This project, titled "enKrypt" introduces a sophisticated and secure approach to managing financial transactions. It offers features such as user registration, login, deposit, withdrawal, and balance checking, all underpinned by robust data encryption mechanisms. The application utilizes the 'cryptography.fernet' library for seamless encryption and decryption of sensitive user information, ensuring that user account balances are safeguarded at all times.

When a user registers or performs a financial transaction, their account balance is encrypted using a unique encryption key derived from a user-defined 4-digit PIN. This ensures that even if the database is compromised, the financial data remains unreadable without the correct encryption key. During transactions, the application decrypts the balance using the provided PIN, processes the transaction, and then re-encrypts the balance with the updated amount.

By integrating encryption directly into the database management, this project demonstrates a comprehensive and secure approach to handling sensitive financial information, offering users a trustworthy and privacy-focused banking experience.

Project Name: enKrypt

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