

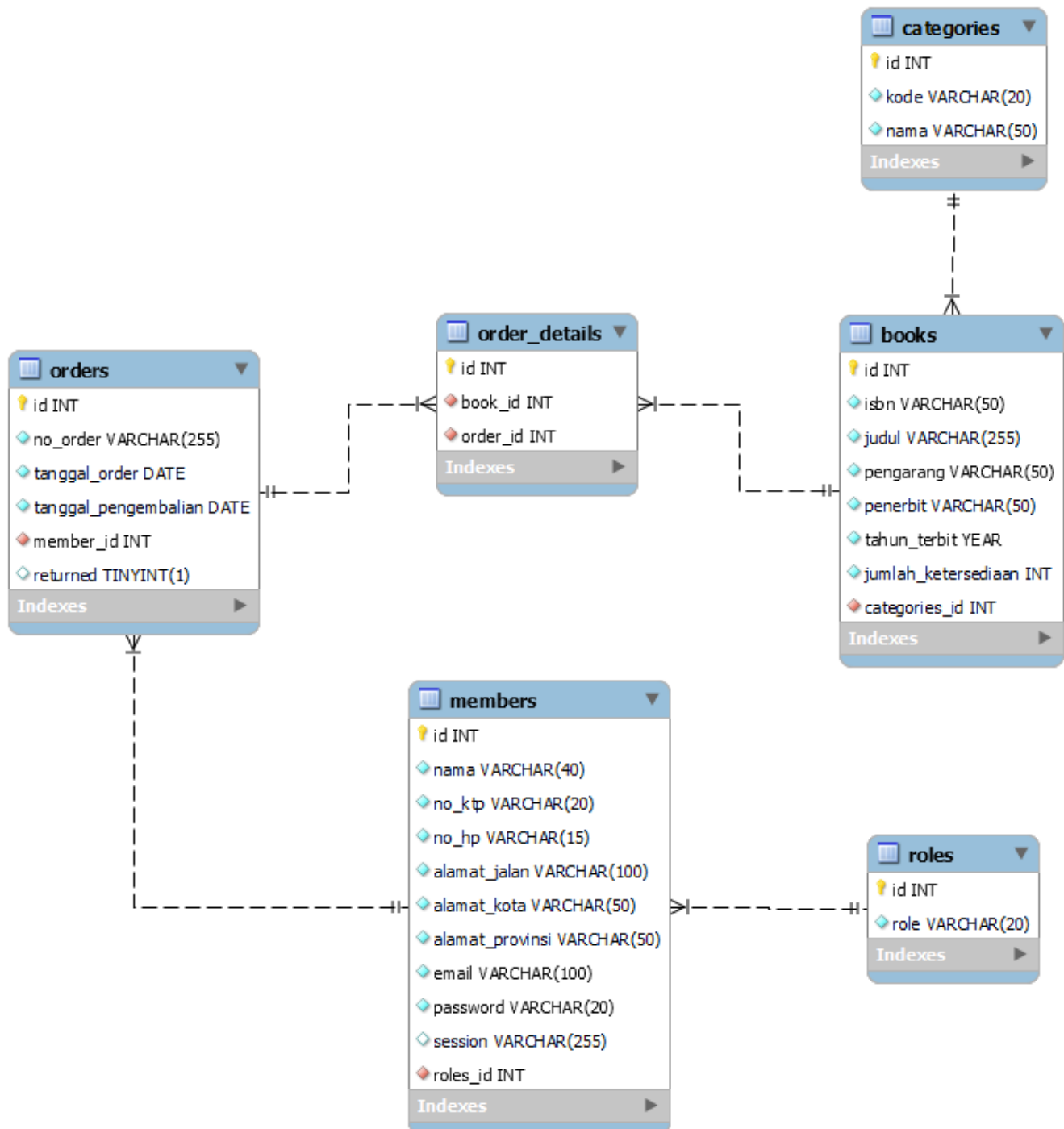
Nama: Kevin Octavianus Halim

Link GitHub: <https://github.com/CyaVain/siperpus>

Tools Yang Digunakan:

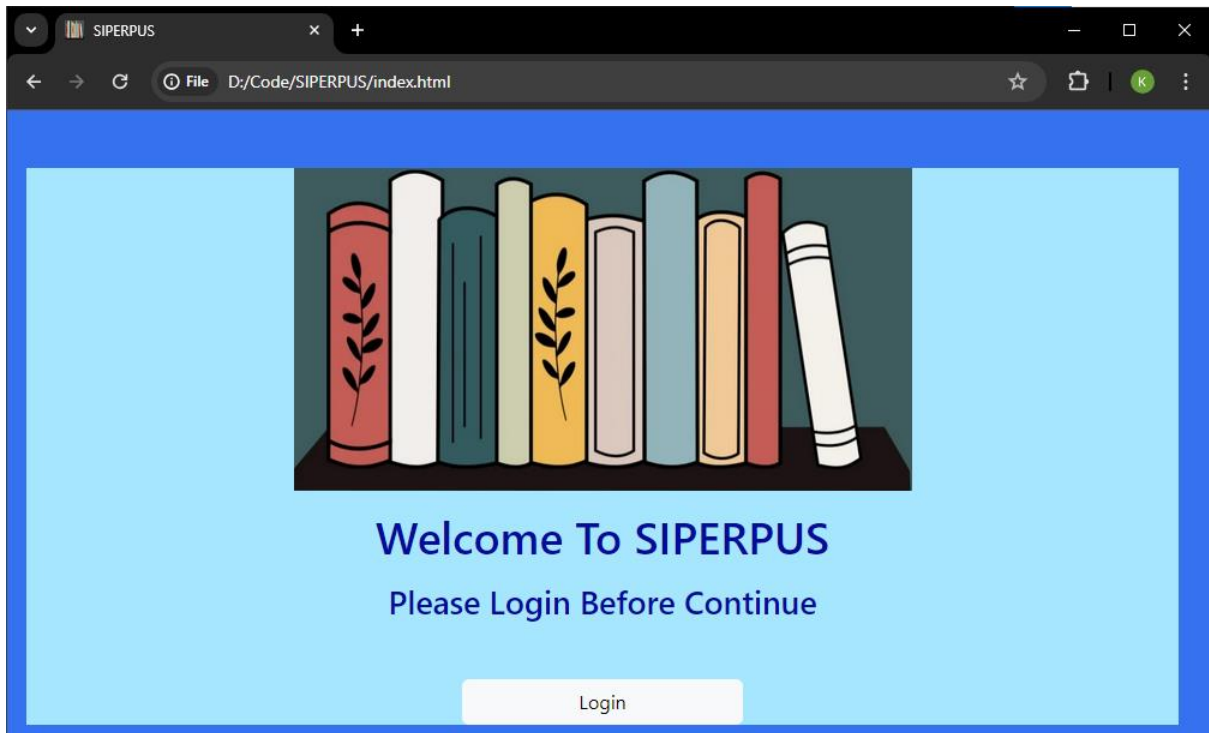
- Bootstrap (Soal No. 1)
- MySQL (Soal No. 2)
- JavaScript (Soal No. 3)

