Finanza
THE LEDGER MASTER

FINAL REPORT

Team Members :

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1. Introduction

In today's world, keeping track of your money is more important than ever — whether you're an individual trying to stick to a budget or a small business managing daily expenses. But let's be honest: many people still use notebooks or basic spreadsheets to handle their finances. It works — until it doesn't. Mistakes happen, things get messy, and staying organized becomes a chore.

That's where Finanza comes in. We created this Ledger Management System using Java to make managing finances simple and stress-free. With an easy-to-use desktop interface and a secure database behind the scenes, Finanza lets users track income, expenses, and account balances without the usual headaches. It's all about making money management smarter, smoother, and way more reliable.

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2. Problem Statement

1. **Manual Record Keeping**
   A lot of people — especially individuals and small business owners — still rely on notebooks or basic Excel sheets to manage their finances. While that might work for simple tracking, it's far from efficient. There's no automation, mistakes in calculations are easy to make, and it's hard to keep everything updated or organized. Plus, there's no way to quickly filter through your data or instantly check your current balance.
2. **No Visual Insights or Structure**

   Traditional tools don't really give you the full picture. There's no clear breakdown of where your money's going, no categorized transactions, and no way to manage multiple users cleanly. This makes it tough to spot spending habits, summarize your finances, or keep things tidy — especially when things start to scale up.

3. Methodology

We have developed Finanza in **Java**, using **object-oriented programming**. Here's how we'll build it:

a. Basic version using **IntelliJ IDEA**
b. Create a proper **Graphical User Interface (GUI)** using Java Swing
c. Used **Flatlaf library** for improving UI.
d. **JChart** to display the cash flow on pie chart dynamically.
e. **Itext7** for bank statement generation in pdf.
f. **Timer** for splash screen time delay.
g. Connect it to a **SQL LITE database** to store booking and courier data

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4. Major Outcomes

- **A fully functional desktop application developed using Java**
- **Smooth and efficient handling of transactions (income & expenses)**
- **Real-time balance updates with every transaction**
- **Intuitive and user-friendly interface built using Java Swing**
- **Secure user login system.**
- **Ability to modify or delete individual transactions**
- **Structured display of income, expenses, and overall financial summary**
- **Modular and scalable architecture for easy maintenance and future upgrades**
- **Practical use of Java, GUI, SQLITE, and Object-Oriented Programming concepts**
- **Laid the foundation for features like PDF export and data analytics in future versions**

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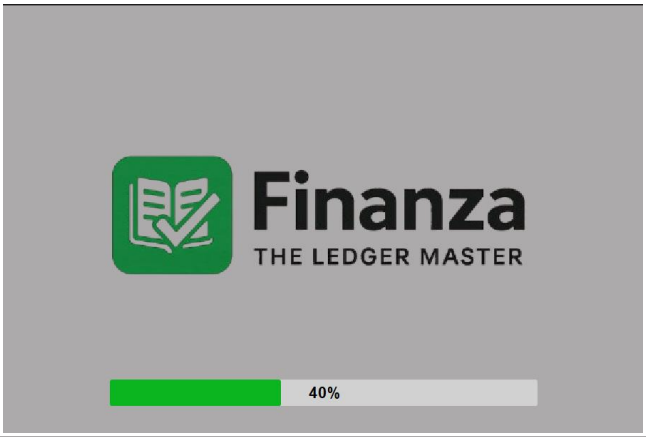
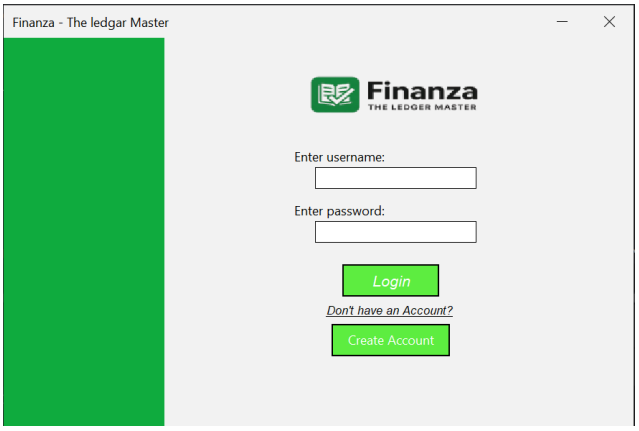
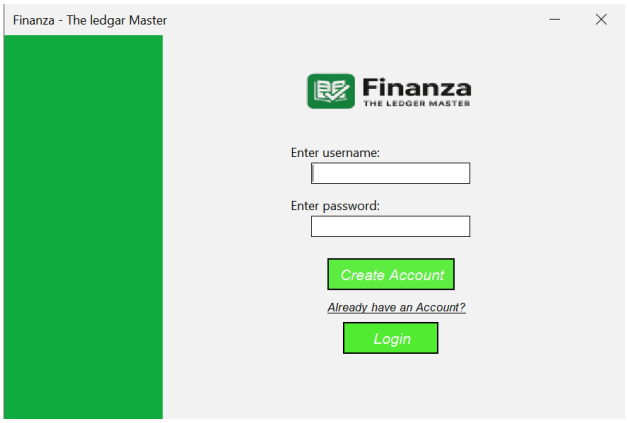
5. Implementation

