

SISTEM SIBER FISIK

DigiLend

Digital Laboratory Lending System

DigiLend : What You Need to Know

UNDERSTAND HOW THIS WORKS

Latar Belakang

Front End

Cara Kerja dan Fitur

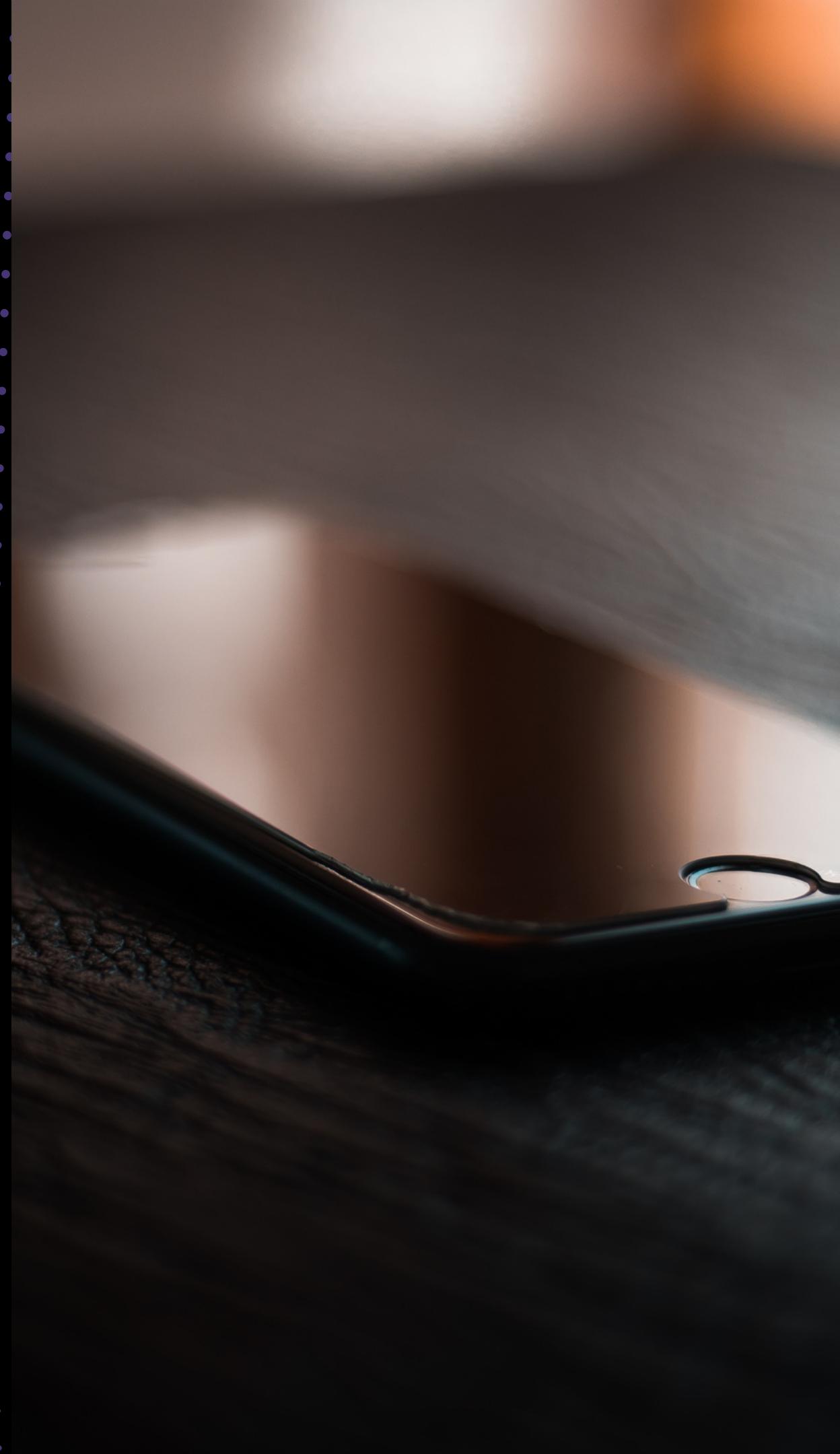
Back End

Tabel

Thing To Improve

Apa sih tujuan nya ??

Proyek ini dibuat dengan tujuan mempermudah proses peminjaman barang di lingkungan praktikum atau laboratorium. Dalam lingkungan tersebut, seringkali terdapat barang-barang yang dapat dipinjam oleh praktikan untuk keperluan pengajaran dan praktikum. Namun, seringkali proses peminjaman dan pengembalian barang menjadi tidak terstruktur dan sulit untuk dilacak.



Before DigiLend

Proses peminjaman dan pengembalian barang tidak terstruktur.

Kesulitan dalam melacak status peminjaman barang.

Keterbatasan informasi mengenai barang yang tersedia untuk dipinjam.

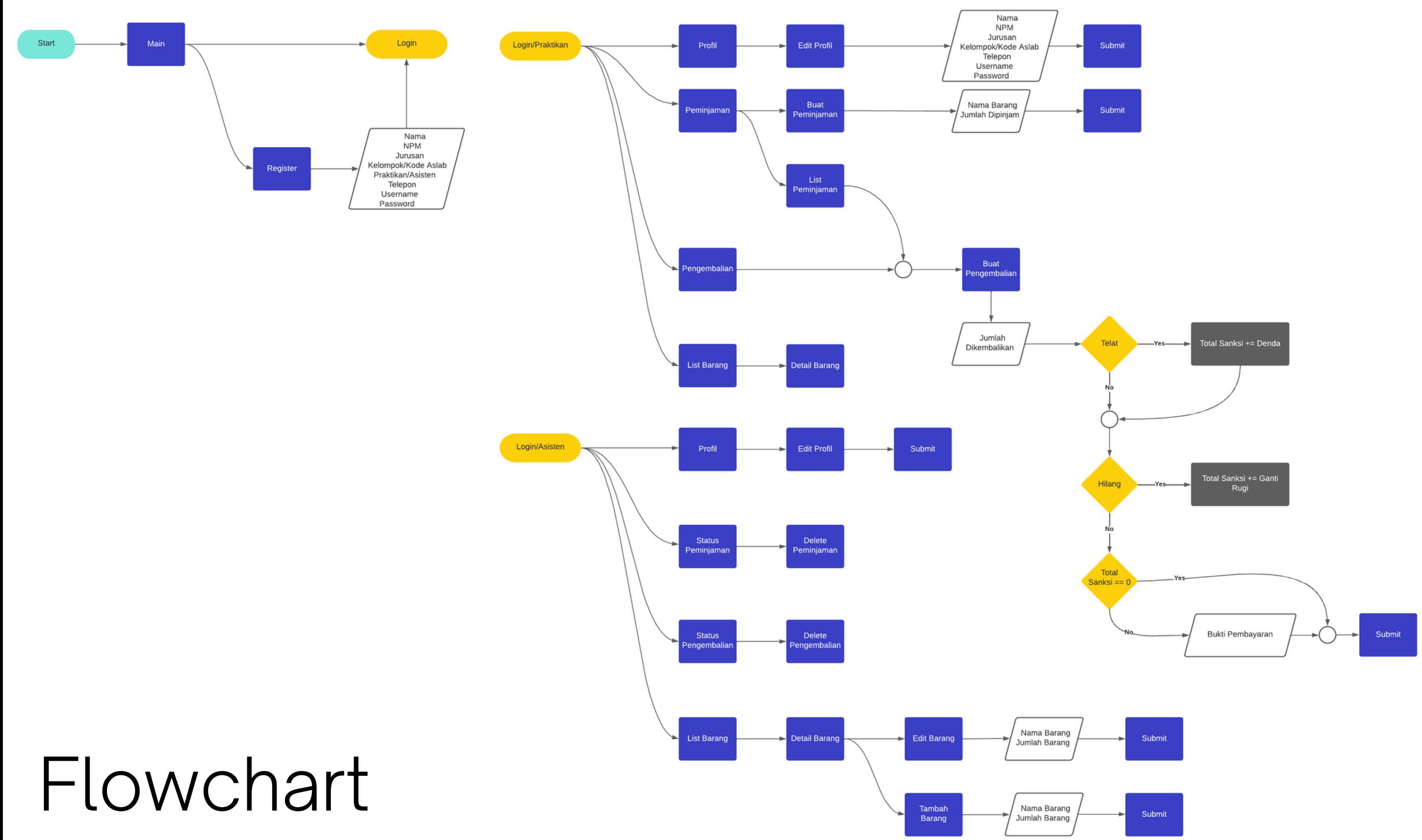
With DigiLend

Efisiensi waktu dan sumber daya dengan proses peminjaman yang terstruktur.

Meminimalisir kehilangan barang dengan sistem pengembalian yang terpantau.

Meningkatkan transparansi dan akurasi informasi mengenai barang yang dapat dipinjam.

Flowchart



Fitur Yang Digunakan

REGISTER DAN LOGIN

Pengguna dapat melakukan registrasi dan login sebagai praktikan atau asisten. Ini memungkinkan mereka mengakses sistem dengan akun yang sesuai.

PEMINJAMAN DAN PENGEMBALIAN

Praktikan dapat melakukan peminjaman dan pengembalian barang. Masa peminjaman maksimal adalah 1 bulan. Jika terlambat mengembalikan, akan dikenakan denda sebesar Rp1.000 per hari. Selain itu, jika barang hilang, praktikan harus membayar biaya ganti rugi sesuai harga barang. Proses pembayaran dilakukan dengan mengunggah bukti pembayaran melalui link drive.