ERD

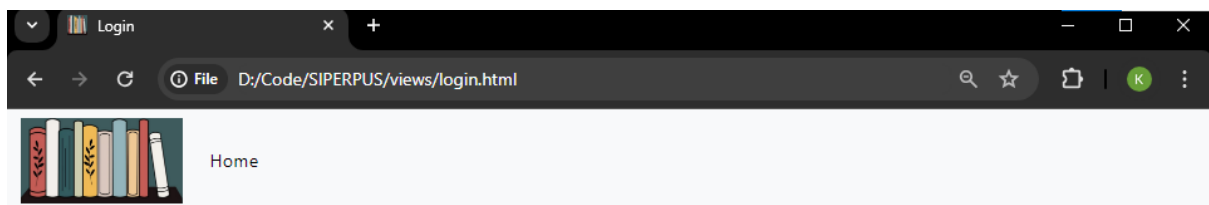


Soal No 1

Home Page



Login Page



Register Page

[Home](#)[Login](#)

Register

One Step Closer To The Greatness

Already Have An Account ? [Login](#) Here!

Nama Lengkap

Nama Length Must be Less than 40 and Doesn't Contain Any Number.

No KTP

No KTP Length Must Be 16 Digits No More No Less !

No Telepon

No Telepon Length Must Start With '08' and Maximum 15 Digits !

Nama Jalan

Nama Jalan Length Maximum 50 letters.

Kota

Nama Kota Length Maximum 20 letters.

Provinsi

Nama Provinsi Length Maximum 40 letters.

Email

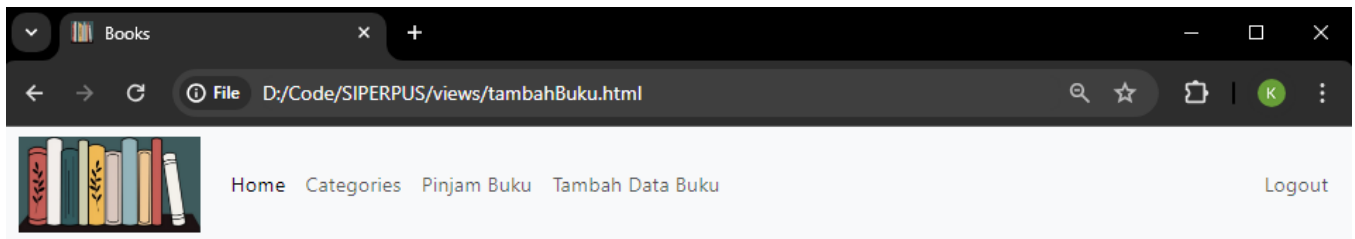
Email Format Must Be Valid.

Password

Password Must Contain at Least 1 Capital Letter and 1 Number.

Register

Tambah Buku



Daftar Buku

Add New Book

No	ISBN	Judul	Pengarang	Penerbit	Tahun Terbit	Kategori
1	9780143127550	To Kill a Mockingbird	Harper Lee	Harper Perennial Modern Classics	2006	Fiction
2	9780061120084	1984	George Orwell	Signet Classic	1950	Science-Fiction
3	9781594480003	Eat, Pray, Love	Elizabeth Gilbert	Penguin Books	2007	Romance-Comedy
4	9780061122415	The Catcher in the Rye	J.D. Salinger	Little, Brown and Company	1951	Drama

