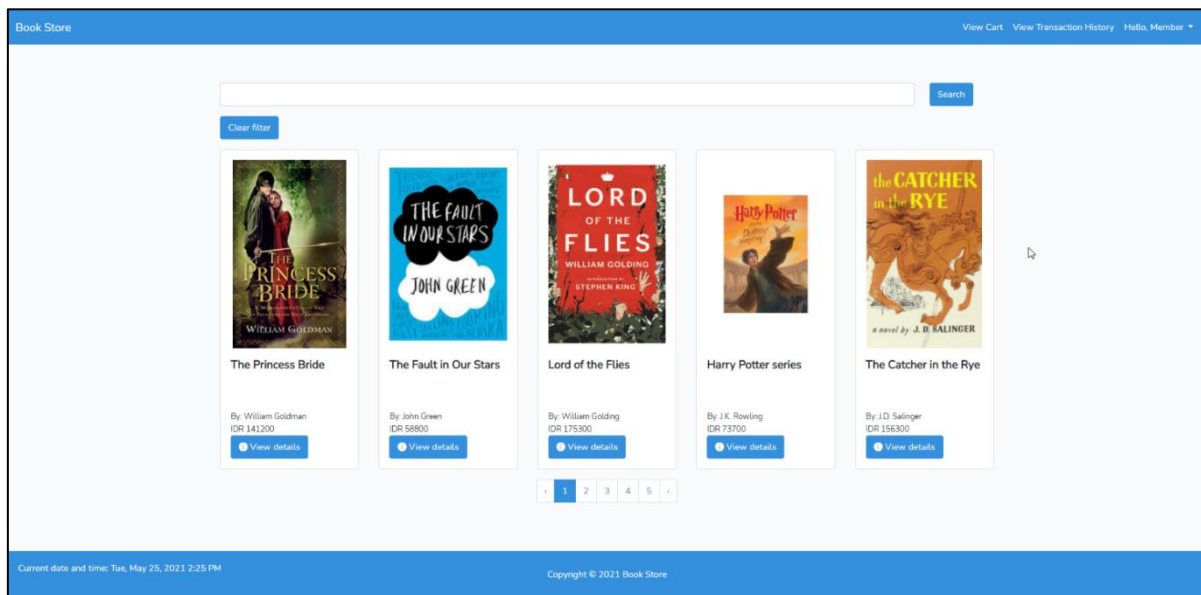


Figure 4. Home Page (Member)

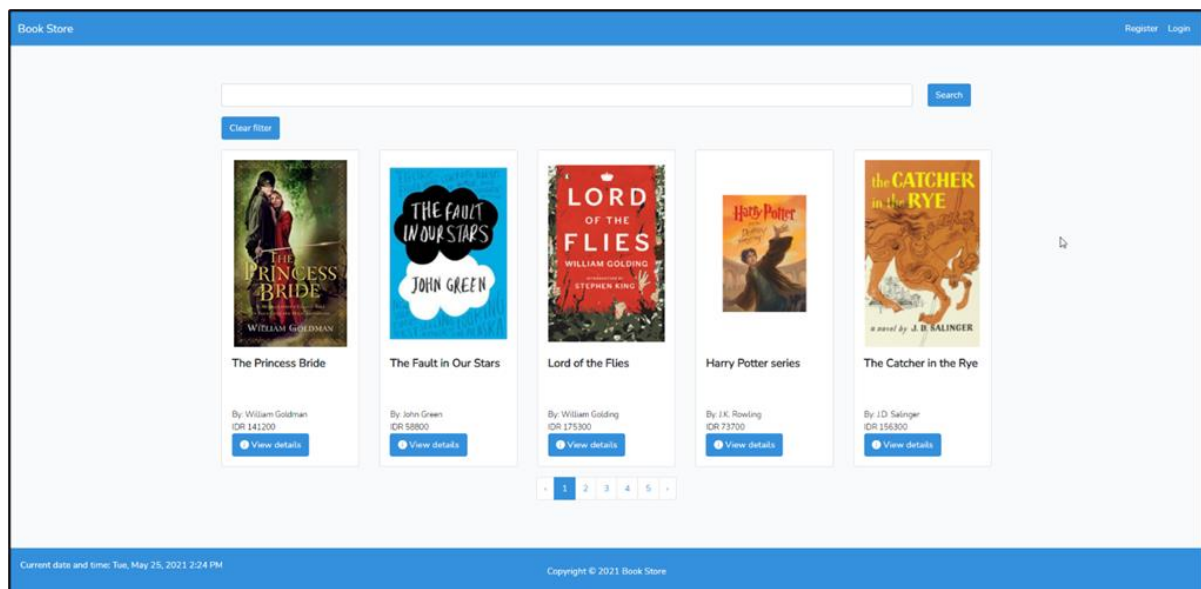


Figure 5. Home Page (Guest)

