



German University in Cairo

Software Engineering - **CSEN 603**

Milestone 2

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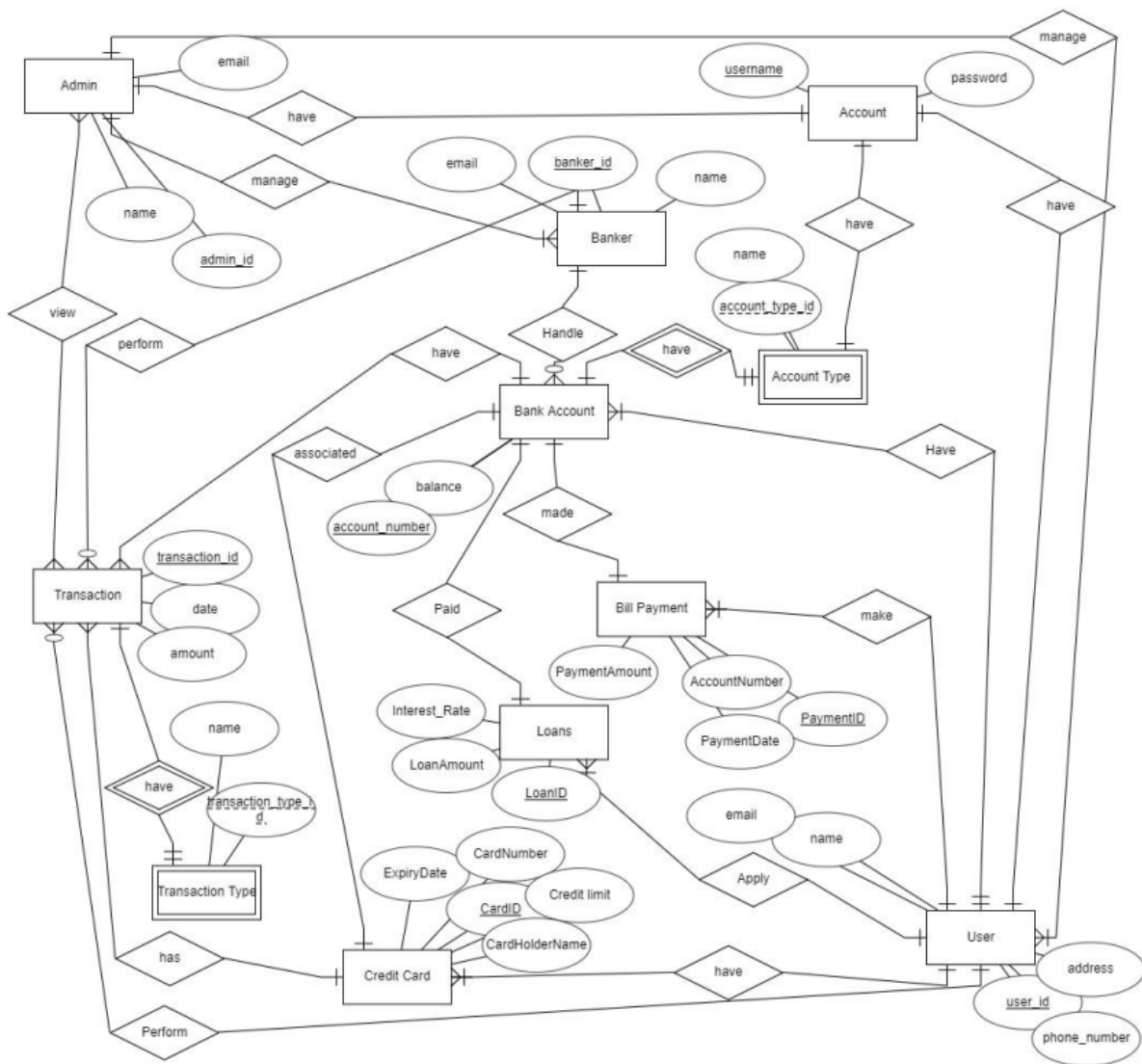
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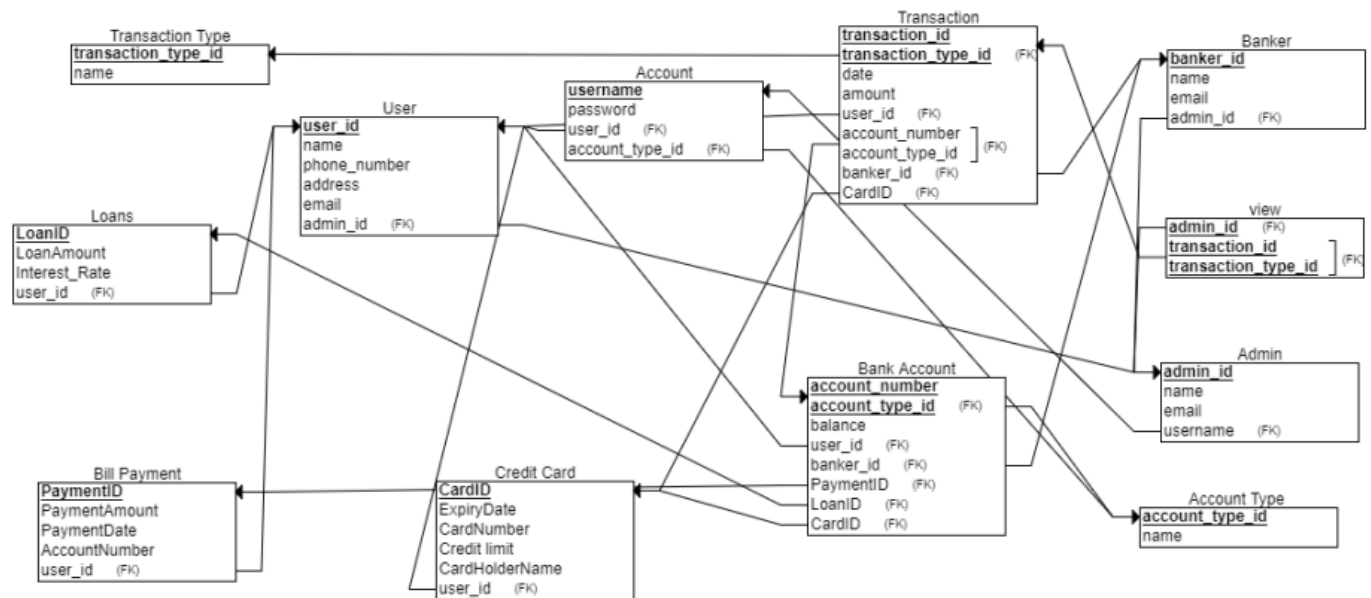
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ERD