Add New Book

ISBN

Judul

Pengarang

Penerbit

Tahun Terbit

Kategori

Add Book

eg

Add New Book

×

ISBN

9780061120084

Judul

Ini Adalah Judul Buku

Pengarang

Kevin Octavianus Halim

Penerbit

Gramedia

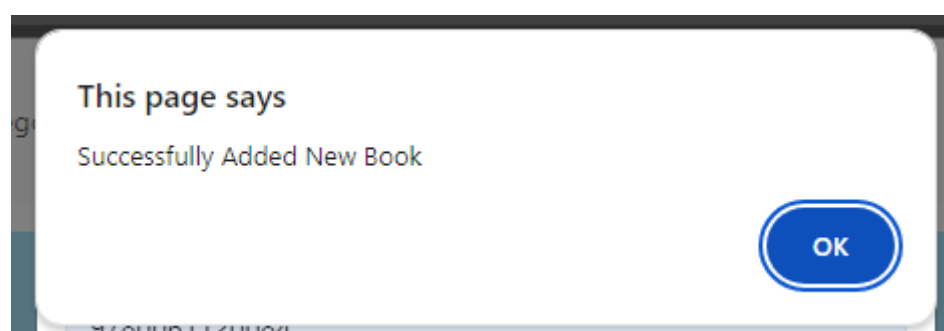
Tahun Terbit

2024

Kategori

Comedy

Add Book



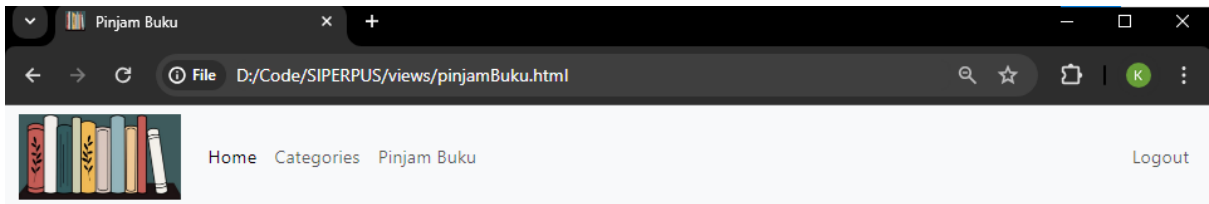


Daftar Buku

Add New Book

No	ISBN	Judul	Pengarang	Penerbit	Tahun Terbit	Kategori
1	9780143127550	To Kill a Mockingbird	Harper Lee	Harper Perennial Modern Classics	2006	Fiction
2	9780061120084	1984	George Orwell	Signet Classic	1950	Science-Fiction
3	9781594480003	Eat, Pray, Love	Elizabeth Gilbert	Penguin Books	2007	Romance-Comedy
4	9780061122415	The Catcher in the Rye	J.D. Salinger	Little, Brown and Company	1951	Drama
5	9780061120084	Ini Adalah Judul Buku	Kevin Octavianus Halim	Gramedia	2024	Comedy

Pinjam Buku

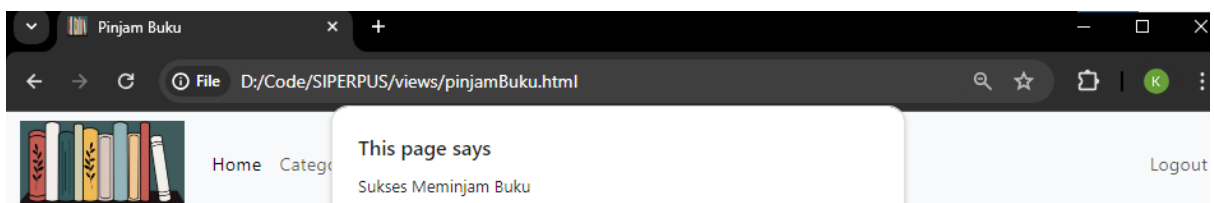


Pinjam Buku Keranjang

No	Judul	Pengarang	Penerbit	TahunTerbit	Kategori	Action
Keranjang Masih Kosong						

Daftar Buku

No	ISBN	Judul	Pengarang	Penerbit	Tahun Terbit	Kategori	Action
1	9780143127550	To Kill a Mockingbird	Harper Lee	Harper Perennial Modern Classics	2006	Fiction	<button>Pinjam</button>
2	9780061120084	1984	George Orwell	Signet Classic	1950	Science-Fiction	<button>Pinjam</button>
3	9781594480003	Eat, Pray, Love	Elizabeth Gilbert	Penguin Books	2007	Romance-Comedy	<button>Pinjam</button>
4	9780061122415	The Catcher in the Rye	J.D. Salinger	Little, Brown and Company	1951	Drama	<button>Pinjam</button>
5	9780743273565	The Great Gatsby	F. Scott Fitzgerald	Scribner	2004	Action	<button>Pinjam</button>



Keranjang

No	Judul	Pengarang	Penerbit	TahunTerbit	Kategori	Action
Keranjang Masih Kosong						

Daftar Buku

Pinjam Buku Keranjang

No	Judul	Pengarang	Penerbit	TahunTerbit	Kategori	Action
1	To Kill a Mockingbird	Harper Lee	Harper Perennial Modern Classics	2006	Fiction	Remove
2	The Catcher in the Rye	J.D. Salinger	Little, Brown and Company	1951	Drama	Remove

Checkout

Daftar Buku

No	ISBN	Judul	Pengarang	Penerbit	Tahun Terbit	Kategori	Action
1	9780061120084	1984	George Orwell	Signet Classic	1950	Science-Fiction	Pinjam
2	9781594480003	Eat, Pray, Love	Elizabeth Gilbert	Penguin Books	2007	Romance-Comedy	Pinjam
3	9780743273565	The Great Gatsby	F. Scott Fitzgerald	Scribner	2004	Action	Pinjam

Pinjam Buku

Home Categories

Logout

This page says

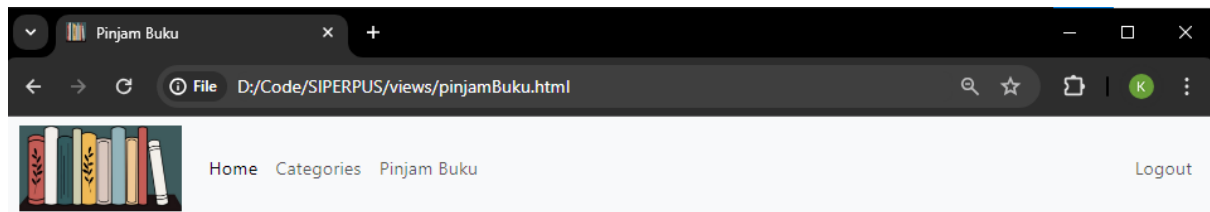
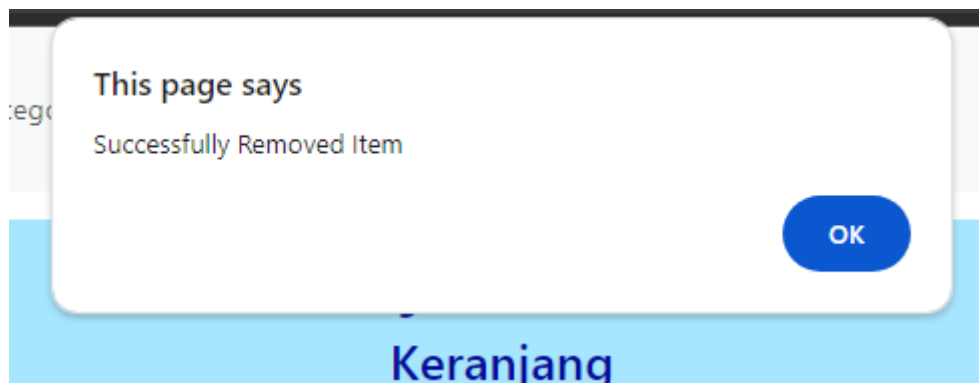
Are You Sure You Want To Remove This Item From Cart ?

