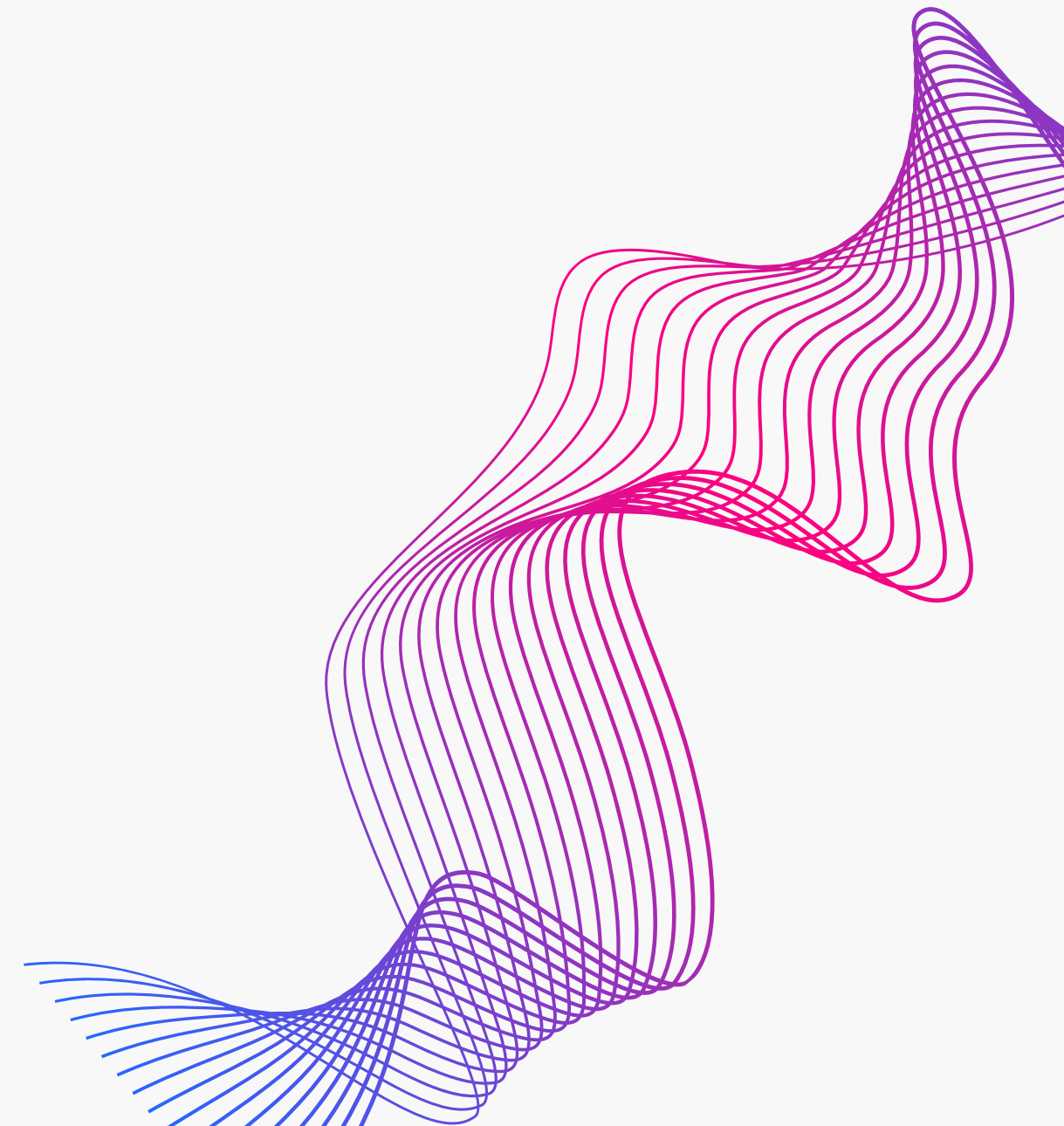


**PHASE 3 - IMPLEMENTATION**  
**MINI-PROJECT - DATABASE**  
**PROGRAMMING**

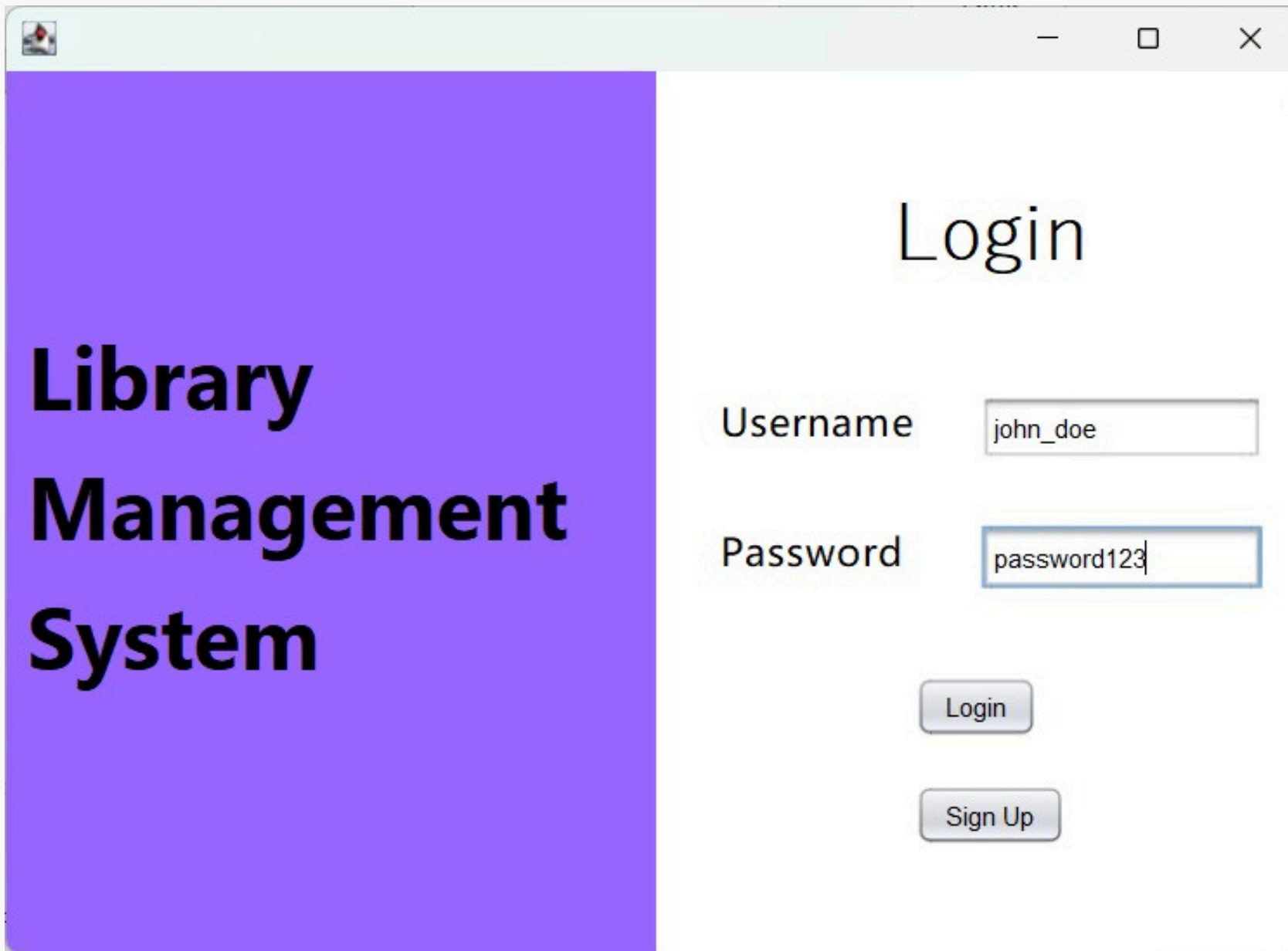
# Implementation

The implementation part of this presentation includes the below features:

- Login with worker id
- Home page
- Create worker id
- Adding new member
- View all members
- Search for members
- Add new book
- View all books
- Search for books
- Check if member of book is found before entering them
- Lend a book
- Return book
- View total number of books lent on the home page