LIHAT DAN EDIT LIST BARANG

Praktikan dan asisten dapat melihat list barang yang tersedia. Asisten memiliki kemampuan untuk mengedit list tersebut, memungkinkan mereka menambahkan atau menghapus barang.

PROFIL

Asisten dan praktikan dapat melihat dan mengedit profil akun mereka. Namun, mereka tidak memiliki akses untuk mengubah role (asisten/praktikan). Ini memungkinkan pengguna memperbarui informasi profil mereka.

Why DigLend Is Better

**MENGGUNAKAN FITUR INI MEMPERMUDAH PENGELOLAAN
PEMINJAMAN BARANG, MEMBUATNYA LEBIH TERSTRUKTUR
DAN EFISIEN**

Dengan fitur ini, praktikan dan asisten dapat melacak dengan mudah status peminjaman barang dan menghindari kehilangan barang yang dipinjam.



Front End

Back End

Front End

Halaman Utama

Informasi sistem peminjaman barang dan tautan login/registrasi

Halaman Login

Praktikan dan Asisten masuk menggunakan akun terdaftar

Halaman Registrasi

Praktikan membuat akun baru

Halaman List Barang

Praktikan melihat barang yang tersedia. Asisten dapat mengedit detail barang

Front End

Halaman Peminjaman

Praktikan mengajukan peminjaman barang

Status Pengembalian

Praktikan melaporkan pengembalian barang, Asisten dapat melihat status pengembalian dari masing-masing peminjaman yang dilakukan oleh praktikan.

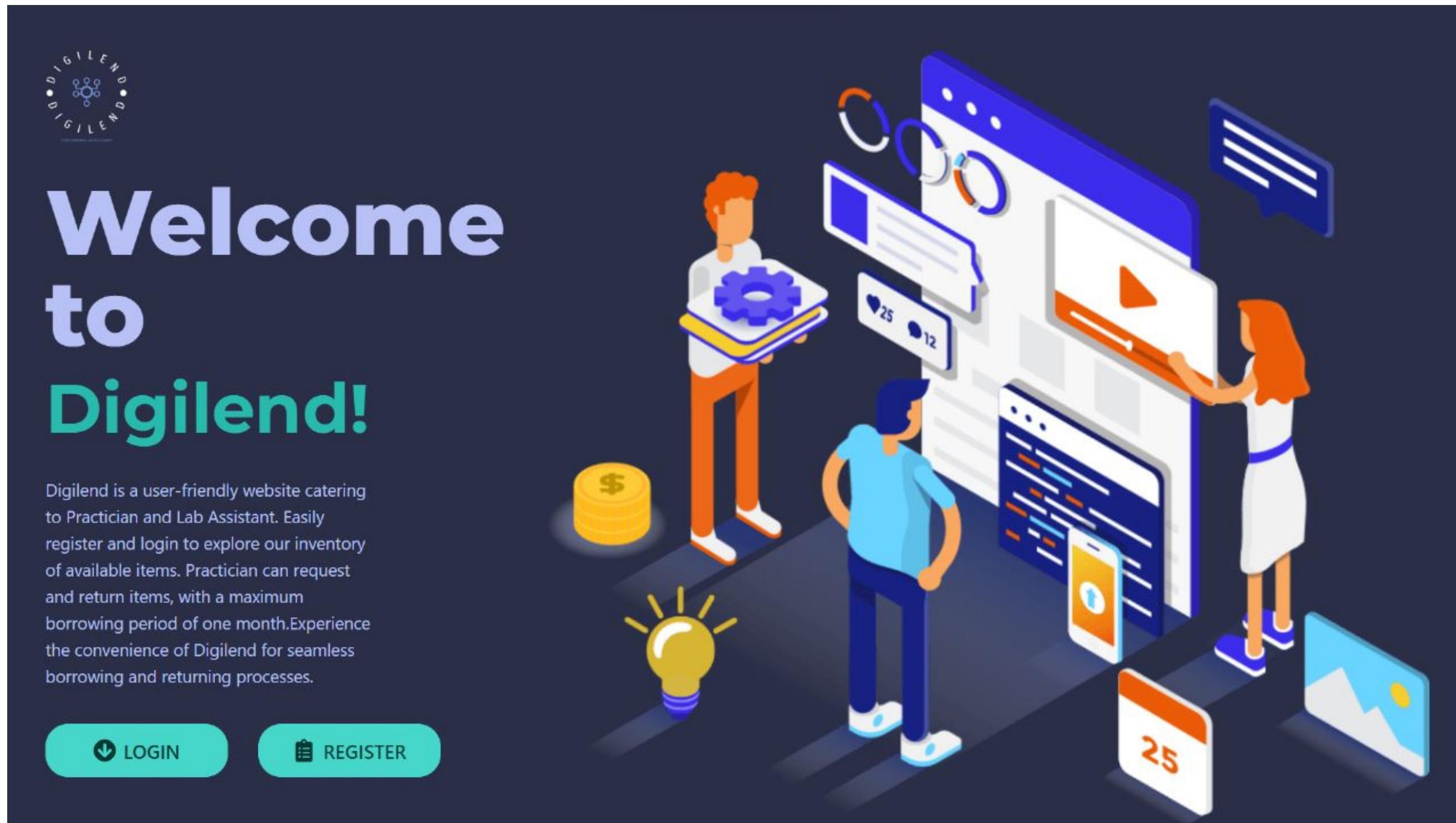
Status Peminjaman

Praktikan dan Asisten melihat status peminjaman barang, dengan data seperti nama barang, nama peminjam, waktu peminjaman dan juga status pengembalinya apakah sudah dikembalikan atau belum.

Halaman Profil

Praktikan dan Asisten melihat dan mengedit detail akun mereka

Halaman Utama



The image shows a dark-themed landing page for 'Digilend'. On the left, there's a large 'Welcome to Digilend!' title with 'DIGILEND' in a circular logo above it. Below the title is a descriptive paragraph about the website's purpose. At the bottom are 'LOGIN' and 'REGISTER' buttons. On the right, there's a 3D-style illustration of three people interacting with a large digital screen displaying various icons like a gear, a play button, a lightbulb, a stack of coins, a calendar, and a photo.

DIGILEND

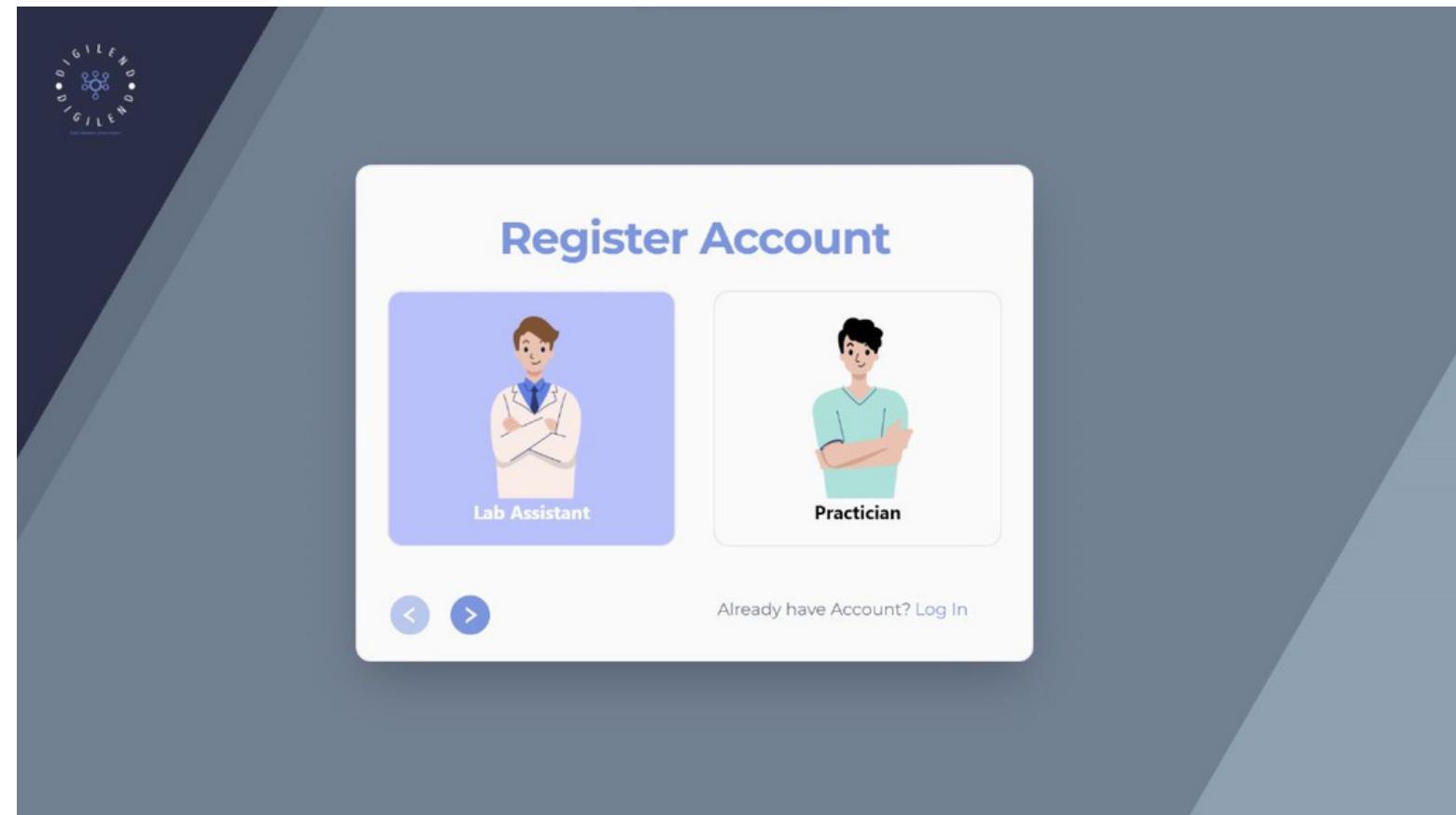
Welcome to Digilend!