OK Cancel

Pinjam Buku Keranjang

No	Judul	Pengarang	Penerbit	TahunTerbit	Kategori	Action
1	To Kill a Mockingbird	Harper Lee	Harper Perennial Modern Classics	2006	Fiction	Remove
2	The Catcher in the Rye	J.D. Salinger	Little, Brown and Company	1951	Drama	Remove

Checkout



Pinjam Buku

Keranjang

No	Judul	Pengarang	Penerbit	Tahun Terbit	Kategori	Action
1	To Kill a Mockingbird	Harper Lee	Harper Perennial Modern Classics	2006	Fiction	<button>Remove</button>

Checkout

Daftar Buku

No	ISBN	Judul	Pengarang	Penerbit	Tahun Terbit	Kategori	Action
1	9780061120084	1984	George Orwell	Signet Classic	1950	Science-Fiction	<button>Pinjam</button>
2	9781594480003	Eat, Pray, Love	Elizabeth Gilbert	Penguin Books	2007	Romance-Comedy	<button>Pinjam</button>
3	9780743273565	The Great Gatsby	F. Scott Fitzgerald	Scribner	2004	Action	<button>Pinjam</button>
4	9780061122415	The Catcher in the Rye	J.D. Salinger	Little, Brown and Company	1951	Drama	<button>Pinjam</button>



Keranjang

No	Judul	Pengarang	Penerbit	TahunTerbit	Kategori	Action
1	To Kill a Mockingbird	Harper Lee	Harper Perennial Modern Classics	2006	Fiction	<button>Remove</button>

Checkout

Daftar Buku

This page says

Successfully Checkout

OK



Pinjam Buku

Keranjang

No	Judul	Pengarang	Penerbit	TahunTerbit	Kategori	Action
Keranjang Masih Kosong						

Daftar Buku


No	ISBN	Judul	Pengarang	Penerbit	Tahun Terbit	Kategori	Action
1	9780061120084	1984	George Orwell	Signet Classic	1950	Science-Fiction	<button>Pinjam</button>
2	9781594480003	Eat, Pray, Love	Elizabeth Gilbert	Penguin Books	2007	Romance-Comedy	<button>Pinjam</button>
3	9780743273565	The Great Gatsby	F. Scott Fitzgerald	Scribner	2004	Action	<button>Pinjam</button>
4	9780061122415	The Catcher in the Rye	J.D. Salinger	Little, Brown and Company	1951	Drama	<button>Pinjam</button>

Category list

Categories

JavaScript Capitalize First Letter

File D:/Code/SIPERPUS/views/listCategory.html

 [Home](#) [Categories](#) [Pinjam Buku](#) [Logout](#)

Categories

Add New Category

No	Kode	Nama	Action	
1	FIC	Fiction	<div>Update</div>	<div>Delete</div>
2	SCI-FIC	Science-Fiction	<div>Update</div>	<div>Delete</div>
3	ROM-COM	Romance-Comedy	<div>Update</div>	<div>Delete</div>
4	DRM	Drama	<div>Update</div>	<div>Delete</div>
5	ACT	Action	<div>Update</div>	<div>Delete</div>

Update

The screenshot shows a web browser window with the address bar displaying "D:/Code/SIPERPUS/views/listCategory.html". The page has a navigation bar with "Home" and "Categories" links, and a "Logout" link on the right. A modal dialog titled "This page says" is open, with the text "Input New Code" and a text input field containing "rom". Below the dialog is a table with 5 rows of category data. Each row has columns for "No", "Kode", "Nama", and "Action". The "Action" column contains "Update" and "Delete" buttons.

No	Kode	Nama	Action
1	FIC	Fiction	<button>Update</button> <button>Delete</button>
2	SCI-FIC	Science-Fiction	<button>Update</button> <button>Delete</button>
3	ROM-COM	Romance-Comedy	<button>Update</button> <button>Delete</button>
4	DRM	Drama	<button>Update</button> <button>Delete</button>
5	ACT	Action	<button>Update</button> <button>Delete</button>

This screenshot shows the same modal dialog as the previous one, but now the text input field contains the word "romance". The "OK" and "Cancel" buttons are still visible at the bottom right of the dialog.

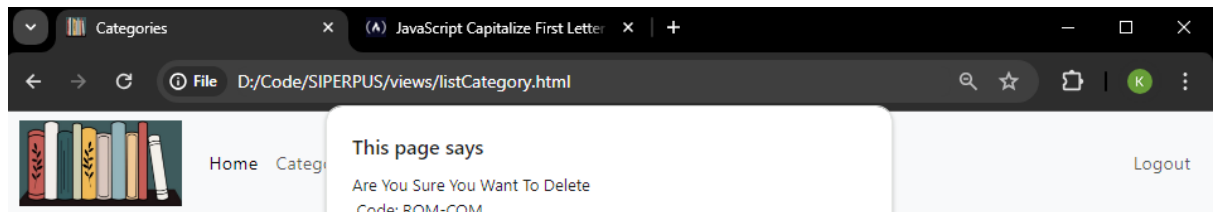
This screenshot shows a modal dialog titled "This page says" with the text "Sucessfully Update Category". There is a single "OK" button at the bottom right of the dialog.