# Implementation - Login with worker id



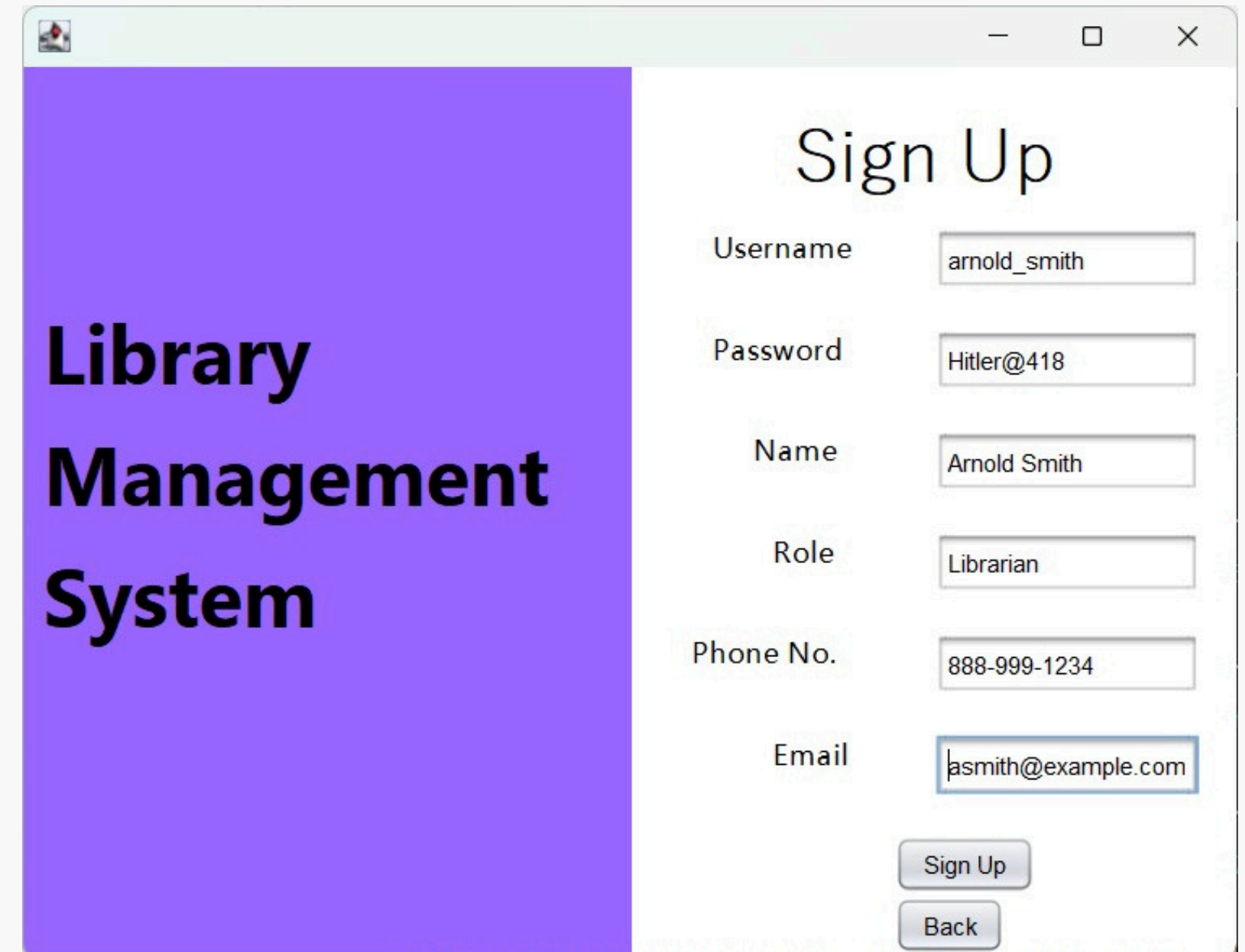
A screenshot of a web browser window displaying the 'Login' page of a 'Library Management System'. The left sidebar is purple with the text 'Library Management System' in white. The main content area is white and titled 'Login'. It contains two input fields: 'Username' with the value 'john\_doe' and 'Password' with the value 'password123'. Below the fields are two buttons: 'Login' and 'Sign Up'.

**Library Management System**

## Login

Username

Password



A screenshot of a web browser window displaying the 'Sign Up' page of a 'Library Management System'. The left sidebar is purple with the text 'Library Management System' in white. The main content area is white and titled 'Sign Up'. It contains five input fields: 'Username' with the value 'arnold\_smith', 'Password' with the value 'Hitler@418', 'Name' with the value 'Arnold Smith', 'Role' with the value 'Librarian', and 'Phone No.' with the value '888-999-1234'. Below these fields is an 'Email' field with the value 'asmith@example.com'. At the bottom right are two buttons: 'Sign Up' and 'Back'.

**Library Management System**

## Sign Up

Username

Password

Name

Role

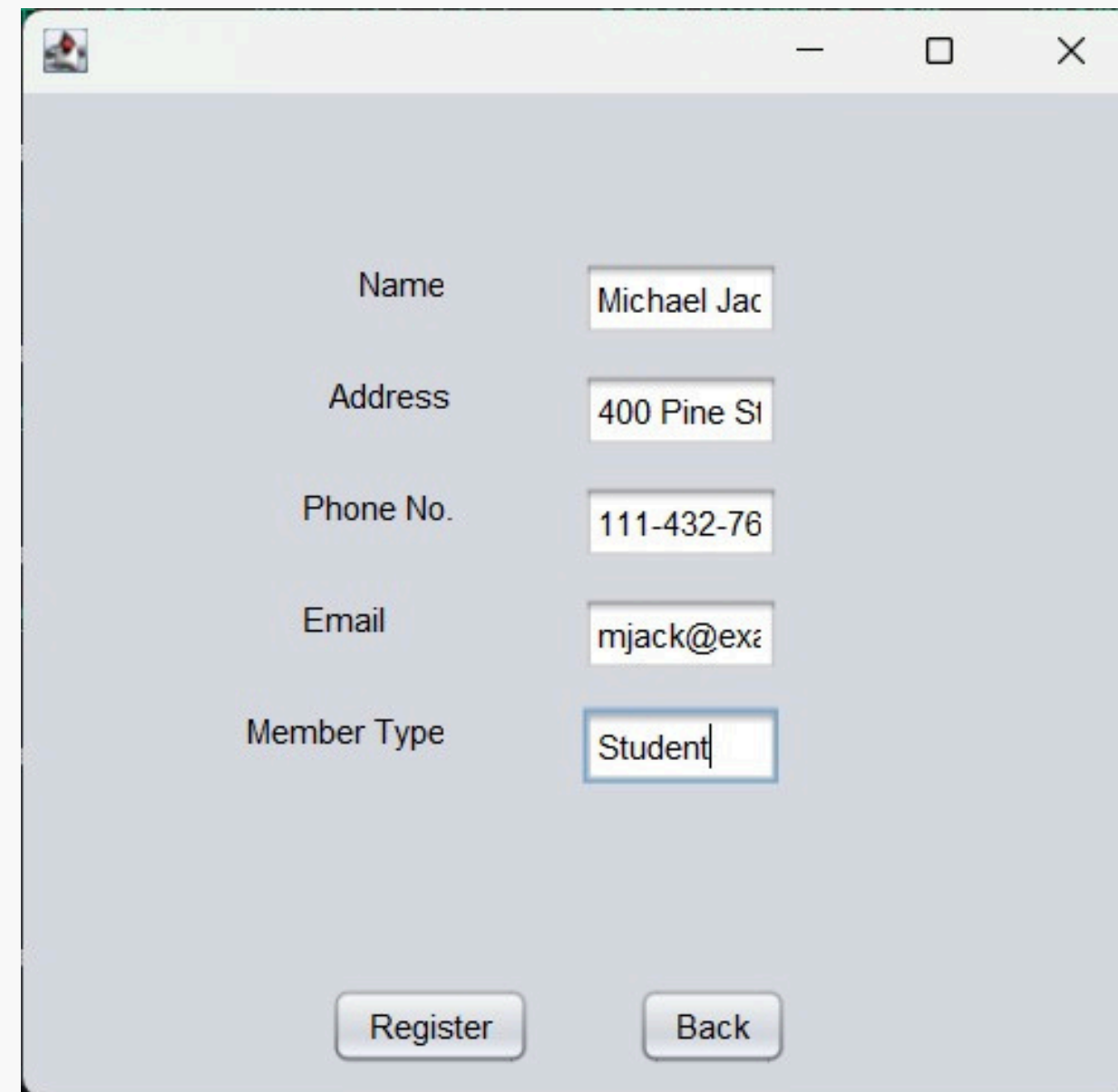
Phone No.