Digilend is a user-friendly website catering to Practician and Lab Assistant. Easily register and login to explore our inventory of available items. Practician can request and return items, with a maximum borrowing period of one month. Experience the convenience of Digilend for seamless borrowing and returning processes.

[LOGIN](#) [REGISTER](#)

25

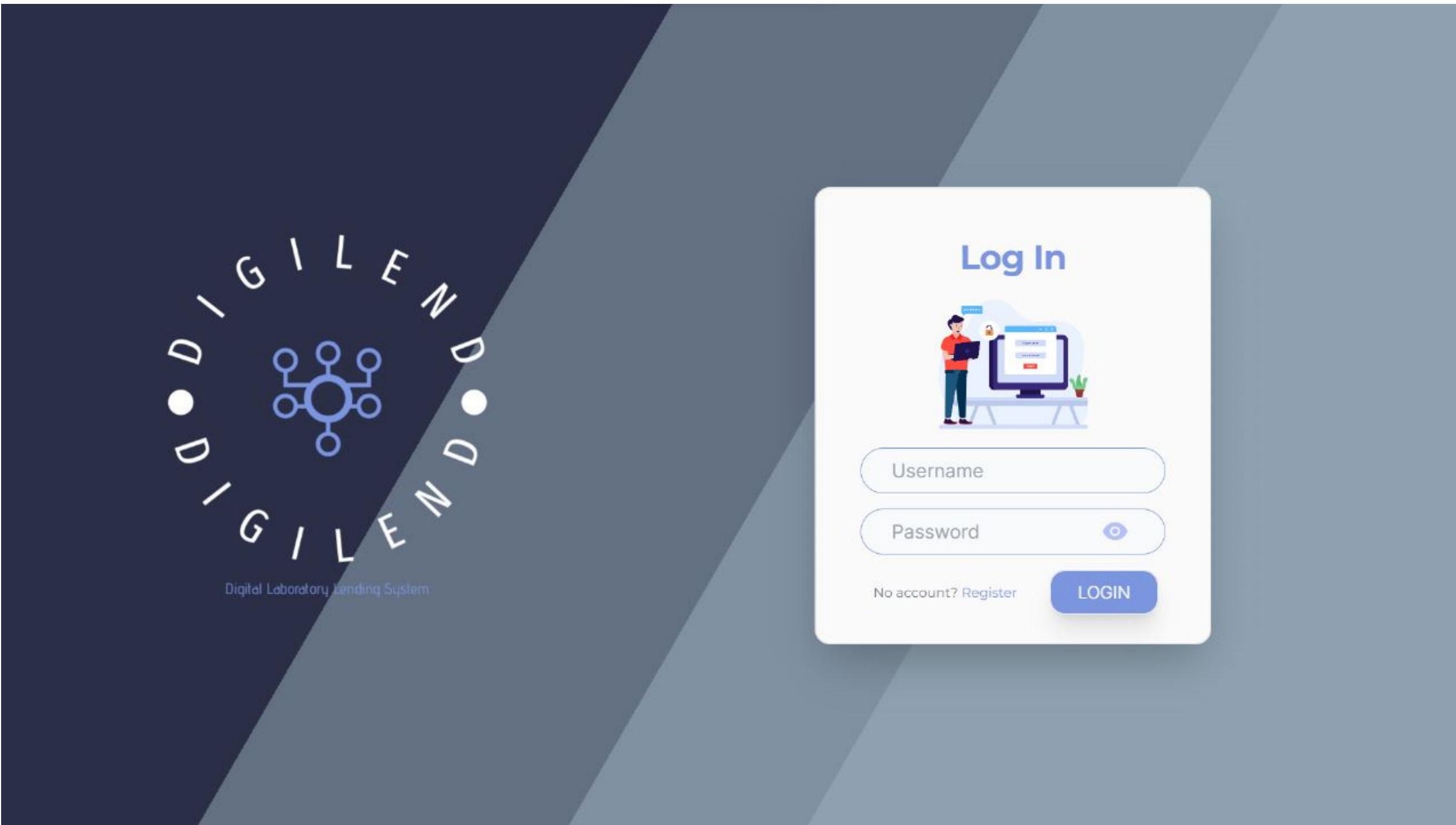
Halaman Registrasi



The screenshot shows a registration interface with a dark blue header featuring the DIGILEND logo. Below the header is a large white rectangular form titled "Register Account". It contains five input fields: "Full Name", "Student ID Number", a dropdown menu for "Electrical Engineering", "Phone Number", and "Lab Assistant Code". At the bottom left are navigation arrows, and at the bottom right is a link to "Already have Account? Log In".

The screenshot shows a registration interface with a dark blue header featuring the DIGILEND logo. Below the header is a large white rectangular form titled "Register Account". It contains two input fields: "Username" and "Password". Above the "Username" field is an icon of a computer monitor with a padlock and gears. At the bottom right is a blue "REGISTER" button. At the bottom left are navigation arrows, and at the bottom right is a link to "Already have Account? Log In".

Halaman Login

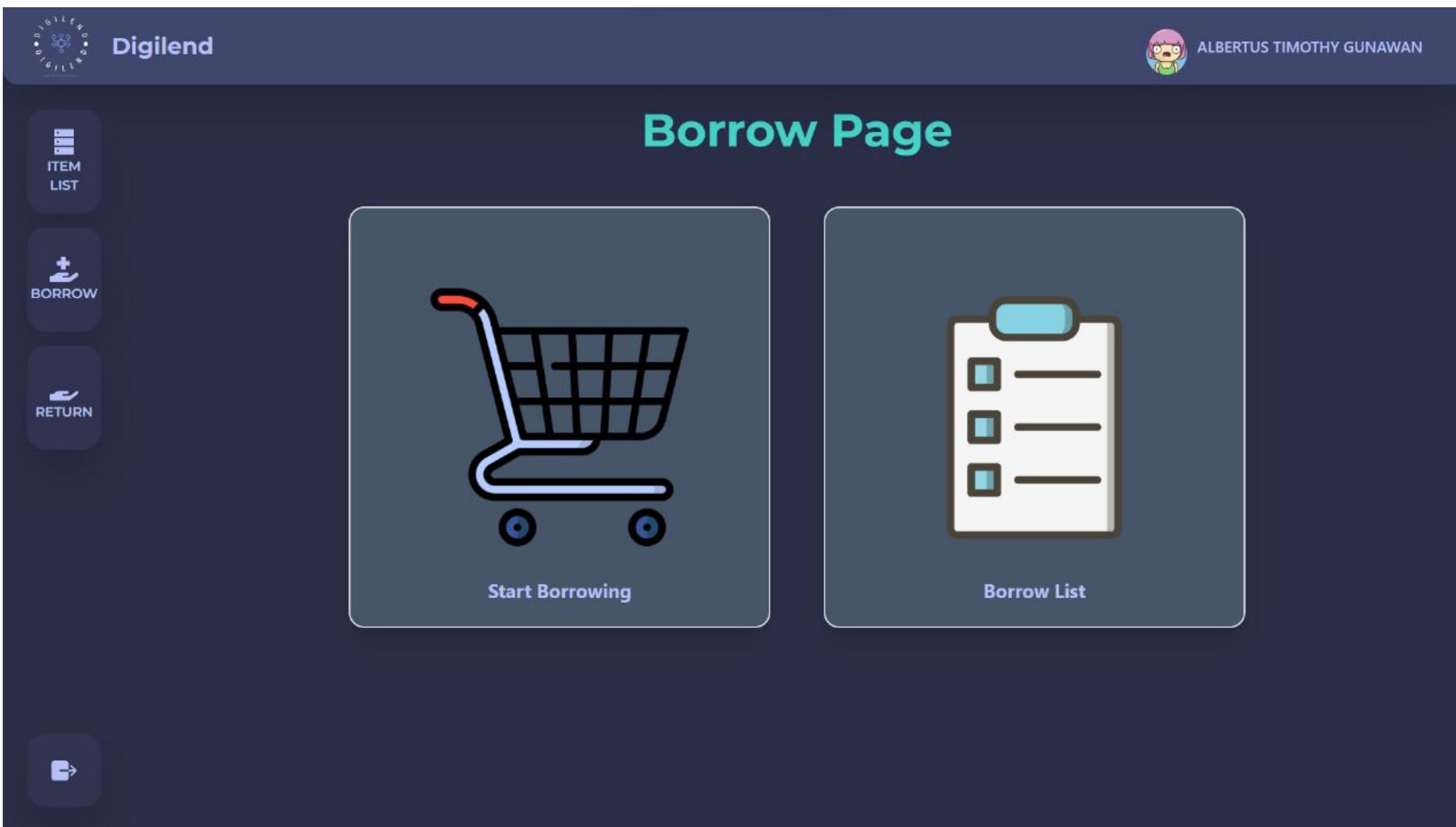


Halaman List Barang (praktikan)