Categories

Add New Category

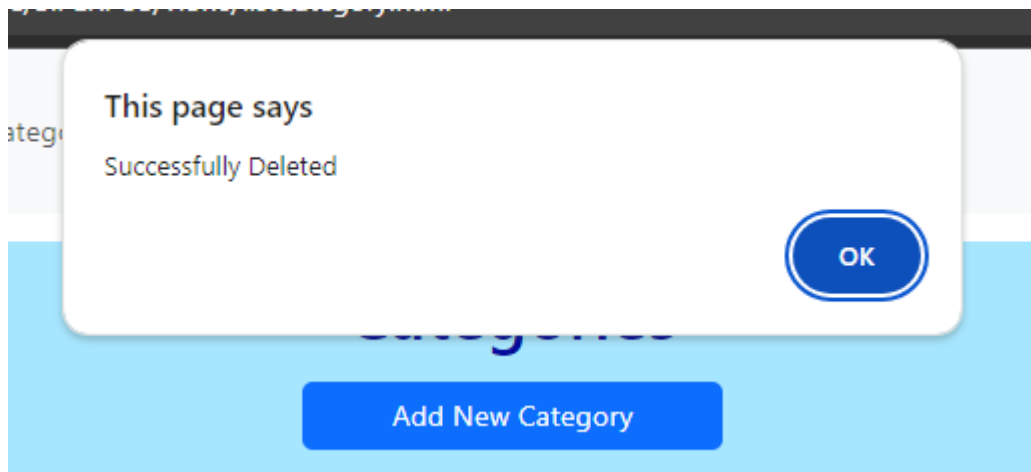
No	Kode	Nama	Action	
1	FIC	Fiction	Update	Delete
2	SCI-FIC	Science-Fiction	Update	Delete
3	ROM-COM	Romance-Comedy	Update	Delete
4	DRM	Drama	Update	Delete
5	ROM	Romance	Update	Delete

Delete Category



[Add New Category](#)

No	Kode	Nama	Action	
1	FIC	Fiction	Update	Delete
2	SCI-FIC	Science-Fiction	Update	Delete
3	ROM-COM	Romance-Comedy	Update	Delete
4	DRM	Drama	Update	Delete
5	ROM	Romance	Update	Delete



Categories

Add New Category

No	Kode	Nama	Action	
1	FIC	Fiction	Update	Delete
2	SCI-FIC	Science-Fiction	Update	Delete
3	DRM	Drama	Update	Delete
4	ROM	Romance	Update	Delete

Add New Category

Categories JavaScript Capitalize First Letter

File D:/Code/SIPERPUS/views/listCategory.html

Home Categories Logout

This page says
Insert Category Code
chd

OK Cancel

No	Kode	Nama	Action
1	FIC	Fiction	<button>Update</button> <button>Delete</button>
2	SCI-FIC	Science-Fiction	<button>Update</button> <button>Delete</button>
3	DRM	Drama	<button>Update</button> <button>Delete</button>
4	ROM	Romance	<button>Update</button> <button>Delete</button>

This page says
Insert Category Name
children

OK Cancel

This page says
Successfully Added New Category

OK

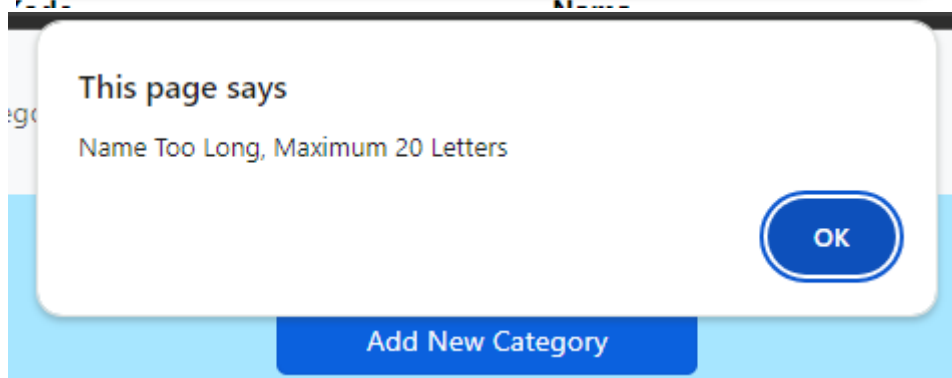
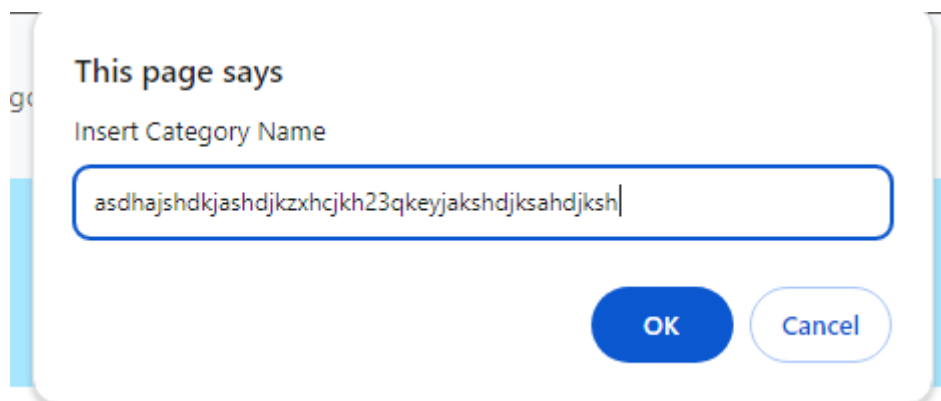
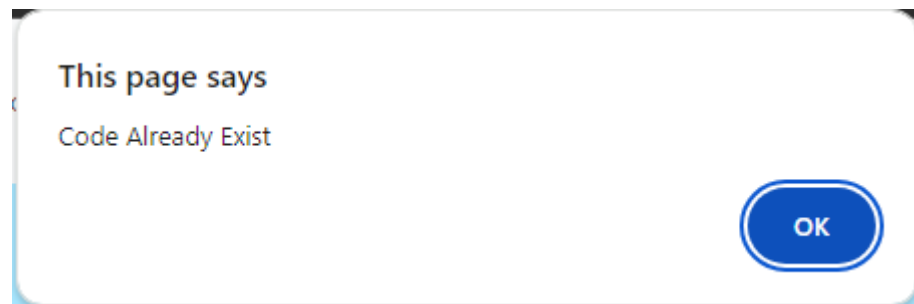