Email

# Implementation - Home Page

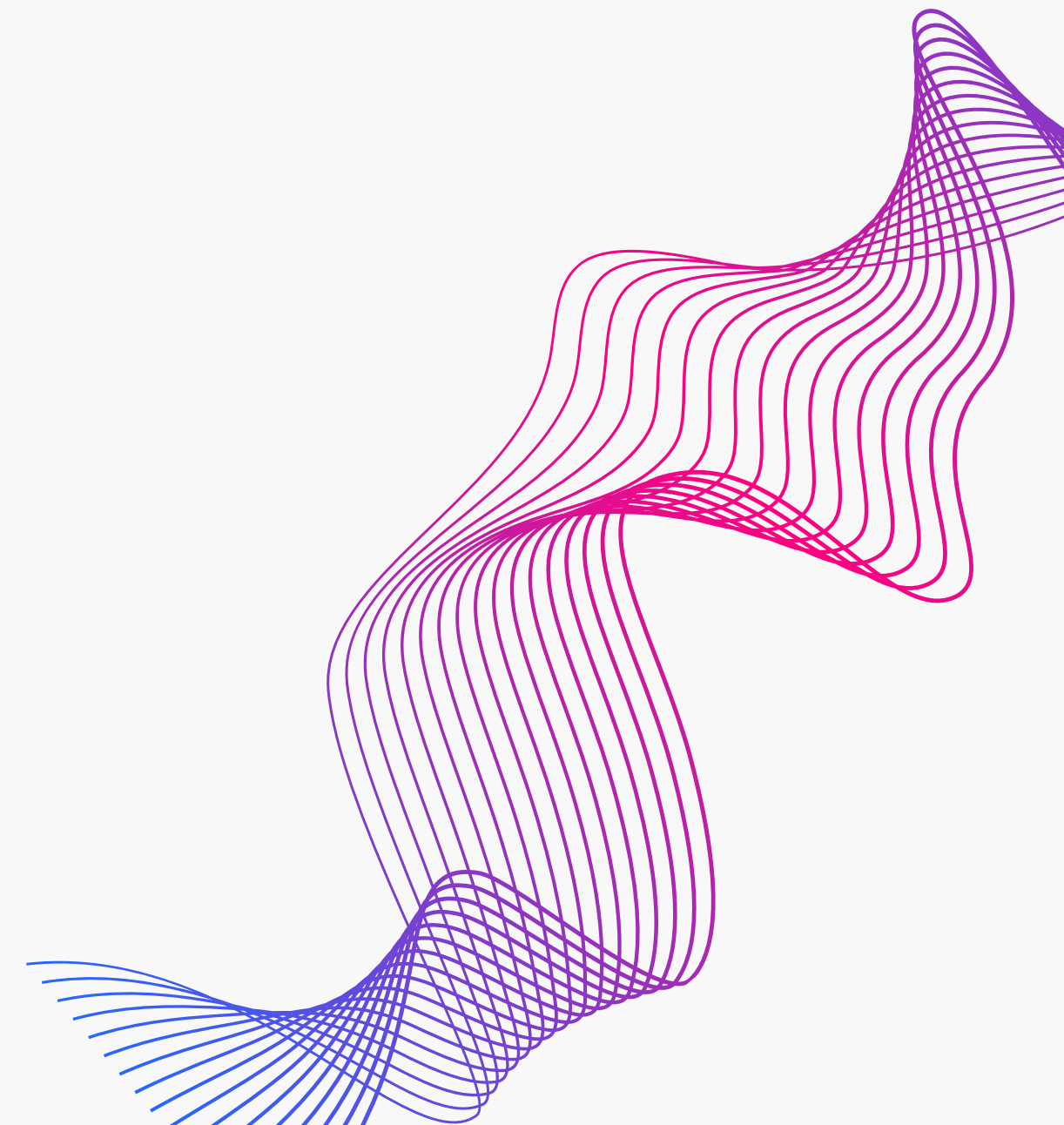


# Implementation - Adding new member



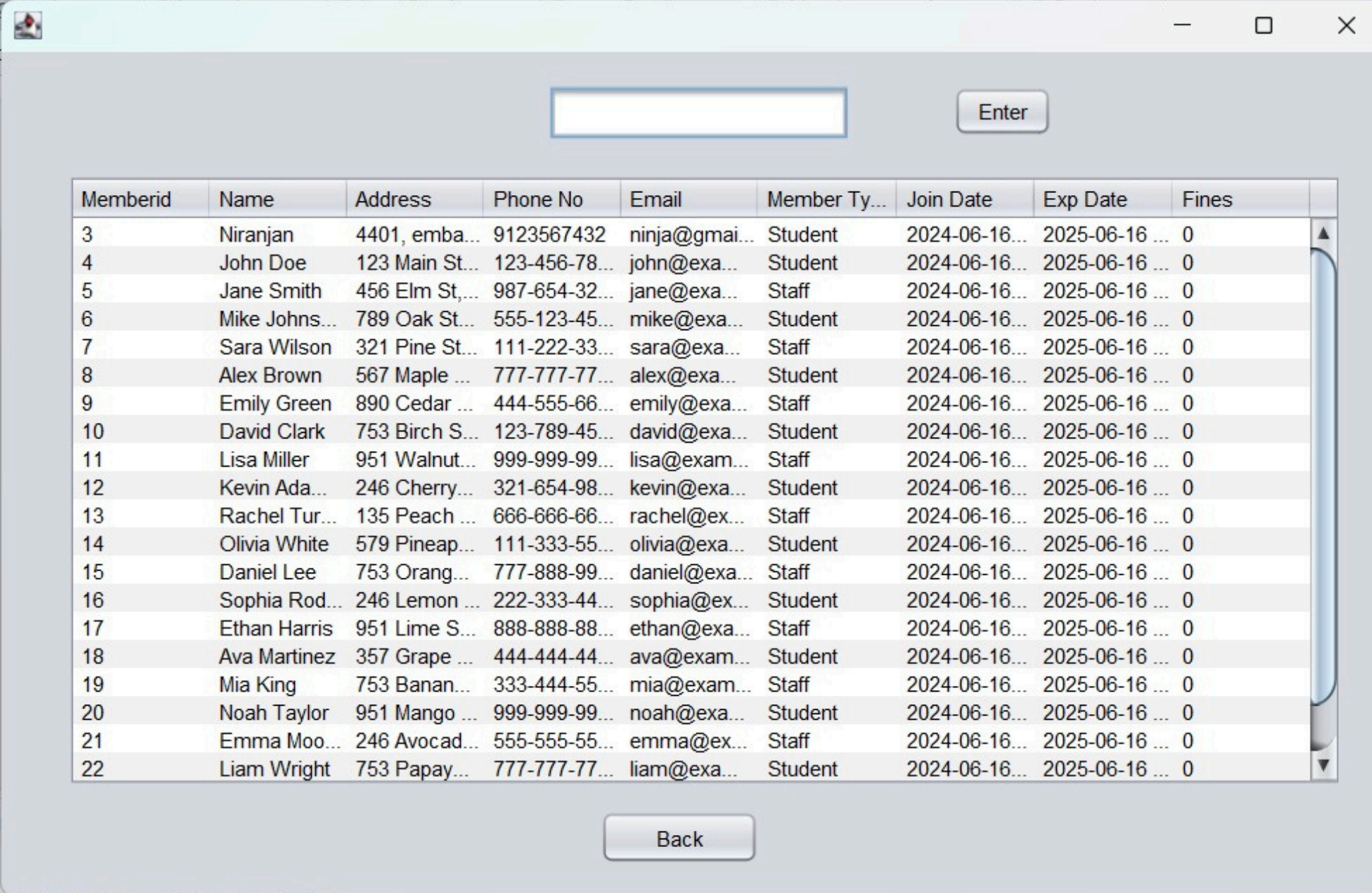
A screenshot of a Java Swing window titled "Adding new member" with a light gray background. The window contains five text input fields for "Name", "Address", "Phone No.", "Email", and "Member Type". The "Name" field contains "Michael Jac", "Address" contains "400 Pine St", "Phone No." contains "111-432-76", "Email" contains "mjack@exa", and "Member Type" contains "Student". At the bottom, there are two buttons: "Register" and "Back".