- Splash Screen

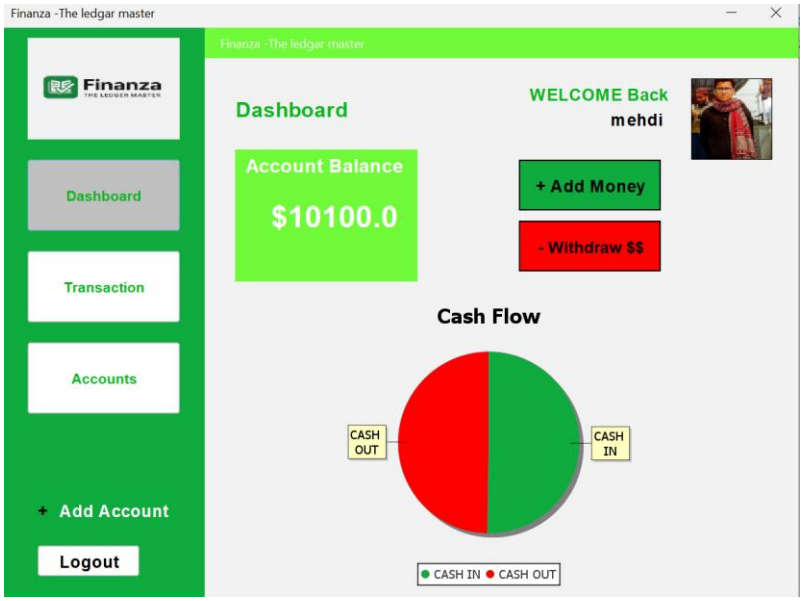


- Login Screen



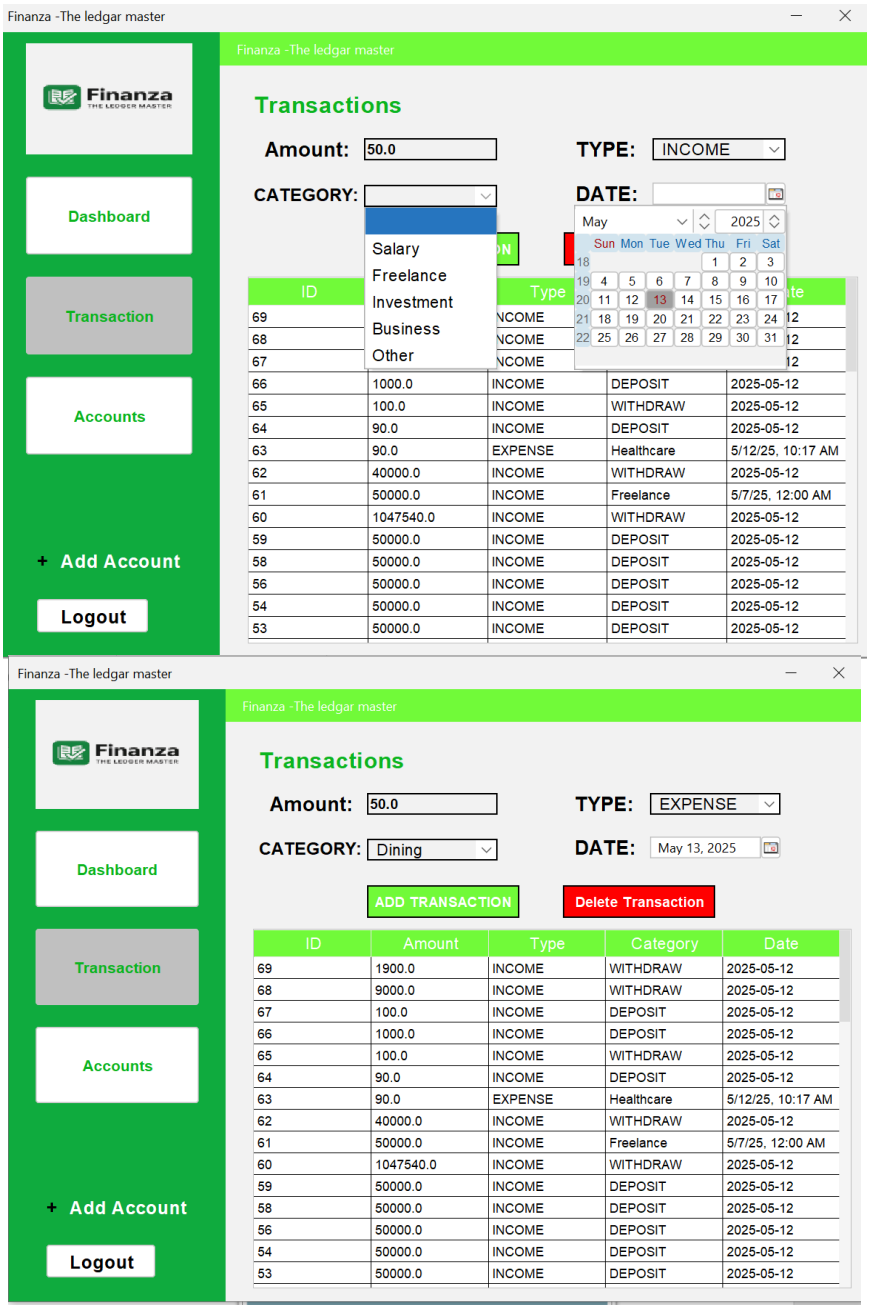


- Dashboard



ALL Buttons are functional with 2 step verification

- Transaction section


Finanza -The ledgar master
Finanza
Dashboard
Transaction
Accounts
+ Add Account
Logout
Transactions
Amount: 50.0
TYPE: INCOME
CATEGORY:
DATE:
Salary
Freelance
Investment
Business
Other
May 2025
Sun Mon Tue Wed Thu Fri Sat
ID Type
69
68
67
66 1000.0 INCOME DEPOSIT 2025-05-12
65 100.0 INCOME WITHDRAW 2025-05-12
64 90.0 INCOME DEPOSIT 2025-05-12