Categories

Add New Category

No	Kode	Nama	Action	
1	FIC	Fiction	<button>Update</button>	<button>Delete</button>
2	SCI-FIC	Science-Fiction	<button>Update</button>	<button>Delete</button>
3	DRM	Drama	<button>Update</button>	<button>Delete</button>
4	ROM	Romance	<button>Update</button>	<button>Delete</button>
5	CHD	Children	<button>Update</button>	<button>Delete</button>

Validation



Soal No 2

DDL

```
DROP TABLE IF EXISTS roles, members,  
categories, books, orders, order_details;
```

```
CREATE TABLE roles(  
  id INT PRIMARY KEY AUTO_INCREMENT,  
  role varchar(20) NOT NULL  
);
```

```
CREATE TABLE members(  
  id INT PRIMARY KEY AUTO_INCREMENT,  
  nama VARCHAR(40) NOT NULL,  
  no_ktp VARCHAR(20) NOT NULL,  
  no_hp VARCHAR(15) NOT NULL,  
  alamat_jalan VARCHAR(100) NOT NULL,  
  alamat_kota VARCHAR(50) NOT NULL,  
  alamat_provinsi VARCHAR(50) NOT NULL,  
  email VARCHAR(100) NOT NULL,  
  password VARCHAR(20) NOT NULL,  
  session VARCHAR(255),  
  roles_id INT NOT NULL,  
  FOREIGN KEY (roles_id) REFERENCES roles(id)  
);
```

```
CREATE TABLE categories(  
  id INT PRIMARY KEY AUTO_INCREMENT,  
  kode VARCHAR(20) NOT NULL,  
  nama VARCHAR(50) NOT NULL  
);
```

```
CREATE TABLE books(  
  id INT PRIMARY KEY AUTO_INCREMENT,  
  isbn VARCHAR(50) NOT NULL,  
  judul VARCHAR(255) NOT NULL,  
  pengarang VARCHAR(50) NOT NULL,  
  penerbit VARCHAR(50) NOT NULL,  
  tahun_terbit YEAR NOT NULL,  
  jumlah_ketersediaan INT NOT NULL,  
  categories_id INT NOT NULL,  
  FOREIGN KEY (categories_id) REFERENCES categories(id)  
);
```

```
CREATE TABLE orders(  
  id INT PRIMARY KEY AUTO_INCREMENT,  
  no_order VARCHAR(255) NOT NULL,  
  tanggal_order DATE NOT NULL,  
  tanggal_pengembalian DATE NOT NULL,  
  member_id INT NOT NULL,  
  returned boolean,  
  denda int,  
  FOREIGN KEY (member_id) REFERENCES members(id)  
);
```

```
CREATE TABLE order_details(  
  id INT PRIMARY KEY AUTO_INCREMENT,  
  book_id INT NOT NULL,  
  order_id INT NOT NULL,  
  FOREIGN KEY (book_id) REFERENCES books(id),  
  FOREIGN KEY (order_id) REFERENCES orders(id)  
);
```