Field	Value
Name	Michael Jac
Address	400 Pine St
Phone No.	111-432-76
Email	mjack@exa
Member Type	Student



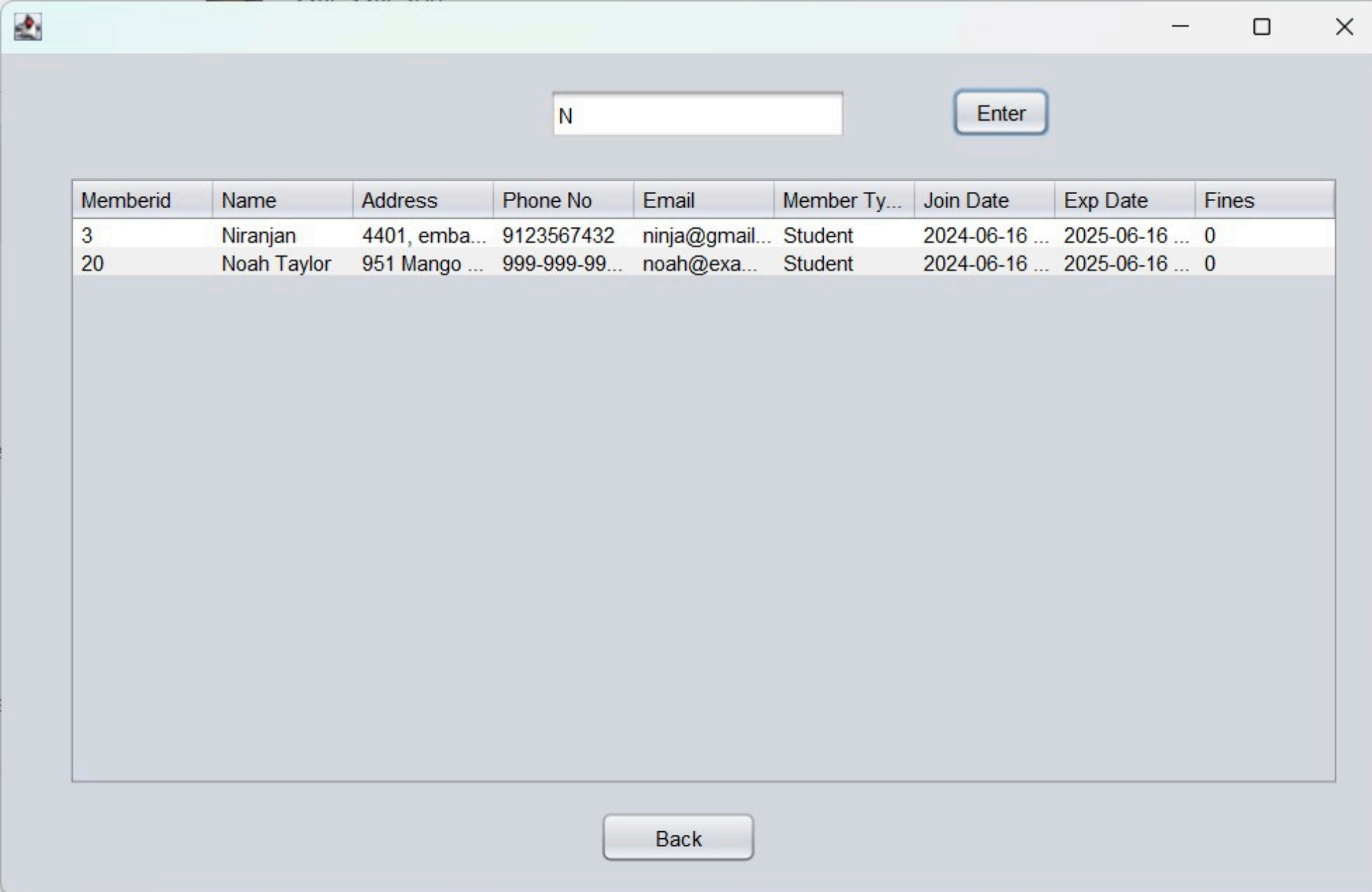


# Implementation - View all members



Memberid	Name	Address	Phone No	Email	Member Ty...	Join Date	Exp Date	Fines
3	Niranjana	4401, emba...	9123567432	ninja@gmai...	Student	2024-06-16...	2025-06-16 ...	0
4	John Doe	123 Main St...	123-456-78...	john@exa...	Student	2024-06-16...	2025-06-16 ...	0
5	Jane Smith	456 Elm St...	987-654-32...	jane@exa...	Staff	2024-06-16...	2025-06-16 ...	0
6	Mike Johns...	789 Oak St...	555-123-45...	mike@exa...	Student	2024-06-16...	2025-06-16 ...	0
7	Sara Wilson	321 Pine St...	111-222-33...	sara@exa...	Staff	2024-06-16...	2025-06-16 ...	0
8	Alex Brown	567 Maple ...	777-777-77...	alex@exa...	Student	2024-06-16...	2025-06-16 ...	0
9	Emily Green	890 Cedar ...	444-555-66...	emily@exa...	Staff	2024-06-16...	2025-06-16 ...	0
10	David Clark	753 Birch S...	123-789-45...	david@exa...	Student	2024-06-16...	2025-06-16 ...	0
11	Lisa Miller	951 Walnut...	999-999-99...	lisa@exam...	Staff	2024-06-16...	2025-06-16 ...	0
12	Kevin Ada...	246 Cherry...	321-654-98...	kevin@exa...	Student	2024-06-16...	2025-06-16 ...	0
13	Rachel Tur...	135 Peach ...	666-666-66...	rachel@ex...	Staff	2024-06-16...	2025-06-16 ...	0
14	Olivia White	579 Pineap...	111-333-55...	olivia@exa...	Student	2024-06-16...	2025-06-16 ...	0
15	Daniel Lee	753 Orang...	777-888-99...	daniel@exa...	Staff	2024-06-16...	2025-06-16 ...	0
16	Sophia Rod...	246 Lemon ...	222-333-44...	sophia@ex...	Student	2024-06-16...	2025-06-16 ...	0
17	Ethan Harris	951 Lime S...	888-888-88...	ethan@exa...	Staff	2024-06-16...	2025-06-16 ...	0
18	Ava Martinez	357 Grape ...	444-444-44...	ava@exam...	Student	2024-06-16...	2025-06-16 ...	0
19	Mia King	753 Banan...	333-444-55...	mia@exam...	Staff	2024-06-16...	2025-06-16 ...	0
20	Noah Taylor	951 Mango ...	999-999-99...	noah@exa...	Student	2024-06-16...	2025-06-16 ...	0
21	Emma Moo...	246 Avocad...	555-555-55...	emma@ex...	Staff	2024-06-16...	2025-06-16 ...	0
22	Liam Wright	753 Papay...	777-777-77...	liam@exa...	Student	2024-06-16...	2025-06-16 ...	0

