Environment:

1. DB: prefer PostgreSQL
2. Entity Framework
3. ASP.NET Core
4. React (TS)

Task:

Design a card system, where users can manage their cards and their payments. Create a web interface for managing cards and transactions. Create an admin page for uploading cards and users.

User

* Last name
* First name
* Username (email)
* Password (hash)
* Last login time
* Created date
* Last password change date

Card

* Card number (16 character)
* Valid
* State (Active, Inactive Disabled, Expired)
* Type (Forint, Currency, Credit) IF currency then (EUR, USD)

Account (multiple account for user)

* Balance
* Type (Deposit, Credit, Currency)

Transaction

* Date
* Amount
* Type (Normal, Cancelled)
* Card number
* Vendor

Vendor

* Name
* Address(es)
* Contacts (phone, email, etc..)

Create an app in ASP:NET Core and React where

* User can log in
* Request new password with email address
* After login, there is a menubar where users can access their:
  + accounts,
  + cards,
  + query their transactions
  + user profile
    - change name, password
  + logout