The screenshot shows the 'Item List' page of the Digilend application. At the top, there is a header bar with the 'Digilend' logo on the left and a user profile picture with the name 'ALBERTUS TIMOTHY GUNAWAN' on the right. Below the header, there are three main buttons: 'ITEM LIST' (with a list icon), 'BORROW' (with a plus and hand icon), and 'RETURN' (with a minus and hand icon). To the right of these buttons is a search bar with the placeholder 'Search' and a magnifying glass icon. The main content area is titled 'Item List' in large, bold, teal font. It displays a table of items with the following columns: 'ITEM NAME', 'QUANTITY', 'PRICE', and 'ACTION'. The table contains the following data:

	ITEM NAME	QUANTITY	PRICE	ACTION
2	4-bit PIP Register	13	5000	⋮
3	7-Segment Common Cathode	12	30000	⋮
1	7408 Quadruple AND Gate	9	15000	⋮
4	AND Gate	45	50000	⋮
5	BCD to Seven Segment Decoder	74	75000	⋮
8	Counter 4-bit	90	60000	⋮
11	Decade Counter	77	70000	⋮

Halaman Peminjaman (praktikan)



Halaman Peminjaman (praktikan)

The image displays two side-by-side screenshots of a mobile application interface for 'Digilend'. The top navigation bar features the 'Digilend' logo, a user profile icon for 'ALBERTUS TIMOTHY GUNAWAN', and a back arrow. The main title 'Borrow Page' is centered above a large button labeled 'DigiCard'.

Screenshot 1 (Left): This screen shows the initial step of the borrowing process. It contains two input fields, each with a placeholder number ('2' and '3') and a green 'NEXT' button at the bottom right.

Screenshot 2 (Right): This screen shows the second step of the borrowing process. It displays the following details:

Item's ID:	2
Item's Name:	4-bit PIPO Register
Quantity:	3
Item's Price:	Rp. 5000

At the bottom are red 'BACK' and green 'SUBMIT' buttons.

Halaman Peminjaman (praktikan)

Digilend

ALBERTUS TIMOTHY GUNAWAN

Borrow Page

ITEM LIST

Search

BORROW

RETURN

RETURN

RETURN

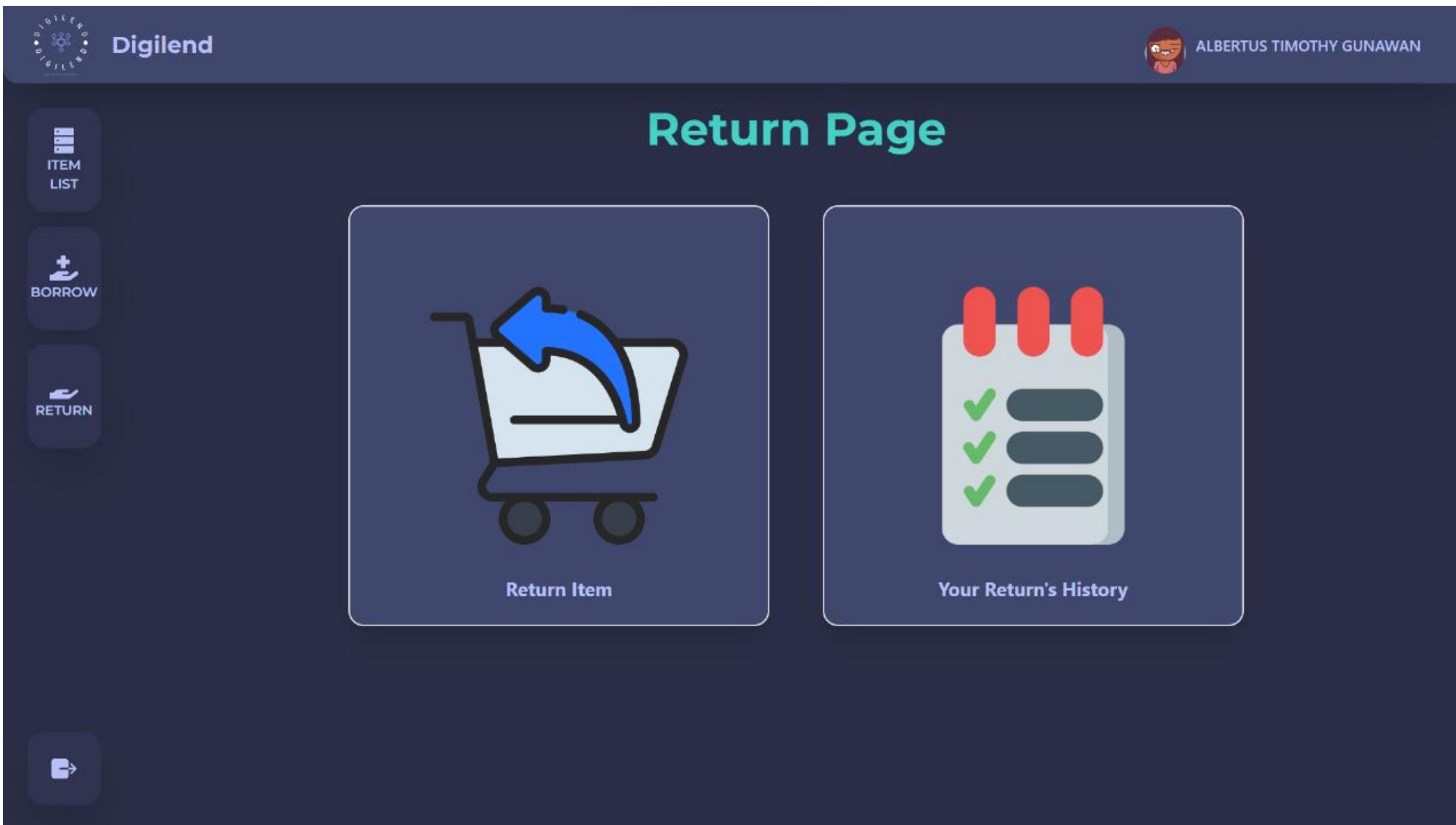
RETURN

RETURN

RETURN

BORROW'S ID	ITEM'S ID	ITEM'S NAME	QUANTITY	DEADLINE	
49	9	Multiplexer 8-to-1	10	11-07-2023	<button>RETURN</button>
50	6	Flip-Flop D	4	11-07-2023	<button>RETURN</button>
43	10	Shift Register	2	10-07-2023	<button>RETURN</button>
45	2	4-bit PIPO Register	2	10-07-2023	<div><p>⚠ Item: AND Gate Days Remaining: 5 Days</p></div>
42	7	XOR Gate	4	10-07-2023	<div><p>⚠ Item: Digital Servo Days Remaining: 6 Days</p></div>
41	11	Decade Counter	3	10-07-2023	<div><p>⚠ Item: Shift Register Days Remaining: 4 Days</p></div>
40	13	Full Adder	2	10-07-2023	<button>RETURN</button>

Halaman Pengembalian (praktikan)



Halaman Pengembalian (praktikan)

Digilend

ALBERTUS TIMOTHY GUNAWAN

← Return Page

ITEM LIST

BORROW

RETURN

Search

BORROW'S ID	RETURN AMOUNT	RETURN TIMESTAMP	PENALTY	COMPENSATION	TOTAL PENALTY	PROOF OF PAYMENT
34	39	2	11-06-2023	Rp0	Rp40000	Rp40000
35	50	4	11-06-2023	Rp0	Rp0	Rp0
36	46	3	11-06-2023	Rp0	Rp0	Rp0
27	37	3	10-06-2023	Rp0	Rp10000	Rp10000
28	37	1	10-06-2023	Rp0	Rp20000	Rp20000
29	38	5	10-06-2023	Rp0	Rp0	Rp0

→

Digilend

ALBERTUS TIMOTHY GUNAWAN

← Return Page

ITEM LIST

BORROW

RETURN

DigiCard

49
3
link.jpg

SUBMIT

→

Halaman Profil (praktikan)

The screenshot shows the 'Edit Profile' screen of the Digilend app. At the top left is the Digilend logo, and at the top right is a user profile picture with the name 'ALBERTUS TIMOTHY GUNAWAN'. On the left side, there is a vertical navigation bar with three buttons: 'ITEM LIST', 'BORROW', and 'RETURN'. At the bottom left is a button with a square and arrow icon. The main content area features a central illustration of a person holding a tablet, standing next to a computer monitor displaying a profile picture. To the right of the illustration are several profile details:

- Name:** Albertus Timothy Gunawan
- Student ID:** 2206639222
- Telephone Number:** 087888865678
- Group Name:** (empty field)

At the bottom right of the main area is a blue button labeled 'EDIT PROFILE' with a pencil icon.