# Implementation - Search for members

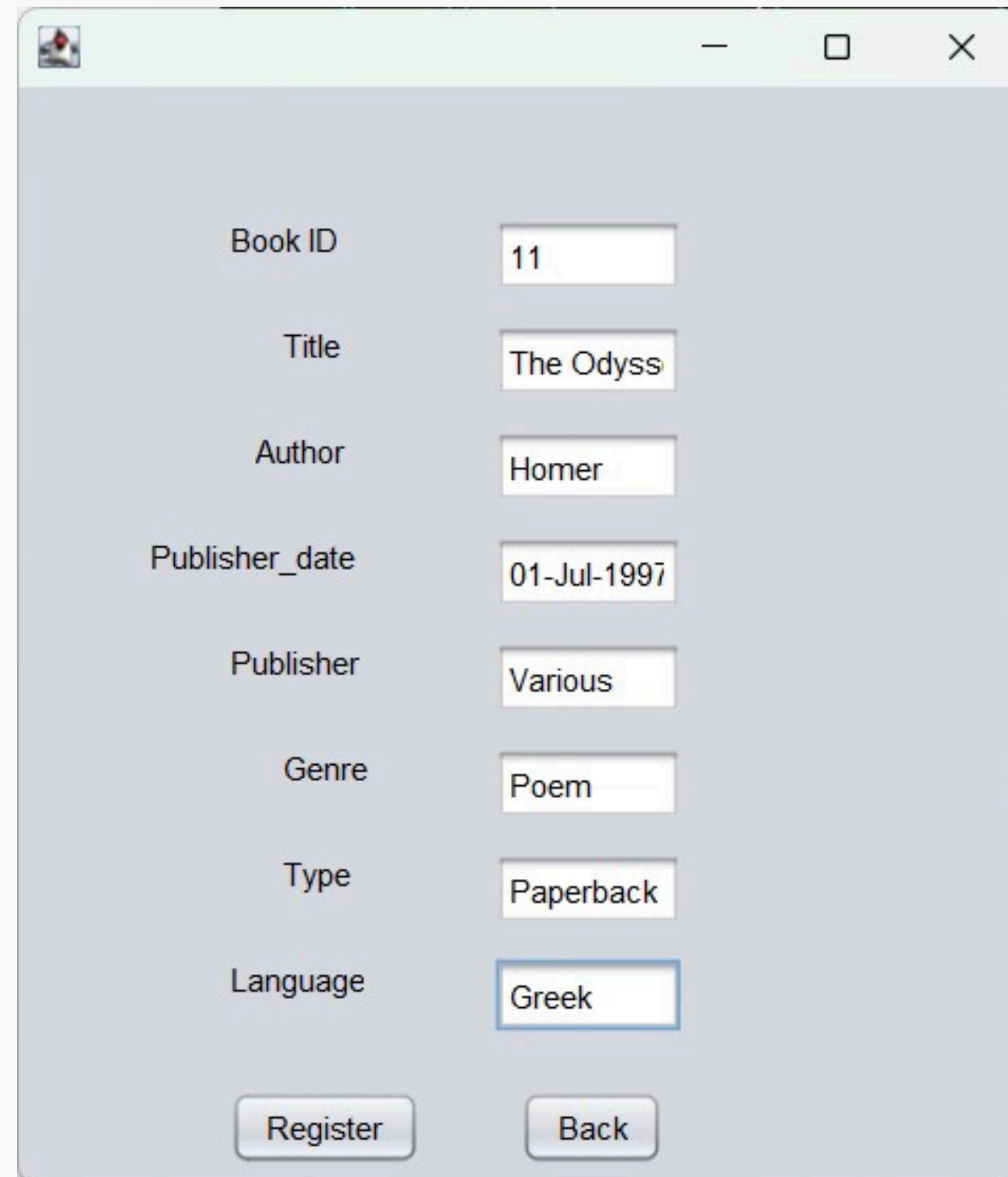


Search for members

N

Memberid	Name	Address	Phone No	Email	Member Ty...	Join Date	Exp Date	Fines
3	Niranjan	4401, emba...	9123567432	ninja@gmail...	Student	2024-06-16 ...	2025-06-16 ...	0
20	Noah Taylor	951 Mango ...	999-999-99...	noah@exa...	Student	2024-06-16 ...	2025-06-16 ...	0

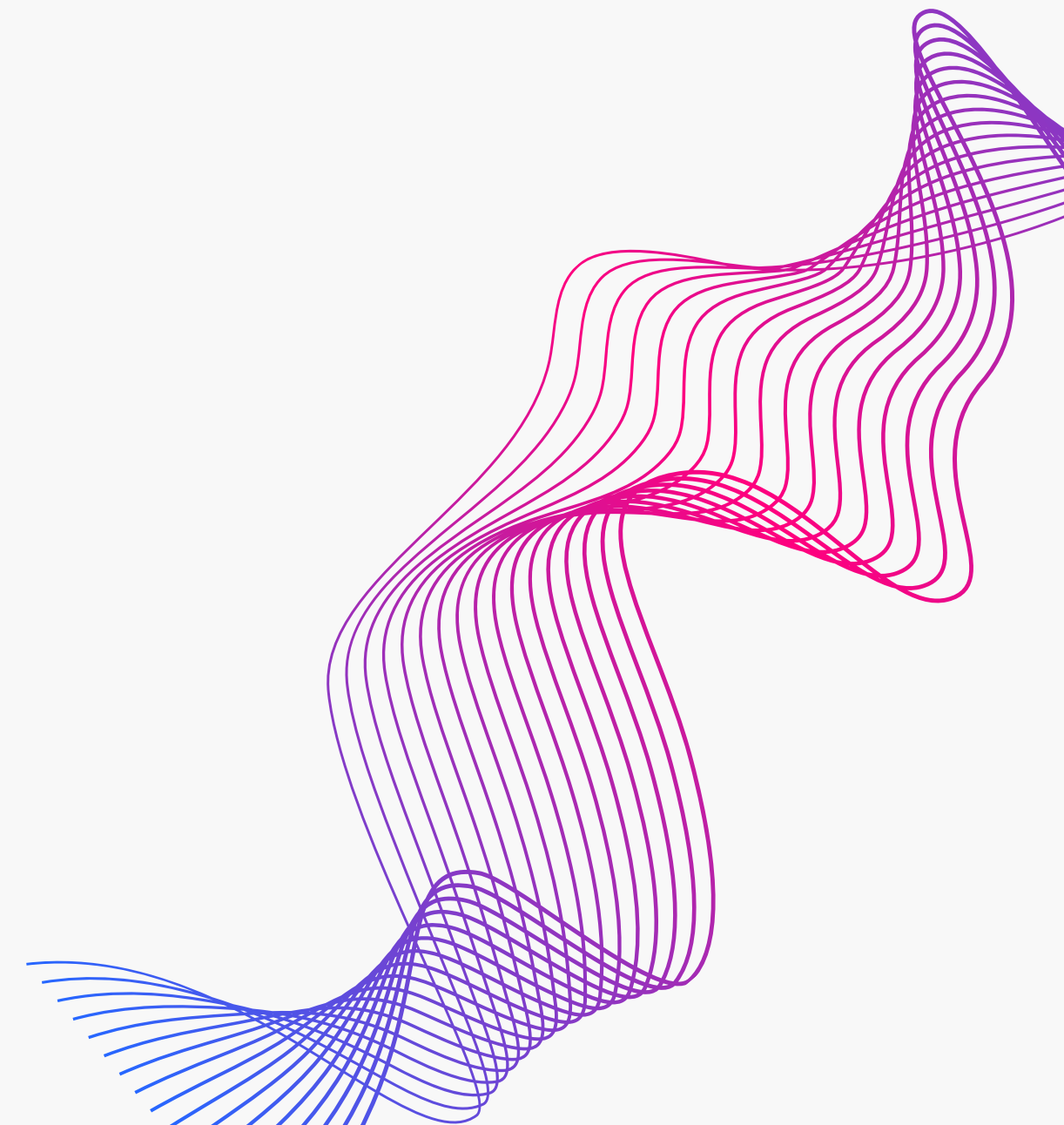
# Implementation - Add new book



A screenshot of a web application window titled "Add new book". The window has a light gray background and a standard window title bar with a minimize button, a maximize button, and a close button. The form contains the following fields and values:

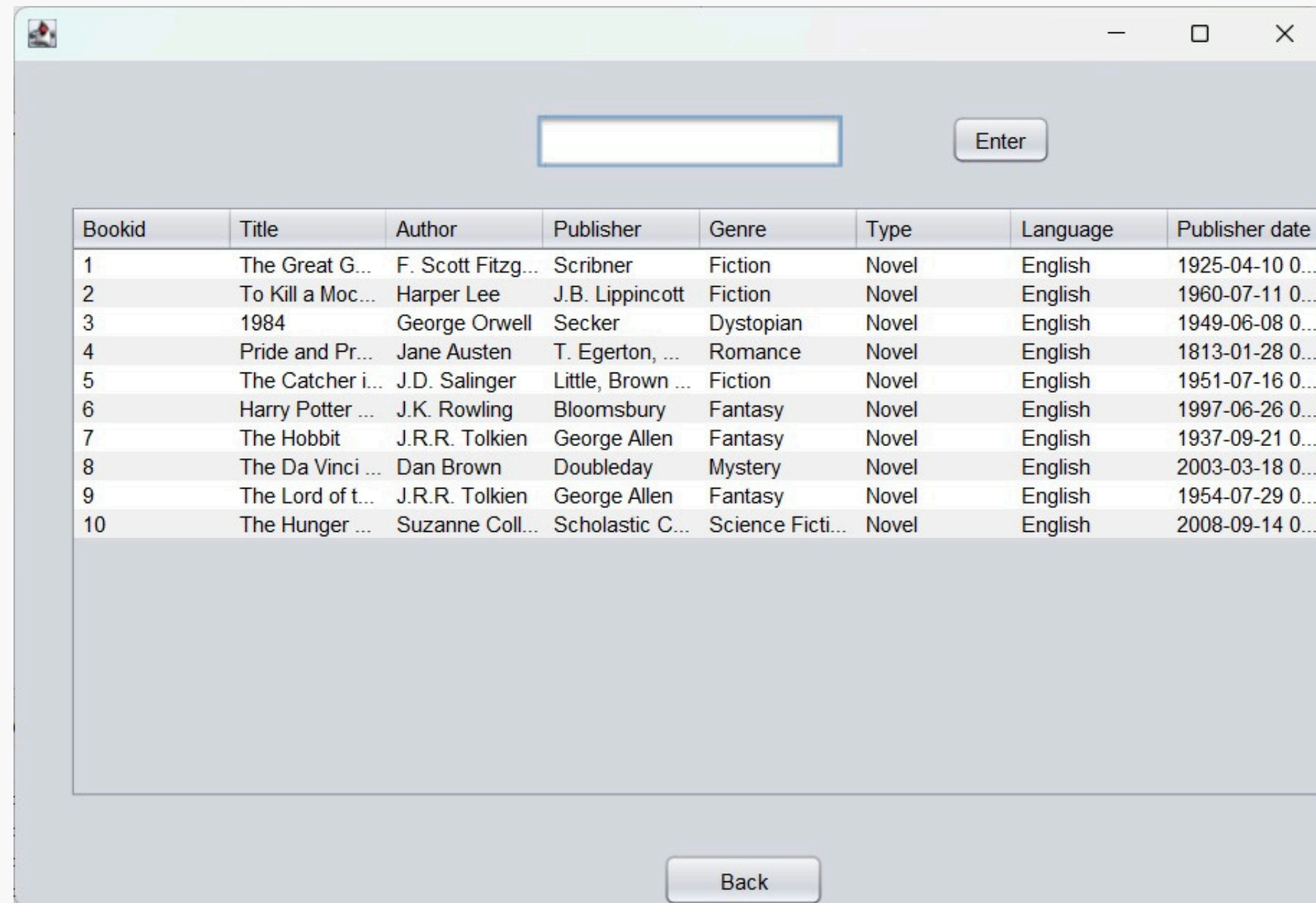
Field	Value
Book ID	11
Title	The Odyss
Author	Homer
Publisher_date	01-Jul-1997
Publisher	Various
Genre	Poem
Type	Paperback
Language	Greek

At the bottom of the form, there are two buttons: "Register" and "Back".





# Implementation - View all books



Bookid	Title	Author	Publisher	Genre	Type	Language	Publisher date
1	The Great G...	F. Scott Fitzg...	Scribner	Fiction	Novel	English	1925-04-10 0...
2	To Kill a Moc...	Harper Lee	J.B. Lippincott	Fiction	Novel	English	1960-07-11 0...
3	1984	George Orwell	Secker	Dystopian	Novel	English	1949-06-08 0...
4	Pride and Pr...	Jane Austen	T. Egerton, ...	Romance	Novel	English	1813-01-28 0...
5	The Catcher i...	J.D. Salinger	Little, Brown ...	Fiction	Novel	English	1951-07-16 0...
6	Harry Potter ...	J.K. Rowling	Bloomsbury	Fantasy	Novel	English	1997-06-26 0...
7	The Hobbit	J.R.R. Tolkien	George Allen	Fantasy	Novel	English	1937-09-21 0...
8	The Da Vinci ...	Dan Brown	Doubleday	Mystery	Novel	English	2003-03-18 0...
9	The Lord of t...	J.R.R. Tolkien	George Allen	Fantasy	Novel	English	1954-07-29 0...
10	The Hunger ...	Suzanne Coll...	Scholastic C...	Science Ficti...	Novel	English	2008-09-14 0...