63 90.0 EXPENSE Healthcare 5/12/25, 10:17 AM
62 40000.0 INCOME WITHDRAW 2025-05-12
61 50000.0 INCOME Freelance 5/7/25, 12:00 AM
60 1047540.0 INCOME WITHDRAW 2025-05-12
59 50000.0 INCOME DEPOSIT 2025-05-12
58 50000.0 INCOME DEPOSIT 2025-05-12
56 50000.0 INCOME DEPOSIT 2025-05-12
54 50000.0 INCOME DEPOSIT 2025-05-12
53 50000.0 INCOME DEPOSIT 2025-05-12
Finanza -The ledgar master
Finanza
Dashboard
Transaction
Accounts
+ Add Account
Logout
Transactions
Amount: 50.0
TYPE: EXPENSE
CATEGORY: Dining
DATE: May 13, 2025
ADD TRANSACTION
Delete Transaction
ID Amount Type Category Date
69 1900.0 INCOME WITHDRAW 2025-05-12
68 9000.0 INCOME WITHDRAW 2025-05-12
67 100.0 INCOME DEPOSIT 2025-05-12
66 1000.0 INCOME DEPOSIT 2025-05-12
65 100.0 INCOME WITHDRAW 2025-05-12
64 90.0 INCOME DEPOSIT 2025-05-12
63 90.0 EXPENSE Healthcare 5/12/25, 10:17 AM
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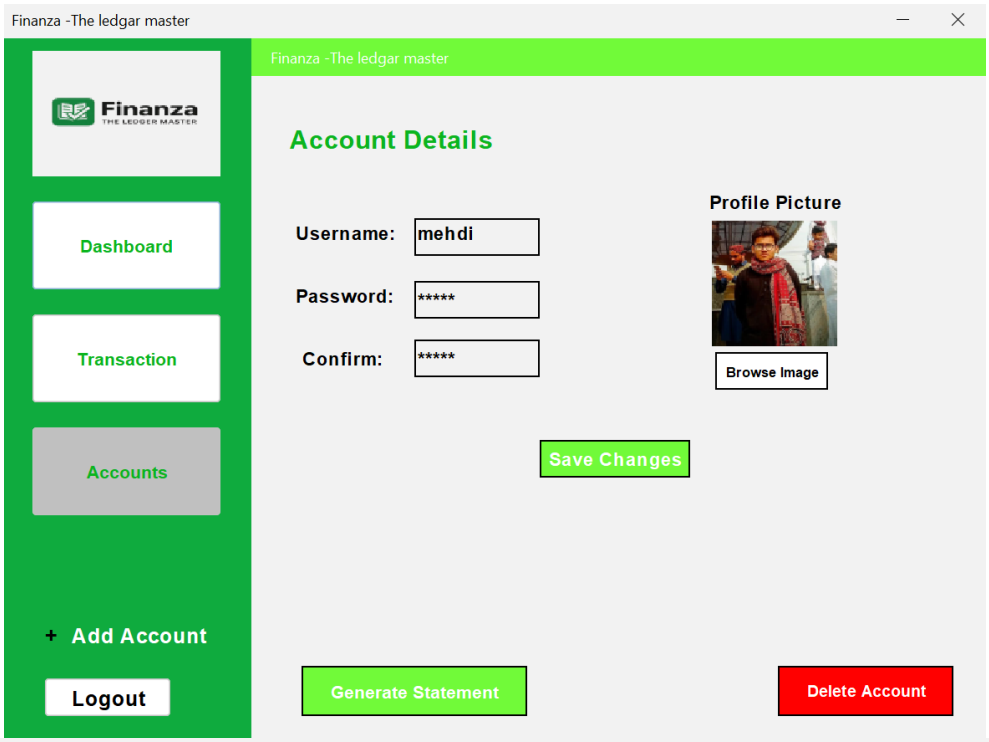
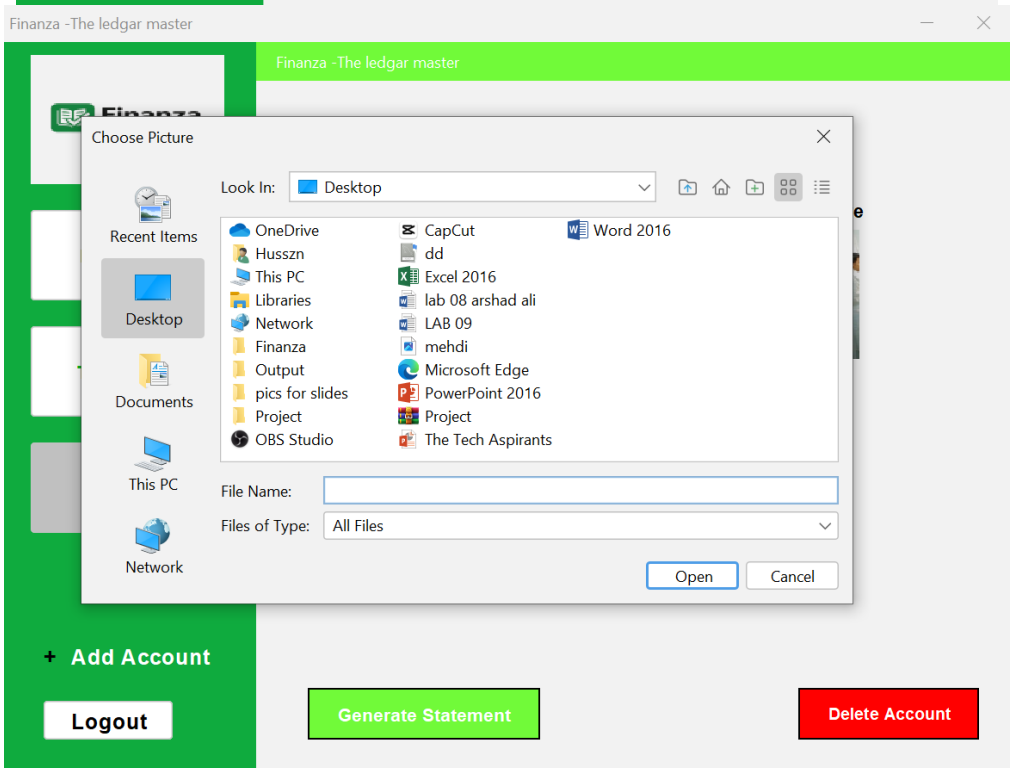
56 50000.0 INCOME DEPOSIT 2025-05-12
54 50000.0 INCOME DEPOSIT 2025-05-12
53 50000.0 INCOME DEPOSIT 2025-05-12

