Java Angular: Banking App

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This project involves creating a banking application. It will be protected by an authentication page to ensure that only the respective user can access their banking data.

1. Data Model :

Below is the data model diagram for my banking application.



2. Wireframes :

Before starting the frontend part of the project, we can create what are known as wireframes. These are simplistic models that showcase the business expectations.

Below you'll find a description of the application's functional requirements, as well as the associated wireframe.

There are two types of roles in the application, giving access to different pages:

- The standard user
- The administrator

First, let's look at the pages the user will be accessing.

Users will need to create an account if they are not already registered.

	A Web Page
[Register
	Firstname
	Email
	Password Confirm password
	Register Already have an accoun Login
	"

Users must be able to log into their account via a login page.

A Web Page
Login
Email Password Login Don't have an account? Register
"

Once logged in, users will be able to access their dashboard, where they will see their account balance, their highest transaction, and their highest deposit. They will also see a graph summarizing their activity over a defined period, with the start and end dates adjustable by the user.



Users should be able to view their transactions on a "transactions" page, where they can also initiate a new transaction if they wish.

Dashboard My t	ransactions My contact lis	+	New transaction My profile
My transactior	าร		+ New transaction
Date	Amount	IBAN	Туре
01/01/2023	1 560€	DE12 1234 3456 3455 00	Transfer
01/01/2023	1 560€	DE12 1234 3456 3455 00	Deposit
01/01/2023	1 560€	DE12 1234 3456 3455 00	Transfer
01/01/2023	1 560€	DE12 1234 3456 3455 00	Transfer
01/01/2023	1560€	DE12 1234 3456 3455 00	Deposit
01/01/2023	1 560€	DE12 1234 3456 3455 00	Transfer
01/01/2023	1 560€	DE12 1234 3456 3455 00	Deposit
01/01/2023	1560€	DE12 1234 3456 3455 00	Transfer
01/01/2023	1 560€	DE12 1234 3456 3455 00	Transfer

	A Web Page		
(https://user/my-contacts			
Dashboard My transactions My contact list		+ New transaction	My profile 😳
			\bigcirc
New transaction			
Your account balance: 21 560€			
Contact	-		
Transaction Type	-		
Amount			
IBAN			
Cancel	💾 Save		
			"

Users should be able to view their contacts on a "contacts" page and have the option to add a new contact if they desire.

Dashboard M	y transactions My contact list	+ N	ew transaction My profile
My contacts	list		+ New contact
Firstname	Lastname	IBAN	
John	Doe	DE12 1234 3456 3455 00	
John	Doe	DE12 1234 3456 3455 00	
John	Doe	DE12 1234 3456 3455 00	
John	Doe	DE12 1234 3456 3455 00	
John	Doe	DE12 1234 3456 3455 00	
John	Doe	DE12 1234 3456 3455 00	
John	Doe	DE12 1234 3456 3455 00	
John	Doe	DE12 1234 3456 3455 00	
John	Doe	DE12 1234 3456 3455 00	

			A Web Page		
ירי ר א א	https://user/my-contacts				
Dashboard	My transactions My contac	: ljst	_	+ New transaction	My profile 🔃
New Conto	act				
Firstname					
Lastname					
IBAN					
		Cancel Sav	ė		

Finally, users should be able to update their personal information on a "profile" page.

← ★ ☆ [https://user/my-contacts	A Web Page
Dashboard My transactions My contact list	+ New transaction My profile
My profile Personal info Firstname Lastname Email	Address Street Lastname Email
	Cancel 🖺 Save
	"

Now we can process the pages accessible by the administrator.

Administrators should have access to the general dashboard of the application.

A Web Page	
Dashboard Users	My profile 过
	"

Administrators should be able to go to a "user" page where they can disable/enable a user's account. They also can filter inactive users to facilitate the activation of their accounts.

Sy contact	s list		Show in	nactive users only
Firstname	Lastname	IBAN	State	Actions
John	Doe	DE12 1234 3456 3455 00	active	M
John	Doe		inactive	
John	Doe	DE12 1234 3456 3455 00	active	M
John	Doe	DE12 1234 3456 3455 00	active	M
John	Doe		inactive	
John	Doe	DE12 1234 3456 3455 00	active	Ø
John	Doe	DE12 1234 3456 3455 00	active	Ø
John	Doe	DE12 1234 3456 3455 00	active	V
Tohn	Doe	DE12 1234 3456 3455 00	active	R