4. Manage Books Page

Validate only **admin** can access this page. In this page the **admin** can **manage all books** on the website. When the **admin** clicks **View Detail button**, the **admin** will be redirected to **Book Details page**. There is a **form** for inserting the book information. When **admin** clicks delete button, delete selected book from database. The following table shows the existing fields on this page and the validation for each field:

Field	Information
Name	Must be filled

Author	Must be filled
Synopsis	Must be filled
Genres	Must be chosen and exists in the database
Cover	Must be uploaded and must be an image
Price	Must be filled and integer

The screenshot shows a web application titled 'Book Store'. At the top right, there are links for 'Manage', 'Hello, Admin', and a dropdown arrow. The main content area is titled 'Insert Book Form' and contains several input fields: 'Name', 'Author', 'Synopsis', 'Price', and 'Cover'. Below these fields is a grid of checkboxes for selecting genres: Horror, Drama, Graphic novel, Anthology, Mystery, Romance, Novel, Young-adult fiction, Action and adventure, Fiction, Coming-of-age, Crime, Comic book, Science fiction, Fairy tale, Fantasy, Poetry, and Thriller. There are also buttons for 'Choose File' and 'No file chosen' next to the 'Cover' field. Below the form is a table listing existing books with columns for Name, Author, Synopsis, Genre, Price, and Action.

Name	Author	Synopsis	Genre	Price	Action
The Princess Bride	William Goldman	This tale of a handsome farm boy who, aided by...	Action and adventure, Fantasy, Romance	IDR 141200	View Detail Delete
The Fault in Our Stars	John Green	Despite the tumor-shrinking medical miracle it...	Young-adult fiction	IDR 58800	View Detail Delete
Lord of the Flies	William Golding	The classic study of human nature depicts the...	Novel, Young-adult fiction	IDR 171300	View Detail Delete
Harry Potter series	J.K. Rowling	The adventures of Harry Potter, the Boy Who L...	Drama, Mystery, Thriller	IDR 73700	View Detail Delete
The Catcher in the Rye	J.D. Salinger	With the author's death, the crown jewel of...	Coming-of-age	IDR 150200	View Detail Delete

Figure 6. Manage Books Page

5. Book Details Page

This page is accessible for **all users**. In this page, **guest** can only view the **book details**. **admin** can **update** the book's information. Make sure that **each field** is filled by the **book information**. The following table shows the existing fields on this page and the validation for each field:

Field	Information
Name	Must be filled
Author	Must be filled
Synopsis	Must be filled
Genres	Must be chosen and exists in the database
Cover	Sometimes required and must be an image
Price	Must be filled and integer

Book Store

Manage • Hello, Admin

Harry Potter series's Book Detail

Name: Harry Potter series

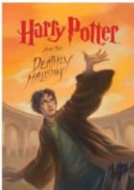
Author: J.K. Rowling

Synopsis: The adventures of Harry Potter, the Boy Who Lived, and his wand-wielding friends at the Hogwarts School of Witchcraft and Wizardry. Harry, Ron and Hermione must master their craft and battle the machinations of the evil wizard Voldemort and his Death Eaters.

Genre(s):

- ☐ Horror
- ☒ Drama
- ☐ Graphic novel
- ☐ Anthology
- ☐ Mystery
- ☐ Romance
- ☐ Novel
- ☐ Young-adult fiction
- ☐ Action and adventure
- ☐ Fiction
- ☐ Coming-of-age
- ☐ Crime
- ☐ Comic book
- ☐ Science fiction
- ☐ Fairytale
- ☐ Fantasy
- ☐ Poetry
- ☒ Thriller

Price: 73700

Cover:  Choose File No file chosen

Update

Current date and time: Tue, May 25, 2021 2:34 PM

Copyright © 2021 Book Store

Figure 7. Book Details Page (Admin)

In this page, the **member** can add the book to the cart. The member must input the **quantity** of the book to be inserted to the cart. The **quantity** must be **integer** and **must be 1 or more**.