- Accounts


Finanza -The ledgar master
Finanza
THE LEDGER MASTER
Dashboard
Transaction
Accounts
+ Add Account
Logout
Finanza -The ledgar master
Account Details
Username:
mehdi
Password:
*****
Confirm:
*****
Profile Picture
Browse Image
Save Changes
Generate Statement
Delete Account


Finanza -The ledgar master
Finanza -The ledgar master
Choose Picture
Look In:
Desktop
Recent Items
Desktop
Documents
This PC
Network
OneDrive
Husszn
This PC
Libraries
Network
Finanza
Output
pics for slides
Project
OBS Studio
CapCut
dd
Excel 2016
lab 08 arshad ali
LAB 09
mehdi
Microsoft Edge
PowerPoint 2016
Project
The Tech Aspirants
Word 2016
File Name:
Files of Type:
All Files
Open
Cancel
+ Add Account
Logout
Generate Statement
Delete Account

- Finanza Statement Pdf

Finanza
THE LEDGER MASTER

Username: mehdi

Date: 2025-05-13 18-26-28s

Current Balance: 10100.0

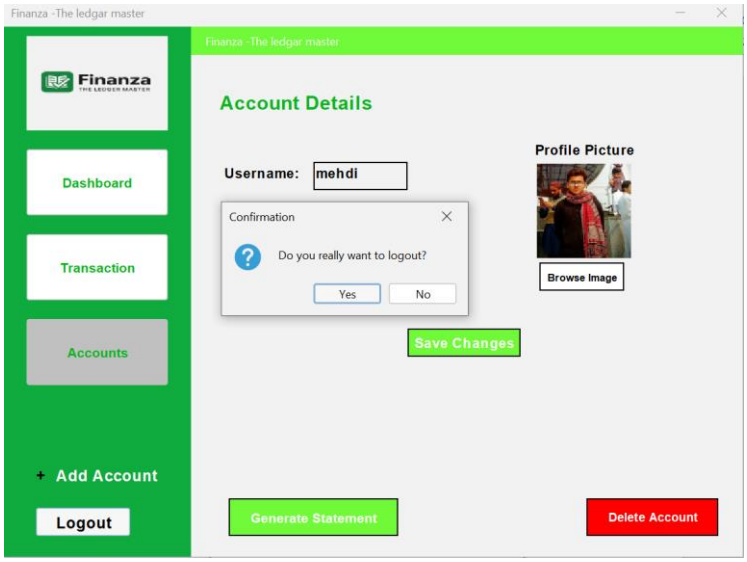
Amount in: 1138071.0

Amount out: 1127971.0

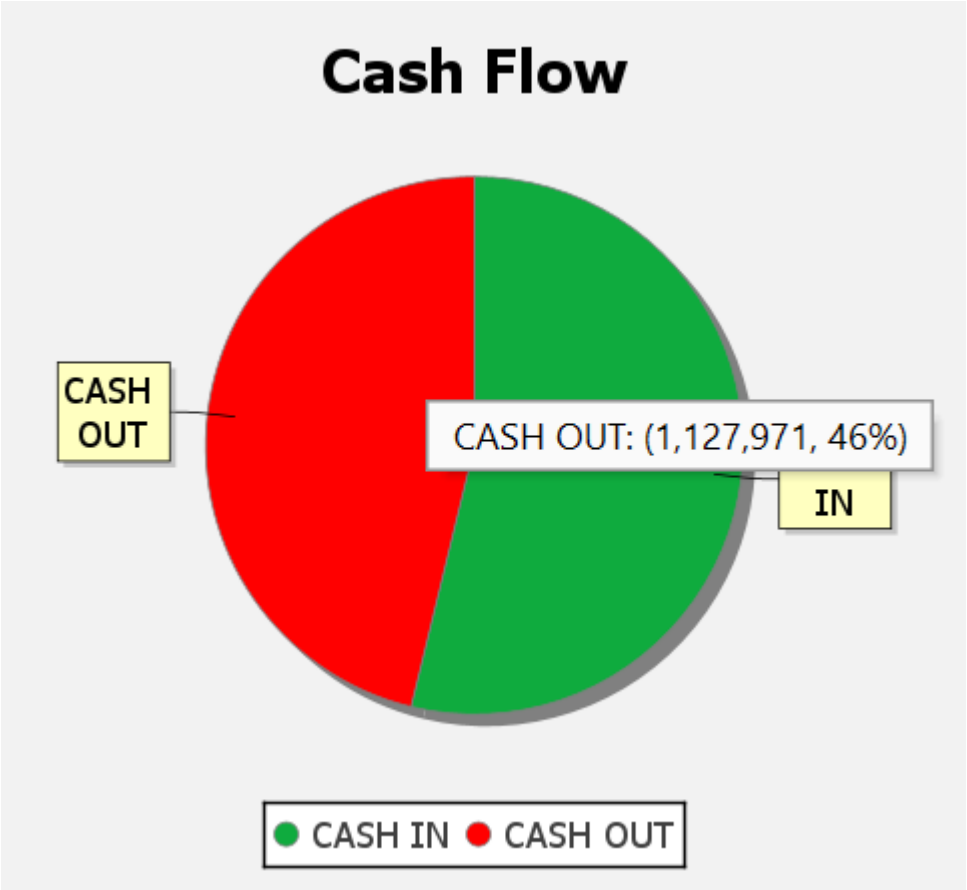
Note: This finanza Statment is generated on the request of Mr/Miss mehdi

