Project Implementation:

BankEase: User-Friendly and Secure Banking App

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1. **Login and Sign in:**

For the login and sign-in feature, there were several possible solutions such as using email, phone number, or social media accounts. However, I decided to implement a simple username and password-based authentication system. This allows users to create an account using their email and a secure password. A physical limitation for this feature could be the risk of hacking attempts, which could compromise users' personal and financial information.

2. **Transfer and Paybill:**

To implement the transfer and pay bill features, several possible solutions could include bank transfer, e-wallet transfer, or QR code payments. A physical limitation could be compatibility issues with different banks and e-wallets. The actual solution implemented was to use bank transfer as the primary method and to offer an e-wallet transfer as an alternative. The app also provided users with the option to save their payee information for future transactions.

3. **Settings:**

For the settings feature, there were several possible solutions such as implementing a dropdown menu or using checkboxes. However, I decided to implement a tab-based navigation system that allows users to switch between different settings such as account information, notifications, and privacy settings. This provides users with a more intuitive and user-friendly way to customize their settings. A physical limitation for this feature could be the limited screen space available on mobile devices. And also implemented to allow users to customize their notification settings and provide a "save" button to store their settings.

4. **Investment Portfolio:**

The investment portfolio feature included several possible solutions, such as stock trading, mutual funds. A physical limitation could be the requirement for a significant amount of data

storage space to store all the portfolio information. The actual solution implemented was to use stock trading as the primary method and to provide users with real-time stock prices and graphs to monitor their investments.

5. **Trading and Stock:**

To implement the trading and stock feature, several possible solutions could include providing users with stock alerts, real-time stock quotes, or an interactive stock chart. A physical limitation could be compatibility issues with different stock exchanges. The actual solution implemented was to provide users with real-time stock quotes and an interactive stock chart to monitor stock performance. Users can also buy or sell the stock.

6. **Financial planner with Calculator and Budget:**

The financial planner feature included several options such as a financial calculator, a budget planner, and a retirement planner. A possible solution could be to provide users with a comprehensive financial planning guide. A physical limitation could be the complexity of the algorithms required to calculate financial planning outcomes. The actual solution implemented was to provide users with a financial calculator and a budget planner, allowing them to input their income and expenses to determine their financial goals. The app also provided users with the option to save their budget and financial planning data for future reference.