Halaman Profil (praktikan)

The screenshot shows the 'Edit Profile' screen of the Digilend app. At the top left is the 'Digilend' logo, and at the top right is a user profile icon with the name 'ALBERTUS TIMOTHY GUNAWAN'. On the left side, there is a vertical navigation bar with three buttons: 'ITEM LIST', 'BORROW', and 'RETURN'. In the center, there is a large button labeled 'Edit Profile' in red. Below it is a decorative illustration of a person holding a tablet next to a computer monitor, with a play button icon above the monitor. To the right of the illustration are five input fields for profile information:

Name	Albertus Timothy Gunawan
Student ID	2206639222
Telephone Number	087888865678
Academic Year	2023-2024
Group Name	B5

At the bottom right are two buttons: 'SAVE' (in blue) and 'CANCEL'.

Item List (aslab)

Digilend



ALTHAF NAFI ANWAR

ITEM LIST

Search 

ADD ITEM 

	ITEM NAME	QUANTITY	PRICE	ACTION
2	4-bit PIP Register	13	5000	
3	7-Segment Common Cathode	12	30000	
1	7408 Quadruple AND Gate	9	15000	
4	AND Gate	45	50000	
5	BCD to Seven Segment Decoder	74	75000	
8	Counter 4-bit	90	60000	
11	Decade Counter	77	70000	

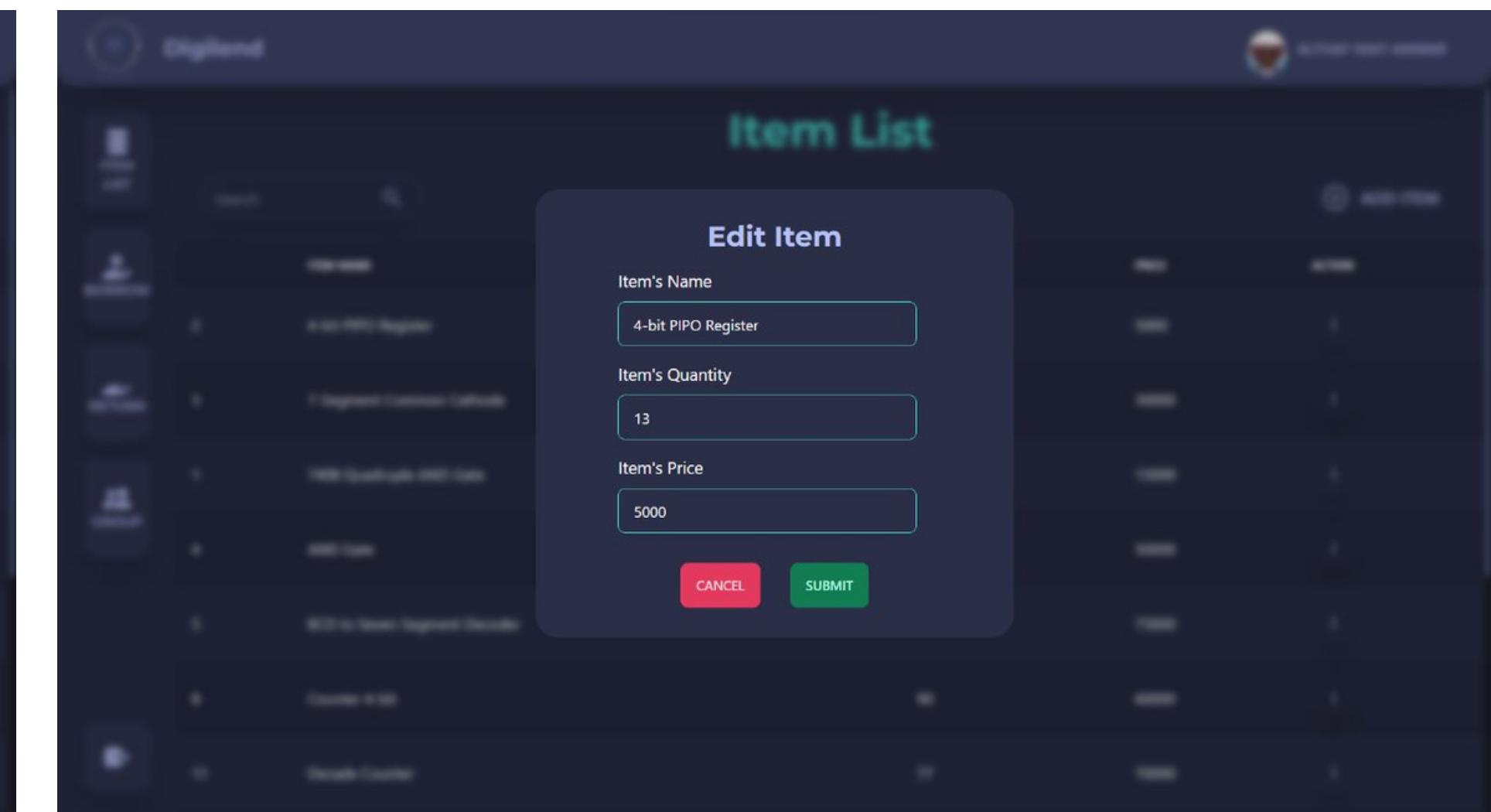
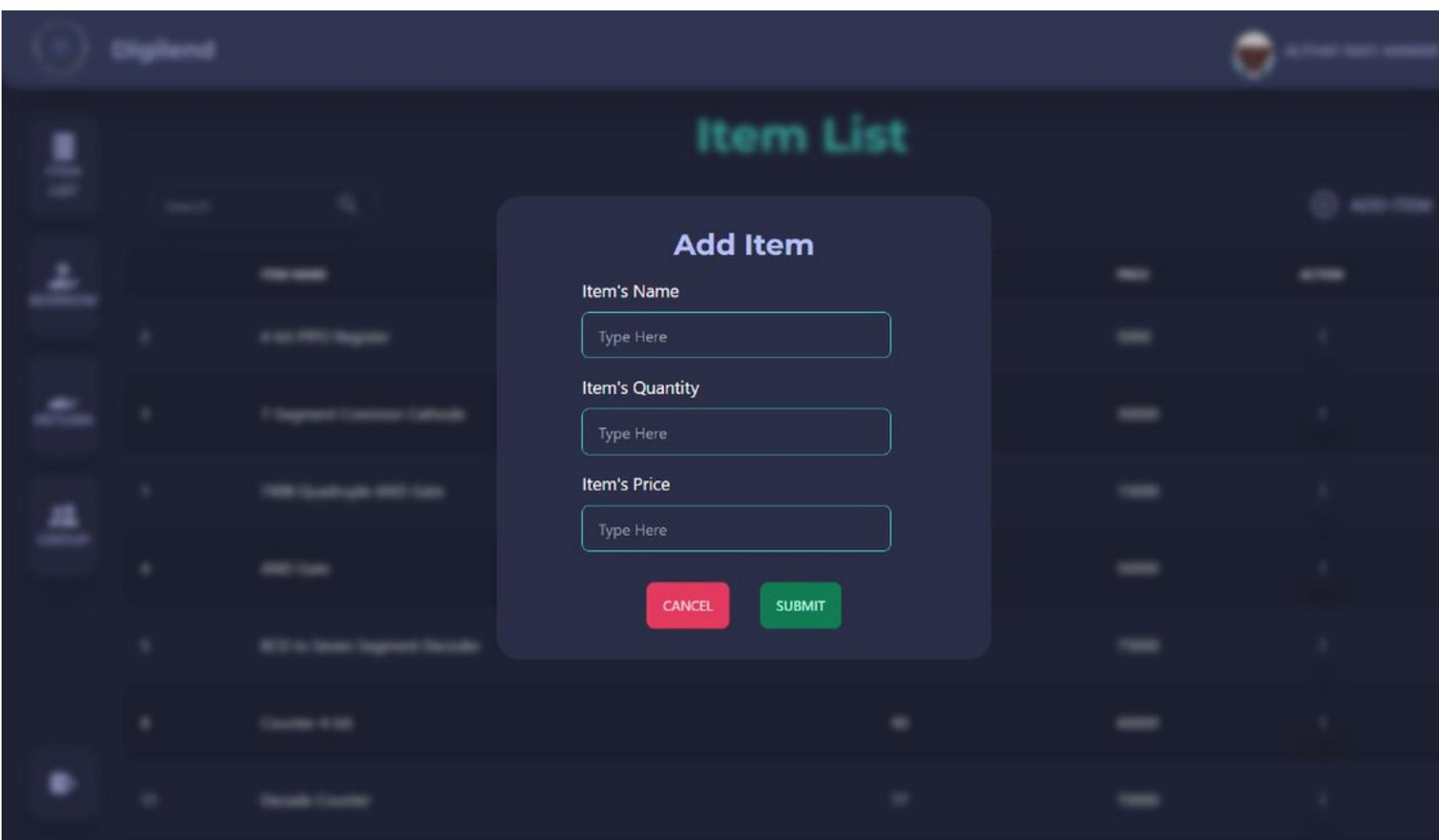
BORROW 

