Digital Wallet

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Abstract:
Everyone now utilizes Google Pay and Phonepe to do financial transactions. Many individuals have difficulty sending money due to network issues. To overcome this network issue and prevent transaction failure, we created a digital wallet.One of the primary advantages of using a digital wallet is its ease. Users may pay money to others and conduct transactions with only a few clicks on a computer or smartphone. This eliminated the need to visit a bank in person to make a transfer or carry cash.
Keywords: Digital Currency, Monitoring Admin Panel.

I. INTRODUCTION

We plan to create a digital wallet that will make payments faster and easier. Money can be transferred from our digital wallet to online and offline payment channels.

A digital wallet, sometimes referred to as an e-wallet, is a computerized platform that enables users to manage and save financial information, including credit and debit card details, as well as carry out online transactions.

Digital wallets are often accessed online or through a mobile device. Convenience is one of the main benefits of utilizing a digital wallet. Users may rapidly pay money to friends and make purchases on a computer or smartphone. This eliminated the need for carrying cash or visiting a bank in person to make transactions.

Another advantage of using a digital wallet is security.

When utilizing traditional payment methods, there is a chance of losing money. In digital wallets, encryption, and authentication methods are used to safeguard users' data.

Additionally, users may now more easily access financial services that are typically out of their price range or too pricey for the average individual thanks to digital wallets. Digital wallets, which allow users to use their mobile devices to perform transactions, pay bills, and access other financial services, provide a less expensive alternative.

But there are also some problems with digital wallets. One issue is that they must have a steady internet connection to function, which might be challenging in some locations.

Some digital wallets may also charge a fee for particular transactions or services, which can be expensive for people with low financial means.

The project is based WebApp technologies used are HTML,CSS,JS and Firebase (A platform for creating and distributing mobile and internet apps, Firebase offers a variety of backend services and capabilities. It is a Google-owned cloud platform featuring a variety of features, such as cloud computing, real-time databases, authentication, cloud storage, and hosting.

The authentication service provided by Firebase, which offers secure and convenient authentication for users, enables developers to swiftly integrate login and authentication capabilities into their apps.

II. DIGITAL WALLET

PayPal:-

One of the first and best-known digital wallet platforms is PayPal. By saving their payment information, such as credit and debit card data, users may use their PayPal accounts to make payments both online and offline.

Google Pay: -

Google Pay is a platform for digital wallets that they created. Users may use their Google devices to save their payment information, such as credit and debit card data, and use it to make transactions. In-app purchases and reward programs are both supported by Google Pay.
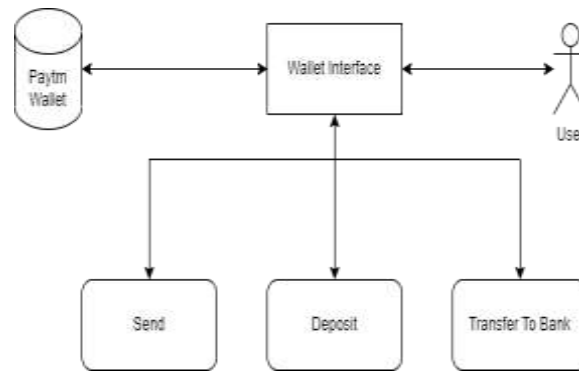
Figure 1: Block diagram of the proposed system
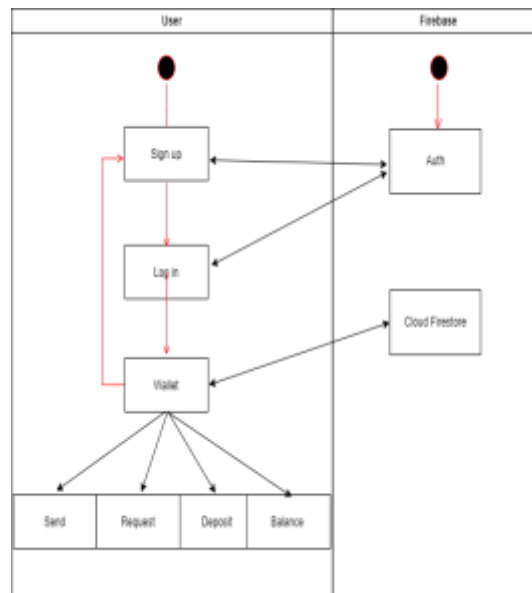
A.   Product Design

Figure 2: UML diagram of the designed system

The suggested method allows users to transact securely and quickly utilizing their digital wallets to make payments.
●It facilitates money tracking.
●Can request money or send it.
●For feature phones, can transmit money through offline SMS services.
● Admin panel for tracking users and activities.
● Protection against DOS attacks, SQL Injection, and API exploitation.
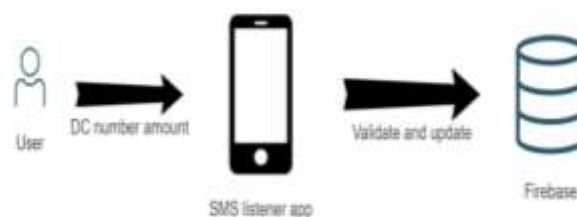
B. Product Design

Figure 3: Block diagram of offline payment system

● Money can be sent through an SMS service using offline payment systems.

●The formatted SMS is sent using a service number.

● Format DC<Space> phone number<space>amount

●A registered mobile phone number must be used to send the message.

C. App Design

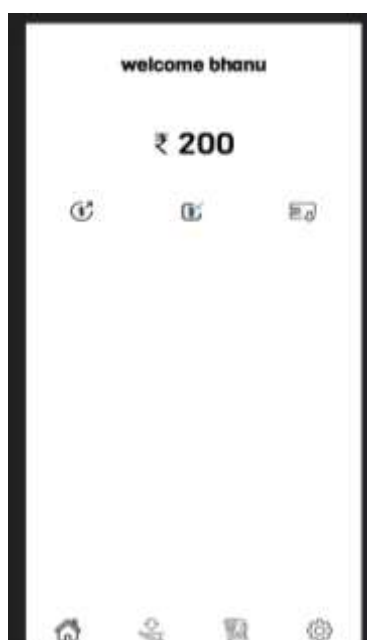**Figure 3: App Design**

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