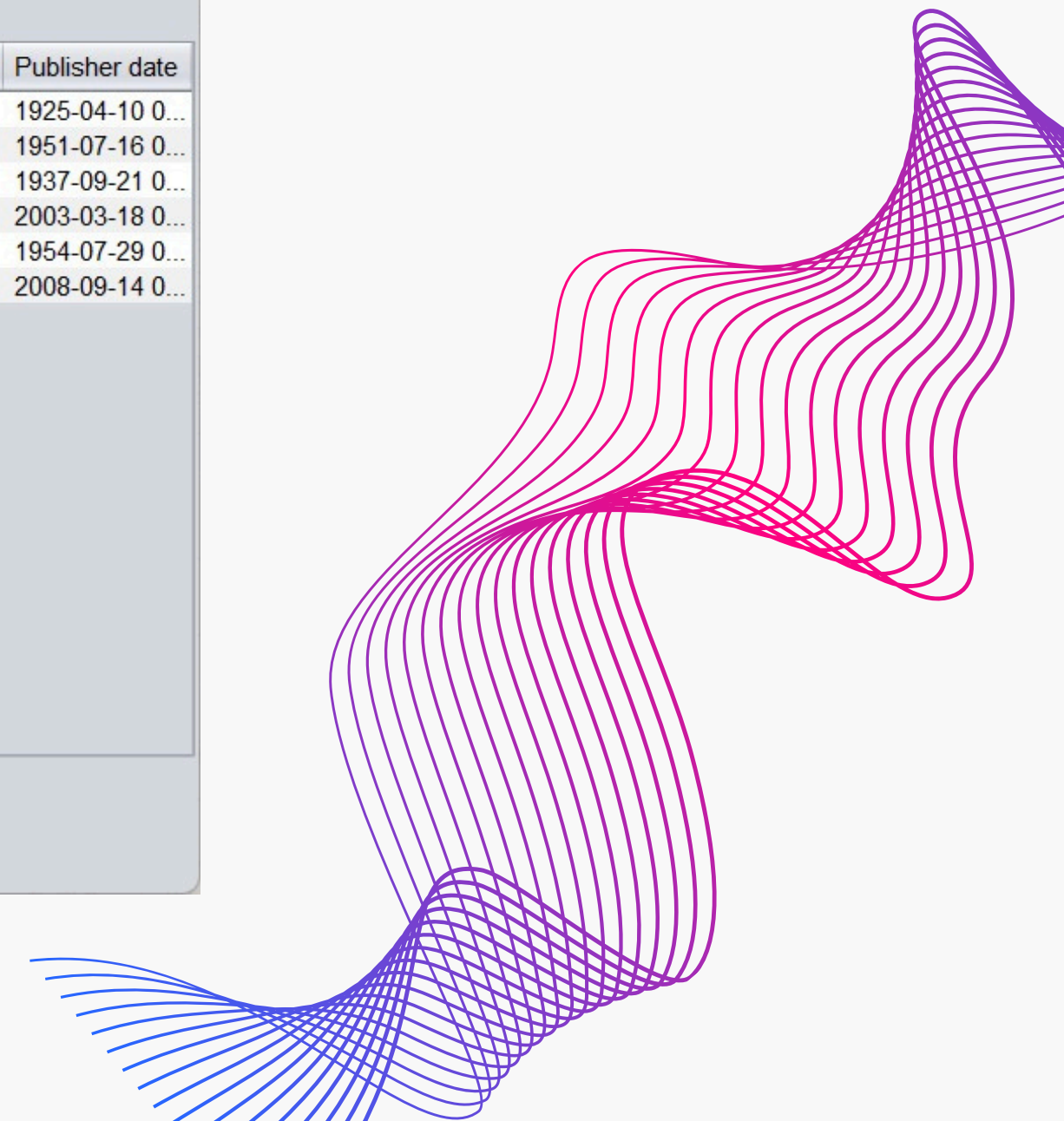
# Implementation - Search for books

The

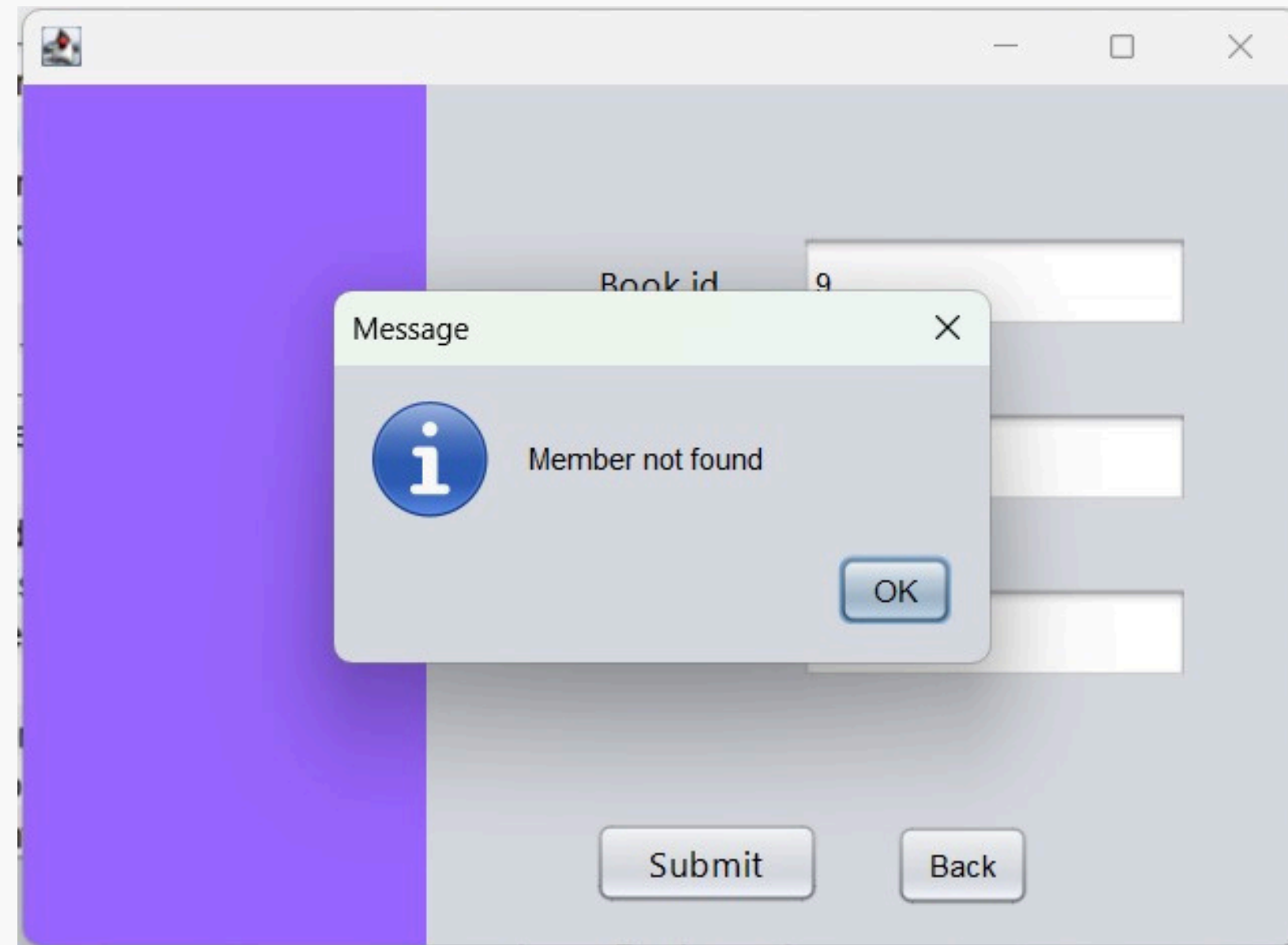
Enter

Bookid	Title	Author	Publisher	Genre	Type	Language	Publisher date
1	The Great G...	F. Scott Fitzg...	Scribner	Fiction	Novel	English	1925-04-10 0...
5	The Catcher i...	J.D. Salinger	Little, Brown ...	Fiction	Novel	English	1951-07-16 0...
7	The Hobbit	J.R.R. Tolkien	George Allen	Fantasy	Novel	English	1937-09-21 0...
8	The Da Vinci ...	Dan Brown	Doubleday	Mystery	Novel	English	2003-03-18 0...
9	The Lord of t...	J.R.R. Tolkien	George Allen	Fantasy	Novel	English	1954-07-29 0...
10	The Hunger ...	Suzanne Coll...	Scholastic C...	Science Ficti...	Novel	English	2008-09-14 0...