RETURN 

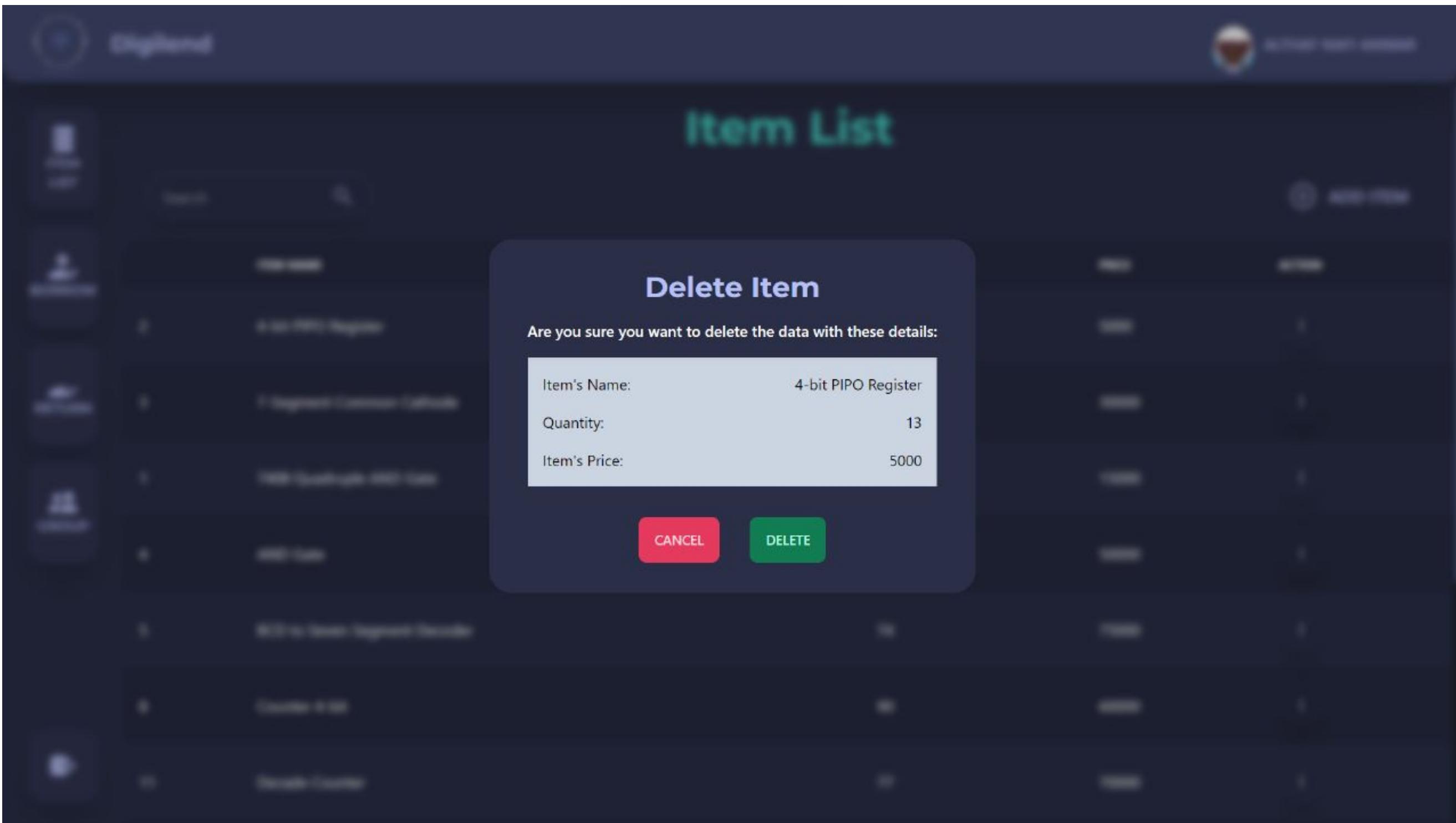
GROUP 



Item List (aslab)



Item List (aslab)



Halaman Peminjaman (aslab)

Digilend

ALTHAF NAFI ANWAR

Borrow Page

ITEM LIST

BORROW

RETURN

GROUP

Search

ITEM'S ID	ITEM'S NAME	USER'S ID	QUANTITY	DEADLINE	DELETE
49	Multiplexer 8-to-1	29	10	11-07-2023	<button>DELETE</button>
50	Flip-Flop D	29	4	11-07-2023	<button>DELETE</button>
39	Flip-Flop D	29	3	10-07-2023	<button>DELETE</button>
37	4-bit PIPO Register	29	5	10-07-2023	<button>DELETE</button>
38	4-bit PIPO Register	29	5	10-07-2023	<button>DELETE</button>
43	Shift Register	29	2	10-07-2023	<button>DELETE</button>
45	4-bit PIPO Register	29	2	10-07-2023	<button>DELETE</button>

ALTHAF NAFI ANWAR

Borrow Page

Delete Item

Are you sure you want to delete the data with these details:

Borrower's ID:	49
Item's ID:	9
Quantity:	10
Practician's ID:	29
Return's Deadline:	11-07-2023

CANCEL DELETE

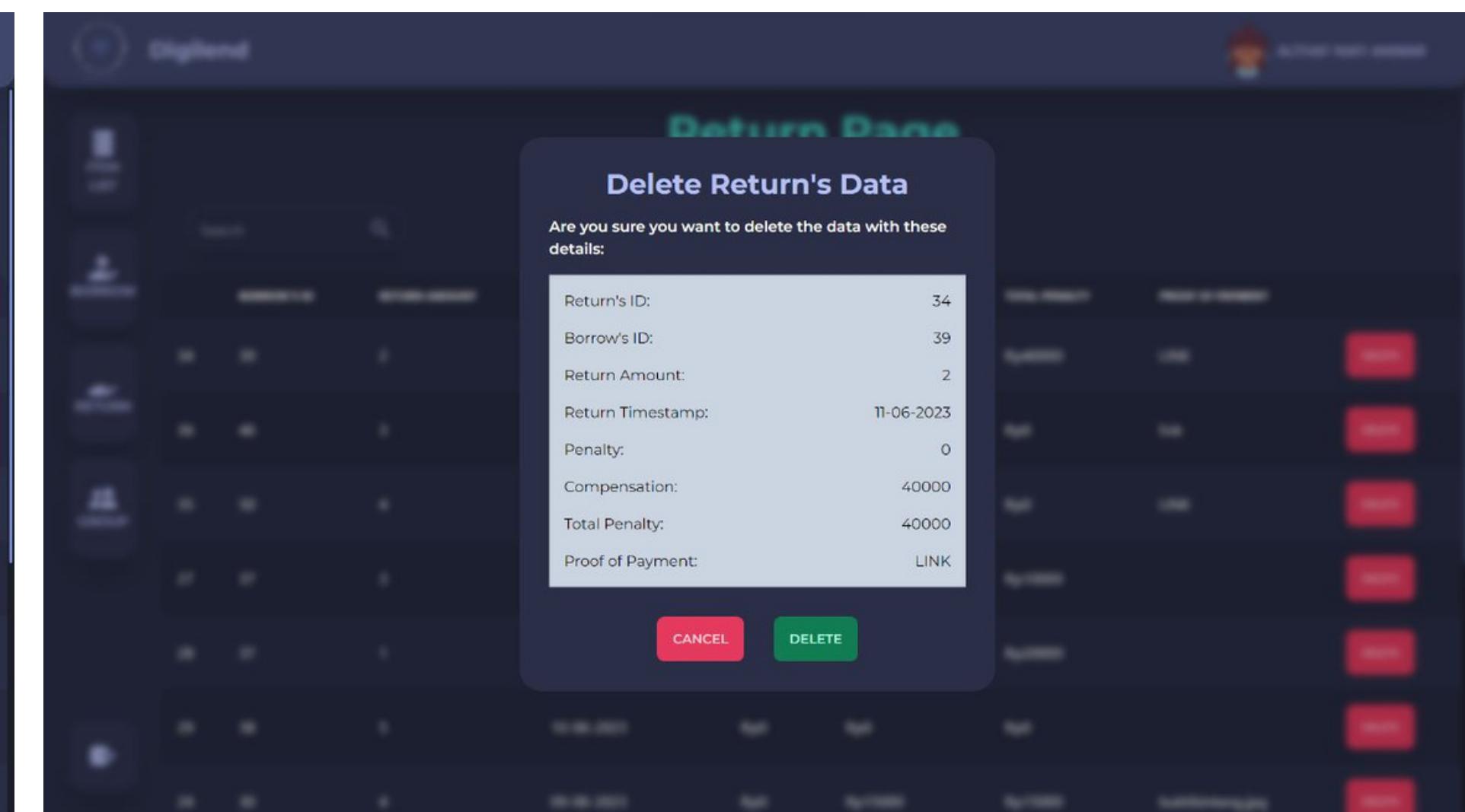
Halaman Pengembalian (aslab)

Digidend

ALTHAF NAFI ANWAR

Return Page

BORROW'S ID	RETURN AMOUNT	RETURN TIMESTAMP	PENALTY	COMPENSATION	TOTAL PENALTY	PROOF OF PAYMENT	DELETE	
34	39	2	11-06-2023	Rp0	Rp40000	Rp40000	LINK	<button>DELETE</button>
36	46	3	11-06-2023	Rp0	Rp0	Rp0	link	<button>DELETE</button>
35	50	4	11-06-2023	Rp0	Rp0	Rp0	LINK	<button>DELETE</button>
27	37	3	10-06-2023	Rp0	Rp10000	Rp10000		<button>DELETE</button>
28	37	1	10-06-2023	Rp0	Rp20000	Rp20000		<button>DELETE</button>
29	38	5	10-06-2023	Rp0	Rp0	Rp0		<button>DELETE</button>
24	30	4	09-06-2023	Rp0	Rp15000	Rp15000	buktibintang.jpg	<button>DELETE</button>