DML

```
INSERT INTO categories(kode, nama)
VALUES("FIC","Fiction"),
("SCI-FIC","Science-Fiction"),
("ROM-COM","Romance-Comedy"),
("DRM","Drama"),
("ACT","Action"),
("CHD","Children");
```

```
INSERT INTO books(isbn,judul,pengarang,penerbit,tahun_terbit,jumlah_ketersediaan,categories_id)
VALUES('978-3-16-148410-0', 'The Great Adventure', 'John Doe', 'Adventure Books', 2021, 10, 1),
('978-1-40-289462-6', 'Sci-Fi World', 'Jane Smith', 'Futuristic Press', 2020, 25, 2),
('978-0-14-143956-3', 'Love and Laughs', 'Emily Bronte', 'Romantic Times', 2019, 7, 3),
('978-1-93-398817-7', 'Drama in Real Life', 'Arthur Miller', 'Drama Publishers', 2018, 4, 4),
('978-0-452-28423-4', 'Action Packed', 'Jack Reacher', 'Action House', 2022, 8, 5),
('978-0-316-76948-8', 'Kids Fun Stories', 'Dr. Seuss', 'Children World', 2017, 15, 6),
('978-0-7432-7356-5', 'Mystery of the Lost', 'Agatha Christie', 'Mystery Press', 2016, 6, 1),
('978-1-4028-9462-8', 'Future Tense', 'Isaac Asimov', 'Sci-Fi Universe', 2015, 9, 2),
('978-0-452-28424-1', 'Romantic Journey', 'Nicholas Sparks', 'Heart Publishers', 2023, 3, 3),
('978-0-06-112008-4', 'Life Drama', 'Tennessee Williams', 'Classic Drama', 2021, 3, 4);
```

```
INSERT INTO roles (role)
VALUES("MEMBER"), ("ADMIN");
```

```
INSERT INTO members(nama, no_ktp, no_hp, alamat_jalan, alamat_kota, alamat_provinsi, email, password, roles_id)
VALUES
('Ahmad Santoso', '3276010101010001', '081234567890', 'Jl. Merdeka No. 1', 'Bandung', 'Jawa Barat', 'ahmad.santoso@example.com', 'password123', 1),
('Budi Hartono', '3174010202020002', '082234567891', 'Jl. Sudirman No. 5', 'Jakarta', 'DKI Jakarta', 'budi.hartono@example.com', 'password123', 1),
('Citra Dewi', '3273020303030003', '083234567892', 'Jl. Diponegoro No. 10', 'Bekasi', 'Jawa Barat', 'citra.dewi@example.com', 'password123', 2),
('Dewi Lestari', '3374010404040004', '084234567893', 'Jl. Ahmad Yani No. 15', 'Semarang', 'Jawa Tengah', 'dewi.lestari@example.com', 'password123', 1),
('Eko Prasetyo', '3175030505050005', '085234567894', 'Jl. Gatot Subroto No. 20', 'Jakarta', 'DKI Jakarta', 'eko.prasetyo@example.com', 'password123', 2);
```

```
INSERT INTO orders(no_order, tanggal_order, tanggal_pengembalian, member_id, returned)
VALUES('ORD001', '2024-05-01', '2024-05-15', 1, false),
('ORD002', '2024-05-03', '2024-05-17', 2, false),
('ORD003', '2024-05-04', '2024-05-19', 3, false),
('ORD004', '2024-05-21', '2024-05-26', 3, false);
```

```
INSERT INTO order_details(order_id,book_id)
VALUES(1,1),(1,2),(1,3),
(2,4),(2,5),(2,6),
(3,7),(3,8),(4,9);
```

```
UPDATE orders
SET returned = true, denda = 0
WHERE id in (1,2,3);
```

```
UPDATE orders
SET returned = true, denda = 5000
WHERE id = 4;
```

OUTPUT

```
SELECT * FROM siperpus_db.categories;
```

id	kode	nama
1	FIC	Fiction
2	SCI-FIC	Science-Fiction
3	ROM-COM	Romance-Comedy
4	DRM	Drama
5	ACT	Action
6	CHD	Children

```
SELECT * FROM siperpus_db.books;
```

id	isbn	judul	pengarang	penerbit	tahun_terbit	jumlah_ketersediaan	categories_id
1	978-3-16-148410-0	The Great Adventure	John Doe	Adventure Books	2021	10	1
2	978-1-40-289462-6	Sci-Fi World	Jane Smith	Futuristic Press	2020	25	2
3	978-0-14-143956-3	Love and Laughs	Emily Bronte	Romantic Times	2019	7	3
4	978-1-93-398817-7	Drama in Real Life	Arthur Miller	Drama Publishers	2018	4	4
5	978-0-452-28423-4	Action Packed	Jack Reacher	Action House	2022	8	5
6	978-0-316-76948-8	Kids Fun Stories	Dr. Seuss	Children World	2017	15	6
7	978-0-7432-7356-5	Mystery of the Lost	Agatha Christie	Mystery Press	2016	6	1
8	978-1-4028-9462-8	Future Tense	Isaac Asimov	Sci-Fi Universe	2015	9	2
9	978-0-452-28424-1	Romantic Journey	Nicholas Sparks	Heart Publishers	2023	3	3
10	978-0-06-112008-4	Life Drama	Tennessee Williams	Classic Drama	2021	3	4

```
SELECT * FROM siperpus_db.roles;
```

id	role
1	MEMBER
2	ADMIN

```
SELECT * FROM siperpus_db.members;
```

id	nama	no_ktp	no_hp	alamat_jalan	alamat_kota	alamat_provinsi	email	password	session	roles_id
1	Ahmad Santoso	3276010101010001	081234567890	Jl. Merdeka No. 1	Bandung	Jawa Barat	ahmad.santoso@example.com	password123	NULL	1
2	Budi Hartono	3174010202020002	082234567891	Jl. Sudirman No. 5	Jakarta	DKI Jakarta	budi.hartono@example.com	password123	NULL	1
3	Citra Dewi	3273020303030003	083234567892	Jl. Diponegoro No. 10	Bekasi	Jawa Barat	citra.dewi@example.com	password123	NULL	2
4	Dewi Lestari	3374010404040004	084234567893	Jl. Ahmad Yani No. 15	Semarang	Jawa Tengah	dewi.lestari@example.com	password123	NULL	1
5	Eko Prasetyo	3175030505050005	085234567894	Jl. Gatot Subroto No. 20	Jakarta	DKI Jakarta	eko.prasetyo@example.com	password123	NULL	2

```
SELECT * FROM siperpus_db.orders;
```

id	no_order	tanggal_order	tanggal_pengembalian	member_id	returned	denda
1	ORD001	2024-05-01	2024-05-15	1	1	0
2	ORD002	2024-05-03	2024-05-17	2	1	0
3	ORD003	2024-05-04	2024-05-19	3	1	0
4	ORD004	2024-05-21	2024-05-26	3	1	5000

```
SELECT * FROM siperpus_db.order_details;
```

id	book_id	order_id
1	1	1
2	2	1
3	3	1
4	4	2
5	5	2
6	6	2
7	7	3
8	8	3
9	9	4

Soal 2d.1

Tampilkan daftar buku yang tidak pernah dipinjam di oleh siapapun (Expected Buku 10)

Query:

```
SELECT b.id, b.judul
FROM order_details od
RIGHT JOIN books b ON od.book_id = b.id
WHERE od.id is NULL
```

Output:

id	judul
10	Life Drama

Soal 2d.2

Tampilkan user yang pernah mengembalikan buku terlambat beserta dendanya

Query:

```
SELECT m.id, m.nama, o.denda
FROM orders o
JOIN members m ON o.member_id = m.id
WHERE o.denda != 0
```

Output:

id	nama	denda
3	Citra Dewi	5000

Soal 2d.3

Tampilkan user dengan daftar buku yang dipinjam nya.