3. Final application :

3.1 Registrer

Create an accou	unt	
Firstname		
Firstname		
Lastname		
Lastname		
Email address		
name@example.com		
Password		
Password		
+) CREATE AN ACCOUNT	Already have an account?	<u>Login</u>

3.2 Login

Logi	n	
Email address		
name@example.com		
Password		
Password		
+) SIGN IN	Don't have an account?	<u>Register</u>

3.3 User Pages

3.3.1 User Dashboard



3.3.2 User transactions

My Bank Dashboard My transactions My contact list					
My transactio	My transactions				
			+ New transaction		
Date	Amount	IBAN	Туре		
2024-01-16	500		DEPOSIT		
2024-01-14	50	FR19 4895 6275 896O T9QW JBK9 R84	DEPOSIT		
2024-01-11	-600	FR19 4895 6275 896O T9QW JBK9 R84	TRANSFERT		
2024-01-11	-400	FR19 4895 6275 896O T9QW JBK9 R84	TRANSFERT		
2024-01-11	100000000	FR19 4895 6275 896O T9QW JBK9 R84	DEPOSIT		
2024-01-11	-600	FR19 4895 6275 896O T9QW JBK9 R84	TRANSFERT		
2024-01-11	-400	FR19 4895 6275 896O T9QW JBK9 R84	TRANSFERT		
2024-01-11	-80000000	FR19 4895 6275 896O T9QW JBK9 R84	TRANSFERT		
2024-01-10	-50	FR19 4895 6275 896O T9QW JBK9 R84	TRANSFERT		
2024-01-10	-50	FR19 4895 6275 896O T9QW JBK9 R84	TRANSFERT		
2024-01-10	50	FR19 4895 6275 896O T9QW JBK9 R84	DEPOSIT		

3.3.3 New transaction

3.3.3.1 New Deposit

My Bank Dashboard My transactions My contact list	+ New transaction	LuserFullName
New transaction		
You account balance: 919998500€ Transaction type		
DEPOSIT		~
Amount		
Exp: 500€		
	× <u>Canc</u>	cel Save

3.3.3.2 New Transfert

My Bank Dashboard My transactions My contact list	+ New transaction	<u>userFullName</u>
New transaction		
You account balance: 919998500€ Transaction type		
TRANSFERT		~
Chose a contact		
thomas berteau		~
Amount		
Exp: 500€		\$
IBAN		
FR29 3583 9501 07ZV 13ZN JGLW 157		
	× <u>Canc</u>	el 🖬 Save

3.3.4 User contacts

My Bank Dast	board My transaction	ns My contact list		+ New transaction
My contact list				
Firstname	Lastnamo	Email	IRAN	+ New contac
thomas	berteau	thomas.berteau@mail.com	FR29 3583 9501 07ZV 13ZN JGLW 157	Ø ∎
fgngfh111	fnfnfgn	nfgngf@fvfdv.cc	eferferf	2 🗎

3.3.5 New contact

My Bank Dashboard My transactions My contact list	+ New transaction	LuserFullName
New contact		
Firstname		
Firstname		
Lastname		
Lastname		
Email		
Email		
IBAN		
AB12 1234 1234 1234 00		
	× <u>Canc</u>	el 🕞 Save

3.3.6 Update contact

My Bank Dashboard My transactions My contact list	+ New transaction	LuserFullName
New contact		
Firstname		
thomas		
Lastname		
berteau		
Email		
thomas.berteau@mail.com		
IBAN		
FR29 3583 9501 07ZV 13ZN JGLW 157		
	× <u>Cano</u>	cel 🕞 Save

3.3.7 Delete contact

Î

3.3.8 User profile

My Bank Dashboard My transactions My contact list	+ New transaction			
My profile				
successMsg				
Personal info	Address			
Firstname	Street			
Firstname	Street			
Lastname	House number			
Lastname	House number			
Email	City			
mail@email.com	City			
	× <u>Cancel</u> Save			

3.4 Admin Pages

My Bank Dashboard Customers				
Bank custo	omers		ے sh	ow inactive users only
Firstname	Lastnamo	IRAN	State	Actions
thomas2	berteau2			
thomas	berteau	FR33 5659 0176 14XR JMRO T8SW R09	Active	
test	test	FR03 4950 4535 2211 JJB2 SDMJ 445	Active	
thomas3	berteau3	FR70 7340 8737 77IJ K1NX LD1K S49	Active	

My Bank Dashboard Customers	LuserFullName
My profile	
successMsg	
Personal info	Addross
	Street
Firstname	Street
Lastname	House number
Lastname	House number
Email	City
mail@email.com	City
	X <u>Cancel</u> Save