Halaman Kelompok (aslab)

Digilend



ALTHAF NAFI ANWAR

Group List

ITEM LIST

Search 

BORROW

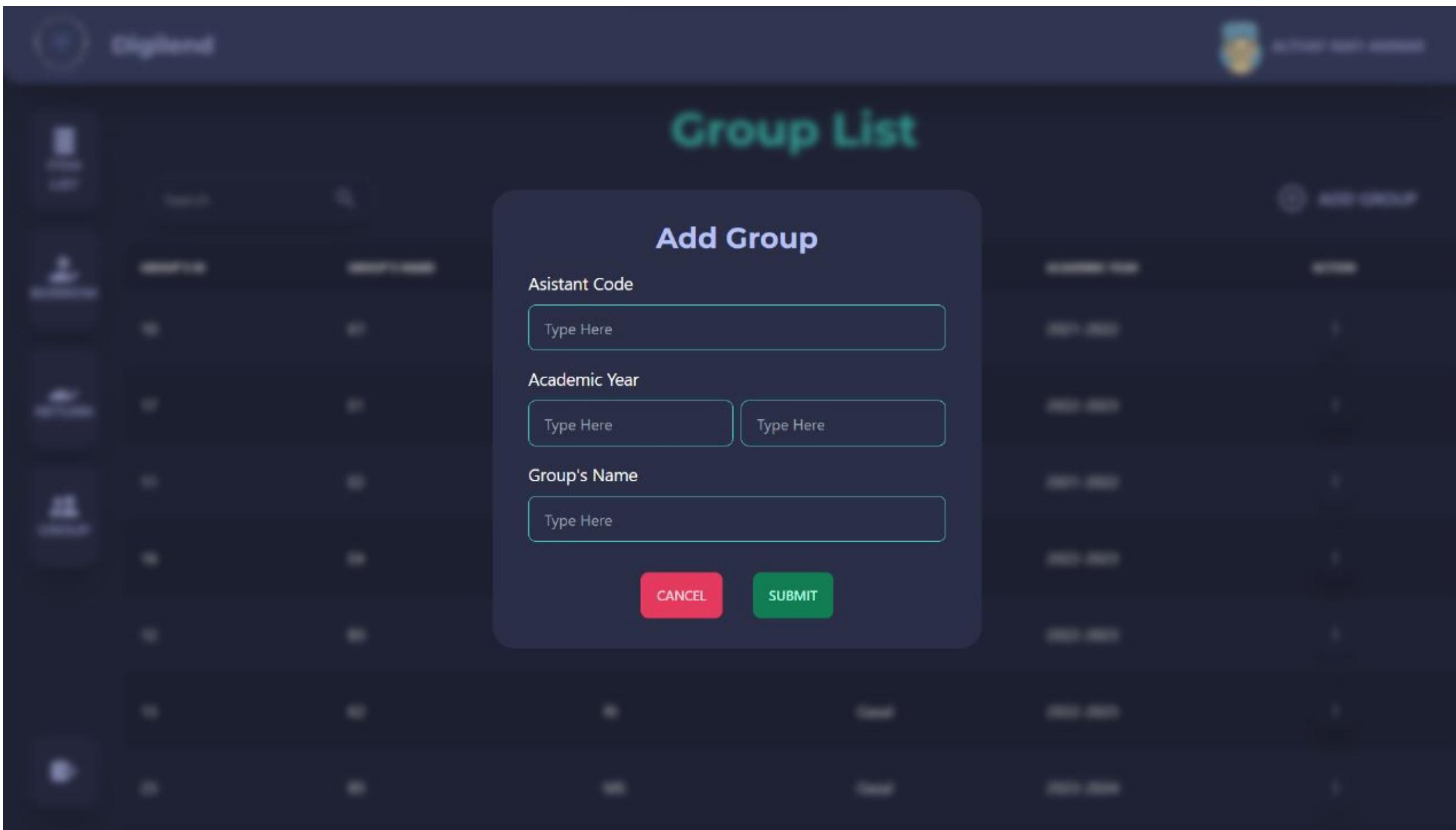
RETURN

GROUP

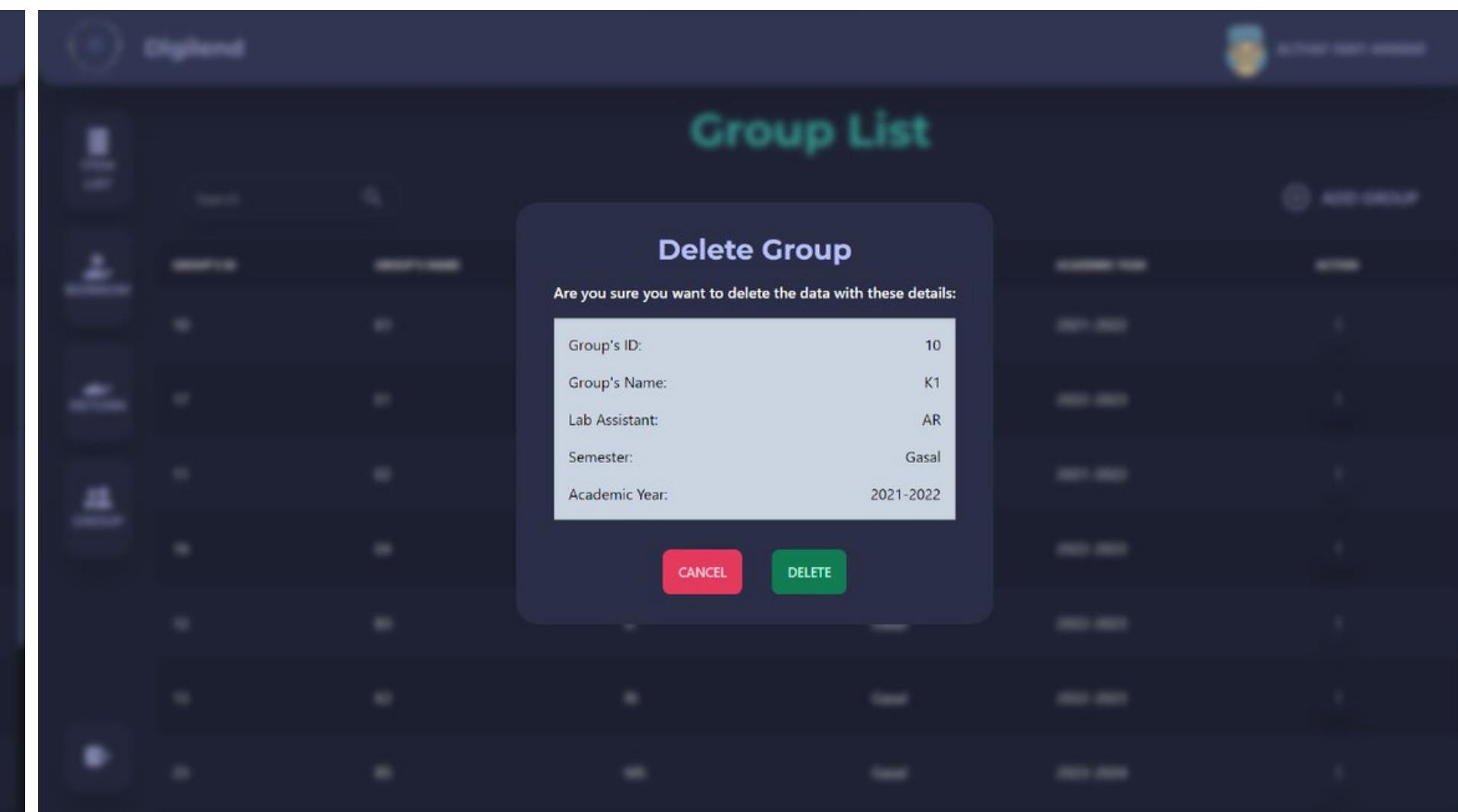
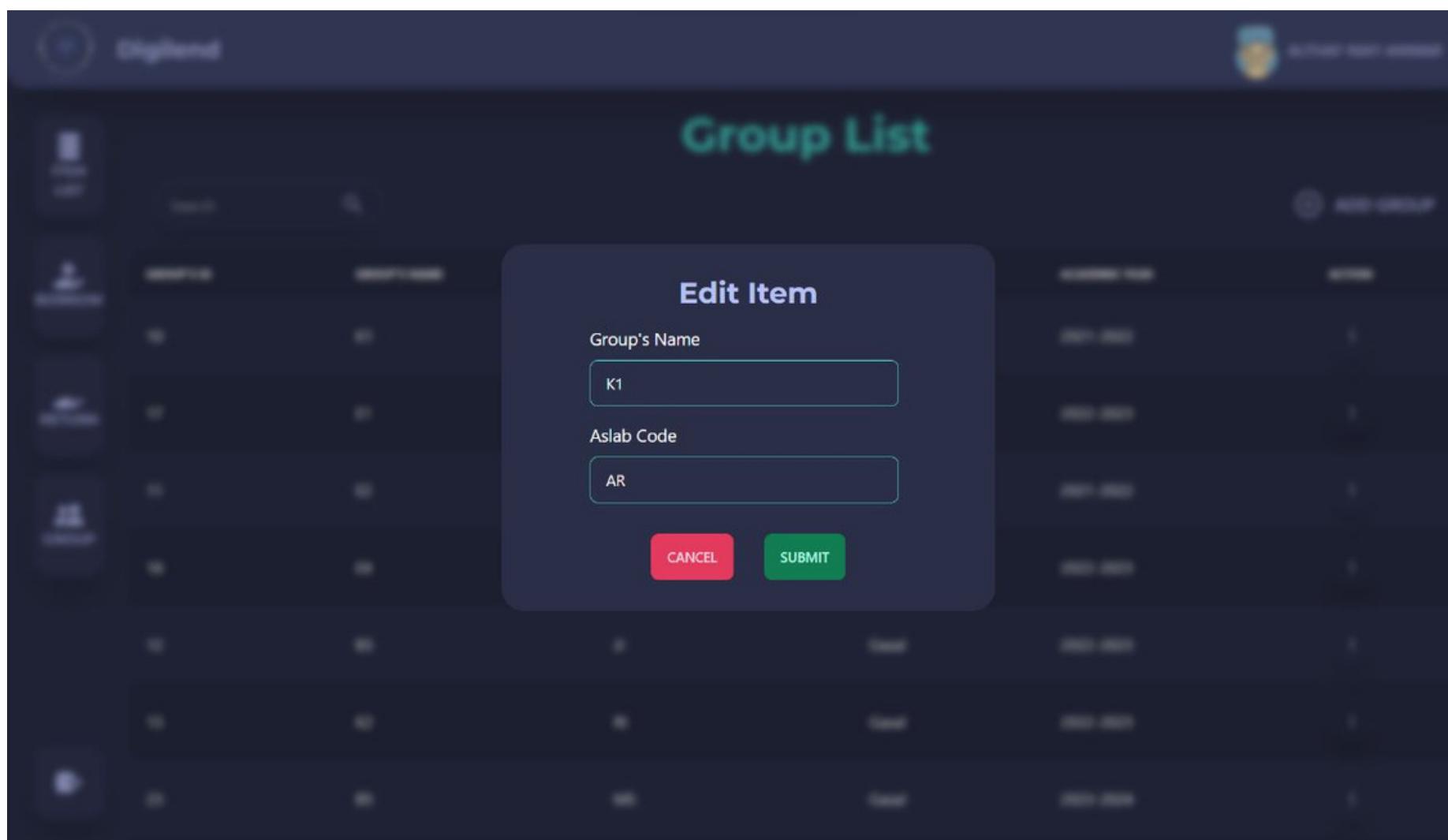
ADD GROUP