Schema



Online Banking System

The diagram illustrates the architecture of an Online Banking System, organized into four subsystems, each containing components and their interdependencies.

- Subsystem: User & info management**
 - Components:** Admin / banker / client info, Authenticate / login / signup, User info Storage, User Session, User authentication / Registration.
 - Internal Dependencies:** Admin / banker / client info depends on Authenticate / login / signup. Authenticate / login / signup depends on User authentication / Registration. User info Storage depends on User authentication / Registration.
 - Exported Interfaces:** User info Storage and User authentication / Registration.
 - Imported Interfaces:** User Session.
- Subsystem: credit cards & loans**
 - Components:** Freeze / Add Credit Card, Ask for Loan.
 - Internal Dependencies:** Freeze / Add Credit Card depends on Ask for Loan.
 - Exported Interfaces:** Freeze / Add Credit Card and Ask for Loan.
 - Imported Interfaces:** Manage Loans and Manage Credit Cards.
- Subsystem: bills & payments/ Donations**
 - Components:** Bill Payment History, Donate to Charity.
 - Internal Dependencies:** Bill Payment History depends on Donate to Charity.
 - Exported Interfaces:** Bill Payment History and Donate to Charity.
 - Imported Interfaces:** Manage Transactions.
- Subsystem: personal financial management**
 - Components:** Account Balances, Transaction History.
 - Internal Dependencies:** Account Balances depends on Transaction History.
 - Exported Interfaces:** Account Balances and Transaction History.
 - Imported Interfaces:** Manage Accounts and Manage Transactions.

Key Dependencies:

- Manage Loans:** A dashed dependency from the **credit cards & loans** subsystem to the **User & info management** subsystem, specifically to the **User info Storage** component.
- Manage Credit Cards:** A dashed dependency from the **credit cards & loans** subsystem to the **User & info management** subsystem, specifically to the **User authentication / Registration** component.
- Manage Accounts:** A dashed dependency from the **personal financial management** subsystem to the **credit cards & loans** subsystem, specifically to the **Freeze / Add Credit Card** component.
- Manage Transactions:** A dashed dependency from the **bills & payments/ Donations** subsystem to the **personal financial management** subsystem, specifically to the **Transaction History** component.

Class Diagram