ID	Amount	Type	Category	Date
69	1900.0	INCOME	WITHDRAW	2025-05-12
68	9000.0	INCOME	WITHDRAW	2025-05-12
67	100.0	INCOME	DEPOSIT	2025-05-12
66	1000.0	INCOME	DEPOSIT	2025-05-12
65	100.0	INCOME	WITHDRAW	2025-05-12
64	90.0	INCOME	DEPOSIT	2025-05-12
63	90.0	EXPENSE	Healthcare	5/12/25, 10:17AM
62	40000.0	INCOME	WITHDRAW	2025-05-12
61	50000.0	INCOME	Freelance	5/7/25, 12:00AM
60	1047540.0	INCOME	WITHDRAW	2025-05-12
59	50000.0	INCOME	DEPOSIT	2025-05-12
58	50000.0	INCOME	DEPOSIT	2025-05-12
56	50000.0	INCOME	DEPOSIT	2025-05-12
54	50000.0	INCOME	DEPOSIT	2025-05-12
53	50000.0	INCOME	DEPOSIT	2025-05-12
52	50000.0	INCOME	DEPOSIT	2025-05-12
51	50000.0	INCOME	DEPOSIT	2025-05-12
50	50000.0	INCOME	DEPOSIT	2025-05-12
49	50000.0	INCOME	DEPOSIT	2025-05-12

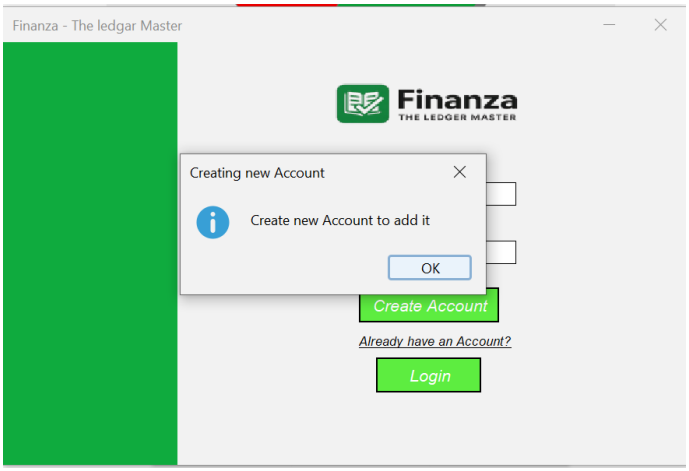
- Logout



- Dynamic Pie chart of Cash Flow



- Add Account Option



6. Conclusion

Working on **Finanza** has been an exciting and meaningful experience for us. What started as just an idea to solve a common problem turned into a fully working application that helps people manage their finances more easily. With **Finanza**, users can track their income, expenses, and overall financial activity — all through a simple, clean desktop app.

Throughout this project, we didn't just write code — we learned a lot. We improved our skills in Java, especially in object-oriented programming, building user interfaces with Swing, and connecting everything to a MySQL database. More than that, we learned how to build something as a team, plan things out, fix bugs when things went wrong, and make the whole system run smoothly.