GROUP'S ID	GROUP'S NAME	LAB ASSISTANT	SEMESTER	ACADEMIC YEAR	ACTION
10	K1	AR	Gasal	2021-2022	
17	E1	AR	Genap	2022-2023	
11	E2	AJ	Genap	2021-2022	
16	E4	JJ	Genap	2022-2023	
12	B3	JJ	Gasal	2022-2023	
13	K2	RI	Gasal	2022-2023	
23	B5	MS	Gasal	2023-2024	

Halaman Kelompok (aslab)



Halaman Kelompok (aslab)



Halaman Profil (aslab)

Digilend



ALTHAF NAFI ANWAR

Edit Profile



Name:
Althaf Nafi Anwar

Student ID:
2104242

Telephone Number:
087888865678

Asistant Code:
ANA

Asistant Status :
active

 EDIT PROFILE

- **ITEM LIST**
- **BORROW**
- **RETURN**
- **GROUP**
- 

Halaman Profil (aslab)

Digilend

ALTHAF NAFI ANWAR

ITEM LIST

BORROW

RETURN

GROUP

Edit Profile

Name: Althaf Nafi Anwar

Student ID: 2104242

Telephone Number: 087888865678

Asistant Code: ANAL

Asistant Status: Active

SAVE CANCEL

Halaman Error



Oops...

404

It seems you've taken a wrong turn and ended up in the land of lost webpages.

[HOME](#)

A 404 error page featuring a dark blue background. On the left, there's a circular illustration of a man in a trench coat and hat, holding a magnifying glass, looking at a large, dark handprint on the ground. A small dog is standing next to the handprint. The text "Oops..." is in a light blue font above the number "404". Below "404" is a message in white text: "It seems you've taken a wrong turn and ended up in the land of lost webpages.". At the bottom right is a red button with the word "HOME" in white capital letters.

Back End

Rute Praktikan

POST /api/praktikans/register: Mendaftarkan praktikan baru.

POST /api/praktikans/login: Login praktikan.

GET /api/praktikans/me: Mendapatkan detail profil praktikan yang sedang login.

PUT /api/praktikans/:id_praktikan: Mengedit detail profil praktikan.

Rute Asisten

POST /api/asistens/login: Login asisten.

POST /api/asistens/register: Mendaftarkan asisten baru.

GET /api/asistens/me: Mendapatkan detail profil asisten yang sedang login.

PUT /api/asistens/:id_asisten: Mengedit detail profil asisten.

Rute Barang

GET /api/barangs: Melihat daftar barang yang tersedia.

PUT /api/barangs/:id_barang: Mengedit detail barang.

Rute Peminjaman

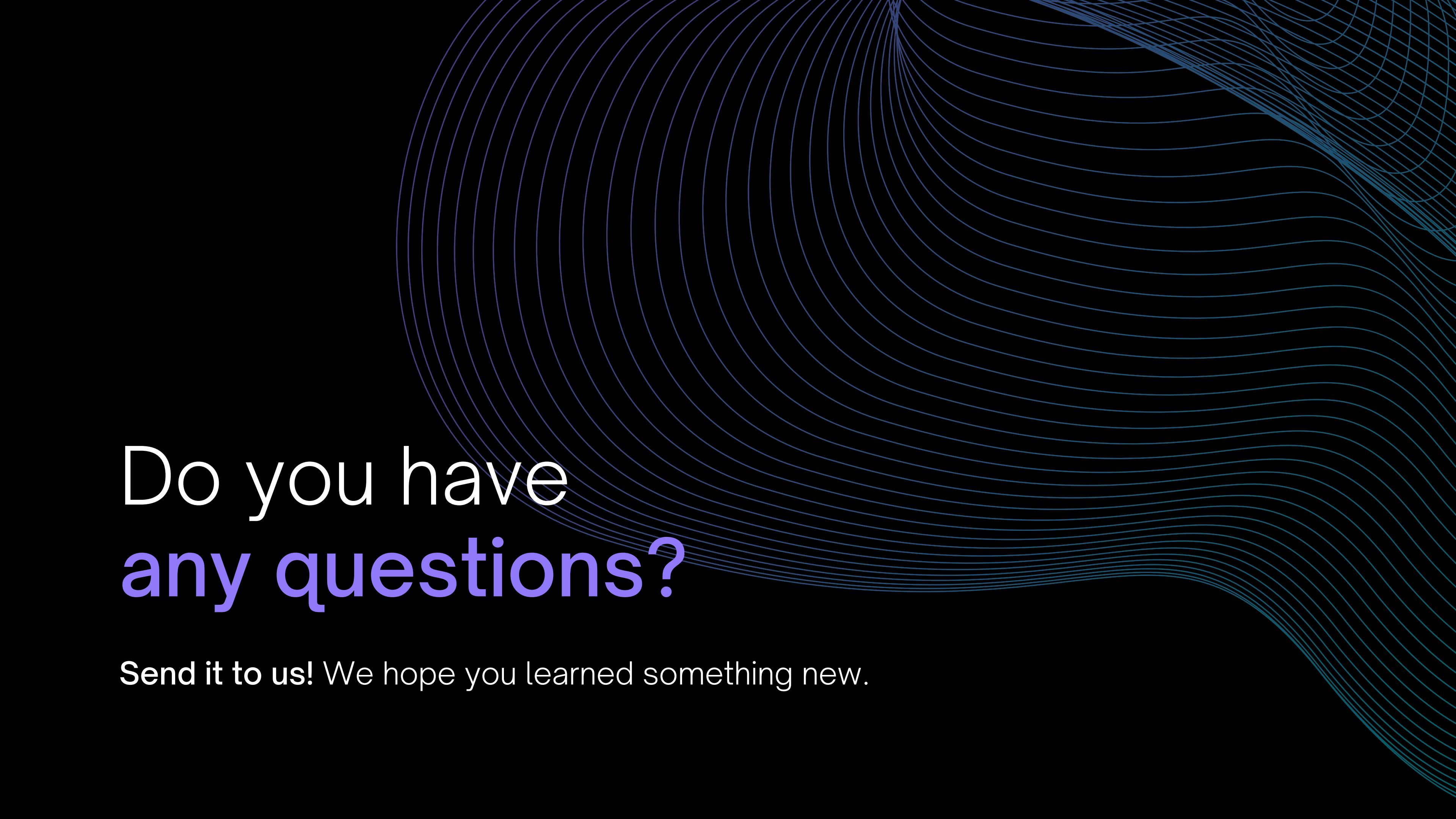
GET /api/pengembalians: Melihat status pengembalian barang.

GET /api/peminjamans: Melihat status peminjaman praktikan.

RUTE PENGEMBALIAN

GET /api/pengembalians: Melihat status pengembalian barang.

POST /api/pengembalians: Melakukan pengembalian barang.

The background features a dark gray to black gradient with a subtle, flowing pattern of thin, light blue wavy lines that curve from the bottom right towards the top left.

Do you have
any questions?

Send it to us! We hope you learned something new.