Book Store

View Cart • View Transaction History • Hello, Member

Harry Potter series's Book Detail

Name: Harry Potter series

Author: J.K. Rowling

Synopsis: The adventures of Harry Potter, the Boy Who Lived, and his wand-wielding friends at the Hogwarts School of Witchcraft and Wizardry. Harry, Ron and Hermione must master their craft and battle the machinations of the evil wizard Voldemort and his Death Eaters.

Genre(s): Drama, Mystery, Thriller

Price: IDR 73700

Quantity: 1

Add to Cart

Figure 8. Book Details Page (Member)

Book Store

Register • Login

Harry Potter series's Book Detail

Name: Harry Potter series

Author: J.K. Rowling

Synopsis: The adventures of Harry Potter, the Boy Who Lived, and his wand-wielding friends at the Hogwarts School of Witchcraft and Wizardry. Harry, Ron and Hermione must master their craft and battle the machinations of the evil wizard Voldemort and his Death Eaters.

Genre(s): Drama, Mystery, Thriller

Price: IDR 73700

Figure 9. Book Details Page (Guest)

6. Manage Genre Page

Validate only **admin** can access this page. In this page the **admin** can **manage all genres** on the website. The **admin** can view the details page by clicking the **View Details** button. There is a **form** for inserting the genre. When **admin** clicks delete button, delete selected genre from database. The following table shows the existing fields on this page and the validation for each field:

Field	Information
Name	Must be filled and unique

Name	Action
Horror	View Detail Delete
Novel	View Detail Delete
Comic book	View Detail Delete
Drama	View Detail Delete
Young-adult fiction	View Detail Delete
Science fiction	View Detail Delete
Graphic novel	View Detail Delete
Action and adventure	View Detail Delete
Biographies	View Detail Delete

Figure 10. Manage Genre Page

7. Genre Detail Page

Validate only **admin** can access this page. In this page **admin** can **update** the genre. This page will **show all books** from the genre. Make sure that **each field** is filled by the **genre information**. The following table shows the existing fields on this page and the validation for each field:

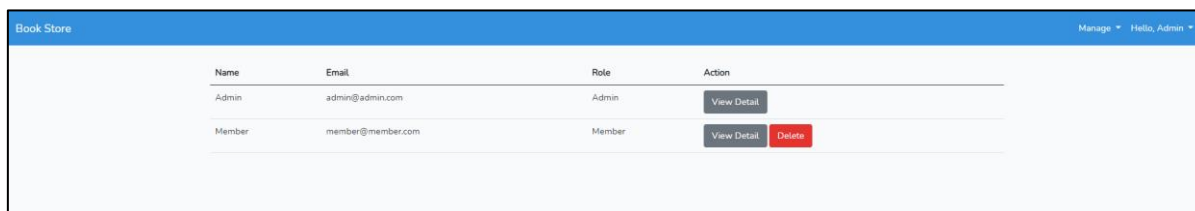
Field	Information
Name	Must be filled and unique

Name	Action
Lord of the Flies	View Book Detail
An Abundance of Katherines	View Book Detail
The Perks of Being a Wallflower	View Book Detail
Anne of Green Gables series	View Book Detail
Flowers For Algernon	View Book Detail
The Curious Incident of the Dog in the Night-Time	View Book Detail
The Hitchhiker's Guide to the Galaxy series	View Book Detail

Figure 11. Genre Detail Page

8. Manage User Page

Validate only **admin** can access this page. In this page, **admin** can **view all the users** and **delete the non-admin users**. You need to show the **User's Name**, **User's Email**, and the **User's Role**. When the **admin** clicks **View detail button**, the **admin** will be redirected to **User Detail Page**. When **admin** clicks delete button, delete selected user from database.