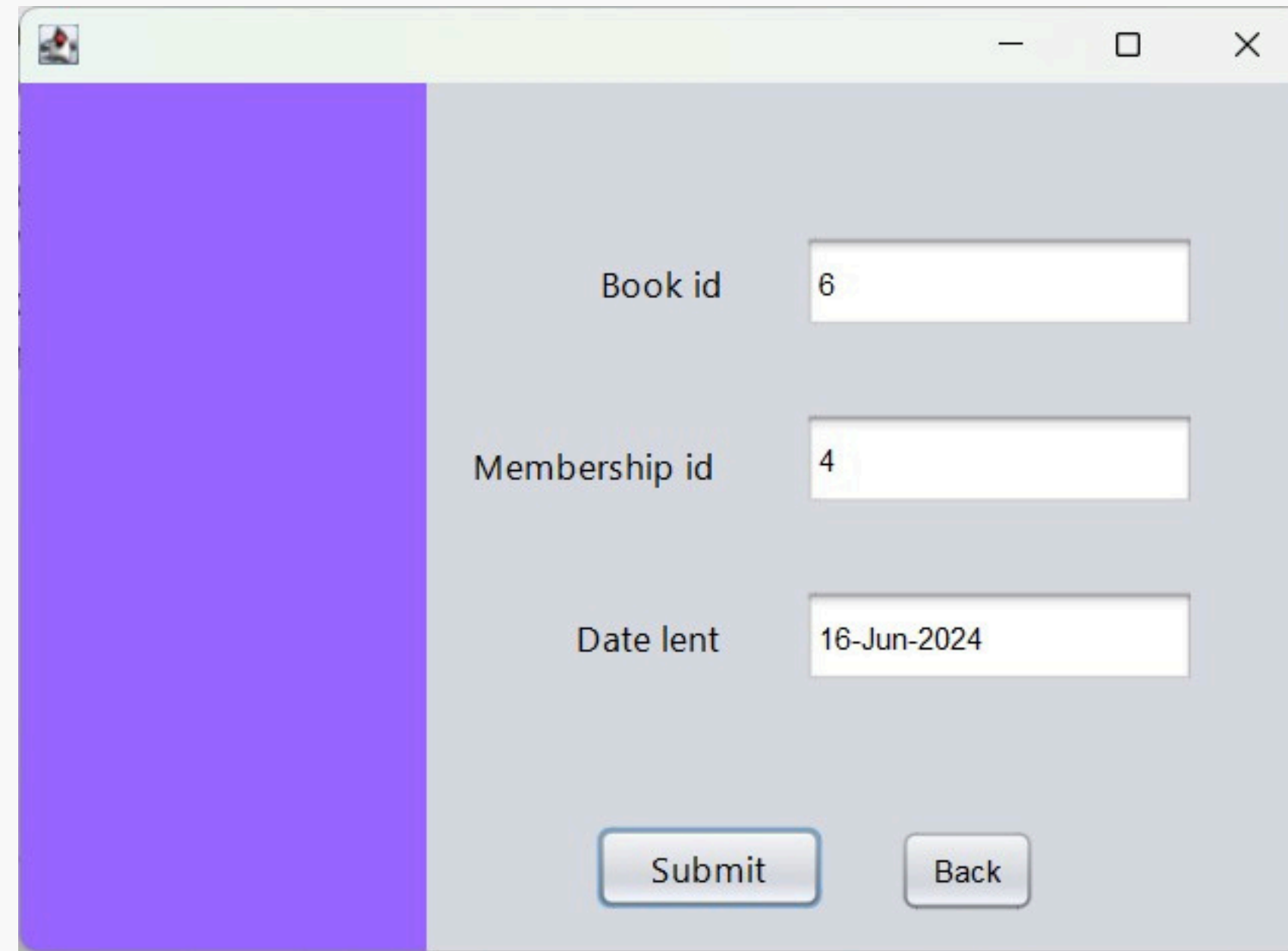
Back



# Implementation - Check if member of book is found before entering them



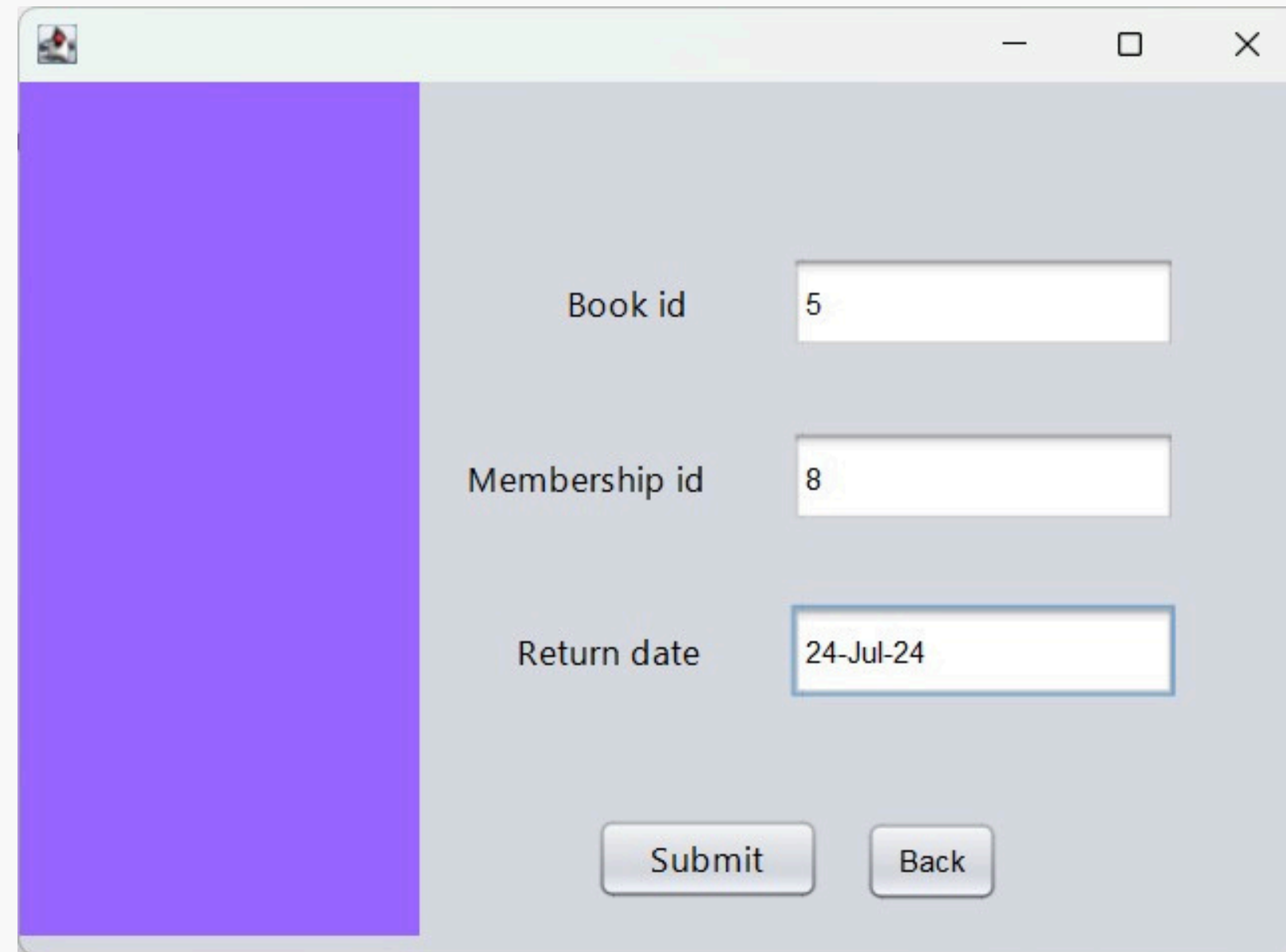
# Implementation - Lend a Book



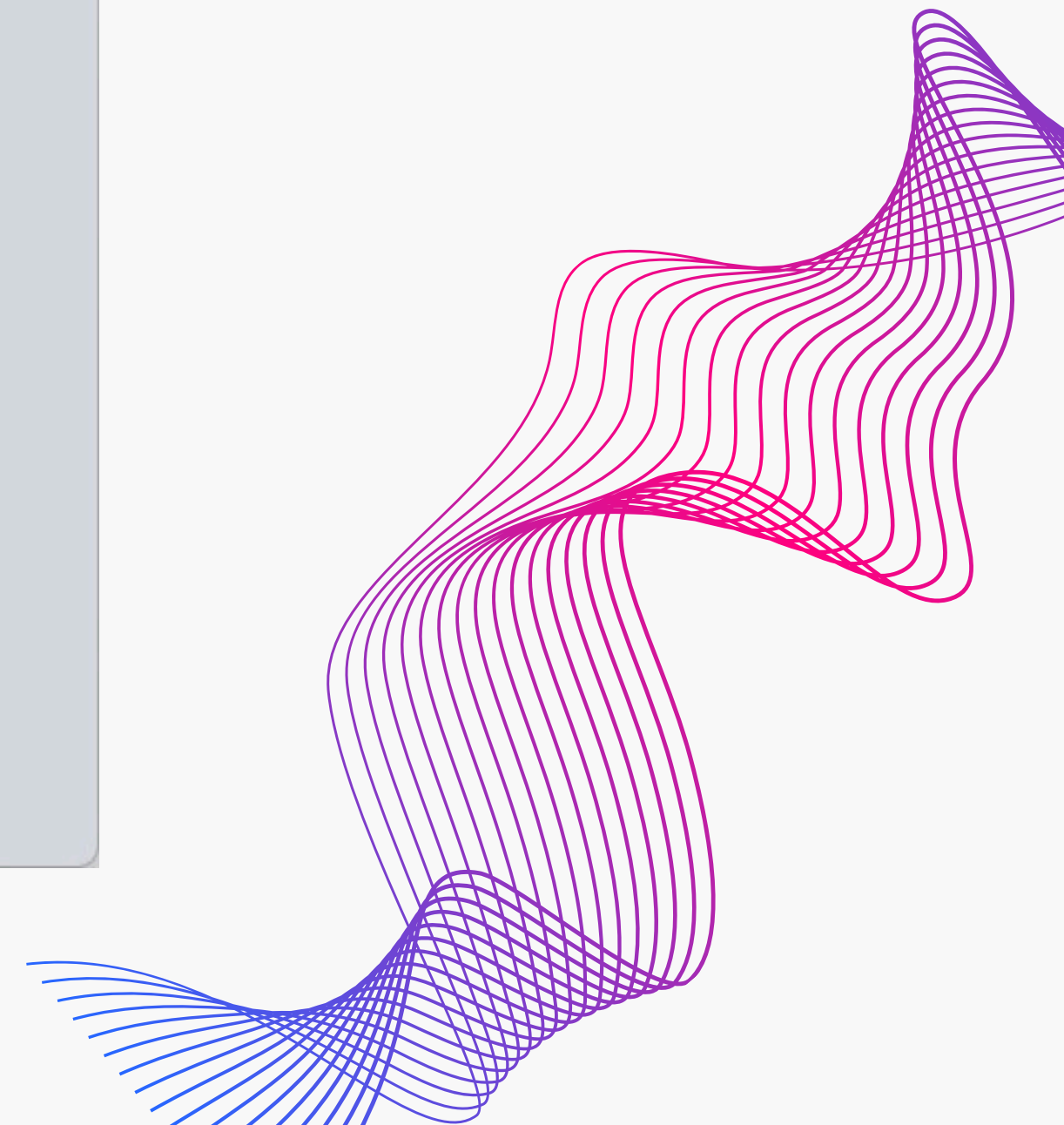
Book id	<input type="text" value="6"/>
Membership id	<input type="text" value="4"/>
Date lent	<input type="text" value="16-Jun-2024"/>



# Implementation - Return a book



Book id	<input type="text" value="5"/>
Membership id	<input type="text" value="8"/>
Return date	<input type="text" value="24-Jul-24"/>



# Implementation - View total number of books lent on the home page