Query:

```
SELECT DENSE_RANK() OVER(ORDER BY m.id ASC) AS "No",
m.nama as "Member",
GROUP_CONCAT(b.judul
ORDER BY b.id ASC
SEPARATOR ', '
) as "Judul Buku"
FROM members m
JOIN orders o ON o.member_id = m.id
JOIN order_details od ON od.order_id = o.id
JOIN books b ON od.book_id = b.id
GROUP BY m.id, m.nama
```

Output:

No	Member	Judul Buku
1	Ahmad Santoso	The Great Adventure, Sci-Fi World, Love and Laughs
2	Budi Hartono	Drama in Real Life, Action Packed, Kids Fun Stories
3	Citra Dewi	Mystery of the Lost, Future Tense, Romantic Journey

Soal No 3

Output

```
> listBuku
< ▼ (5) [{...}, {...}, {...}, {...}, {...}] ⓘ
  ▼ 0:
    id: 1
    isbn: "9780141182551"
    judul: "The Stranger"
    penerbit: "Penguin Books"
    pengarang: "Albert Camus"
    tahunTerbit: 1942
    ► [[Prototype]]: Object
  ▼ 1:
    id: 2
    isbn: "9780061120084"
    judul: "One Hundred Years of Solitude"
    penerbit: "Harper Perennial Modern Classics"
    pengarang: "Gabriel Garcia Marquez"
    tahunTerbit: 1967
    ► [[Prototype]]: Object
  ▼ 2:
    id: 3
    isbn: "9780679720201"
    judul: "Norwegian Wood"
    penerbit: "Vintage International"
    pengarang: "Haruki Murakami"
    tahunTerbit: 1987
    ► [[Prototype]]: Object
  ▼ 3:
    id: 4
    isbn: "9780140182078"
    judul: "The Metamorphosis"
    penerbit: "Penguin Books"
    pengarang: "Franz Kafka"
    tahunTerbit: 1915
    ► [[Prototype]]: Object
  ▼ 4:
    id: 5
    isbn: "9780679755333"
    judul: "Beloved"
    penerbit: "Vintage"
    pengarang: "Toni Morrison"
    tahunTerbit: 1987
    ► [[Prototype]]: Object
  length: 5
  ► [[Prototype]]: Array(0)

> batasMaxPinjam
< 14

> dendaHarian
< 1000

> dendaMax
< 30000

> bukuYangDiPinjam
< ► (3) [4, 1, 3]

> tanggalPinjam
< Tue Oct 01 2024 07:00:00 GMT+0700 (Western Indonesia Time)

> tanggalKembali
< Sun Oct 20 2024 07:00:00 GMT+0700 (Western Indonesia Time)

> hitungDenda(tanggalPinjam,tanggalKembali,bukuYangDiPinjam)
< ▼ {totalDenda: 45000, dendaPerBuku: Array(3)} ⓘ
  ▼ dendaPerBuku: Array(3)
    ► 0: {id: 4, judul: 'The Metamorphosis', denda: 15000}
    ► 1: {id: 1, judul: 'The Stranger', denda: 15000}
    ► 2: {id: 3, judul: 'Norwegian Wood', denda: 15000}
    length: 3
    ► [[Prototype]]: Array(0)
  totalDenda: 45000
  ► [[Prototype]]: Object
```

Validasi

Jumlah Buku Yang diPinjam Lebih Banyak Dari Stok Buku

```
bukuYangDiPinjam
▶ (6) [4, 1, 3, 2, 5, 6]
hitungDenda(tanggalPinjam,tanggalKembali,bukuYangDiPinjam)
## Jumlah Buku Yang Dipinjam Lebih Banyak Dari Ketersediaan Buku ##
```

Buku Yang diPinjam Terdapat Duplikat

```
bukuYangDiPinjam
▶ (4) [4, 1, 3, 4]
hitungDenda(tanggalPinjam,tanggalKembali,bukuYangDiPinjam)
## BUKU YANG SAMA TIDAK BISA DIPINJAM BERSAMAAN
```

Buku Yang diPinjam Tidak Ada Pada Stok Buku

```
bukuYangDiPinjam
▶ (3) [6, 1, 3]
hitungDenda(tanggalPinjam,tanggalKembali,bukuYangDiPinjam)
## BUKU TIDAK VALID / TIDAK ADA ##
```

Tanggal Kembali Belum Bisa Dikenakan Denda

```
tanggalPinjam
Tue Oct 01 2024 07:00:00 GMT+0700 (Western Indonesia Time)
tanggalKembali
Sun Oct 13 2024 07:00:00 GMT+0700 (Western Indonesia Time)
bukuYangDiPinjam
▶ (3) [1, 2, 4]
hitungDenda(tanggalPinjam,tanggalKembali,bukuYangDiPinjam)
## Pinjaman Tidak Dikenakan Kenda Apapun Dikarenakan Pengembalian Masih Dibawah Dari Maximal Pengembalian ##
Durasi Pinjaman : 12 Hari
```

Tanggal Kembali Kurang Dari Tanggal Pinjam

```
tanggalPinjam
Tue Oct 15 2024 07:00:00 GMT+0700 (Western Indonesia Time)
tanggalKembali
Mon Oct 14 2024 07:00:00 GMT+0700 (Western Indonesia Time)
bukuYangDiPinjam
▶ (3) [1, 2, 4]
hitungDenda(tanggalPinjam,tanggalKembali,bukuYangDiPinjam)
## Tanggal Pengembalian Tidak Boleh Kurang Dari Tanggal Pinjam ##
```