Name	Email	Role	Action
Admin	admin@admin.com	Admin	View Detail
Member	member@member.com	Member	View Detail Delete

Figure 12. Manage User Page

9. User Detail Page

Validate only **admin** can access this page. In this page, admin can **view and update** all the information about the user **except password**. Make sure that **each field** is filled by the **user information**. The following table shows the existing fields on this page and the validation for each field:

Field	Information
Role	Must be filled and must be either 'Admin' or 'Member'
Name	Must be filled
Email	Must be filled and unique with a valid email format

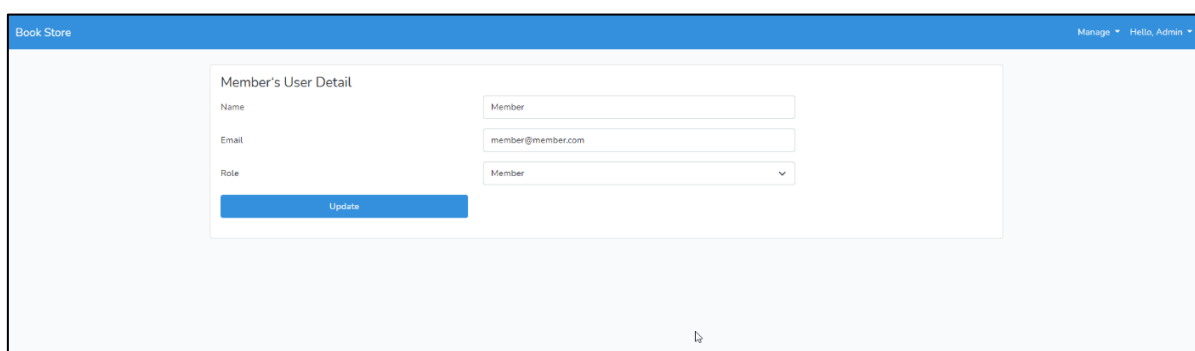


Figure 13. User Detail Page

10. View Cart Page

Validate only **member** can access this page. In this page, members can **view all the books** in their cart. You need to show the **Book's Name**, **Book's Author**, **Book's Price**, and **Book's Quantity**. Calculate and show **the sub total for each book** and the **grand total price**. When the **member** clicks the **View book detail**, then the **member** will be redirected to **Book Details Page**. When the

member clicks the **Edit button**, then the **member** will be redirected to **Edit Cart Page**. When the **member** clicks the **Remove button**, then the website will remove the item from the **member's cart**. You also need to provide a feature to **checkout** the cart. If the member wants to checkout, then **create a new transaction** that can be viewed in **transaction history page** later.

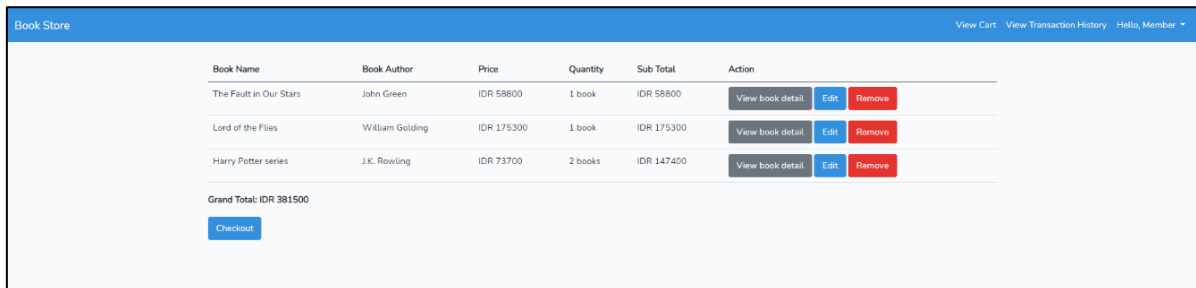


Figure 14. View Cart Page

11. Edit Cart Page

Validate only **member** can access this page. In this page, members can **view the current book** and **update the quantity**. You need to show the **Book's Cover**, **Book's Name**, **Book's Author**, **Book's Synopsis**, **Book's Genre**, **Book's Price**, and the **quantity**. The following table shows the existing fields on this page and the validation for each field:

Field	Information
Quantity	Must be filled and must be 1 or more

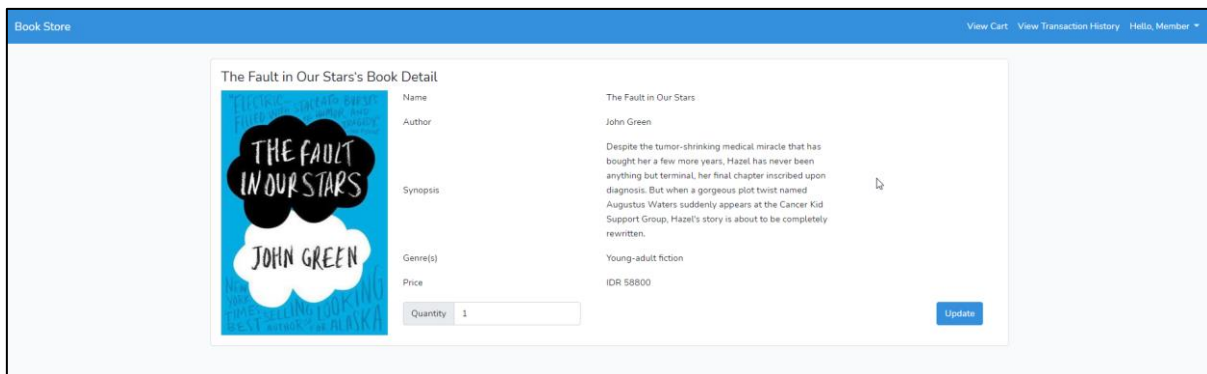


Figure 15. Edit Cart Page

12. View Transaction History Page

Validate only **member** can access this page. In this page, members can **view all the transaction history** information which are **Transaction Id** and **Transaction Date**. When the **member** clicks the **View transaction detail**, then the **member** will be redirected to **Transaction History Detail Page**.

Book Store			View Cart	View Transaction History	Hello, Member ▾
Transaction ID	Date	Action			
d048531f-9a96-47a6-b393-cac23aeff468	Tue, May 25, 2021 2:55 PM	View transaction detail			

Figure 16. View Transaction History Page

13. Transaction History Detail Page

Validate only **member** can access this page. In this page, members **can view all the information** about the books they bought which are **Book's Name, Book's Author, Book's Price, Quantity, Sub Total** for each book, and the **Grand Total Price**. When the **member** clicks **View book detail**, then the **member** will be redirected to **Book Detail Page**.

Book Store						View Cart	View Transaction History	Hello, Member ▾
Book Name	Book Author	Price	Quantity	Sub Total	Action			
The Fault in Our Stars	John Green	IDR 58800	1 book	IDR 58800	View book detail			
Lord of the Flies	William Golding	IDR 175300	1 book	IDR 175300	View book detail			
Harry Potter series	J.K. Rowling	IDR 73700	2 books	IDR 147400	View book detail			
Grand Total: IDR 381500								

Figure 17. Transaction History Detail Page

14. Profile Page

Validate only **member** and **admin** can access this page. In this page, **user** can **update** their **name** and **password**. User **can view their email address** but **cannot update the email address**. When the **user** clicks **Change password**, then the **users** will be redirected to **Change Password Page**. The following table shows the existing fields on this page and the validation for each field:

Field	Information
Name	Must be filled

Book Store		View Cart	View Transaction History	Hello, Member ▾
<div>Profile</div> <div> <div>Name</div> <div>Member</div> </div> <div> <div>Email</div> <div>member@member.com</div> </div> <div> <div>Update</div> <div>Change Password</div> </div>				

Figure 18. Profile Page

15. Change Password Page

Validate only **admin** and **member** can access this page. In this page, members need to **input their old password** as a verification and **input the new password twice**. The following table shows the existing fields on this page and the validation for each field:

Field	Information
Old Password	Must be filled and must be correct
New Password	Must be filled , minimum 8 characters long , and must be different from the old password
New Confirmation Password	Must be filled and must be the same with the new password

Figure 19. Change Password Page

Here are the rules that you must follow to create your project:

1. Use appropriate software for this subject based on **Sistem Praktikum** that can be downloaded from Binusmaya
2. Use the techniques taught during practicum.
3. Collect appropriate files for this subject based on **Sistem Praktikum** that can be downloaded from Binusmaya
4. Include the other files that can support your project, such as:
 - All files in your project
 - Other files (image, audio, video, etc.) used in your project
 - *.DOC file (documentation of your project) that contains all pages in your project, reference links of additional files (image, audio, video, etc.) used in your project, the description about how to use your application, etc

References:

<https://id.wikipedia.org/>