CVR COLLEGE OF ENGINEERING

ABSTRACT

A cryptocurrency exchange app that uses swapping of two different valued tokens named EVT and DVT, and how it is implemented using Flutter frontend, Infura for smart contract integration, and Solidity for writing smart contracts.The cryptocurrency exchange app is designed to provide users with the ability to trade or swap tokens on the Ethereum blockchain. In this app, two tokens are supported: EVT and DVT. EVT and DVT are ERC-20 tokens, which means they are built on the Ethereum blockchain and follow the ERC-20 standard for token implementation.The frontend of the app is developed using Flutter, a popular cross-platform framework for building mobile applications. Flutter allows for the creation of a seamless user interface that enables users to interact with the app's functionalities easily. The app's frontend communicates with the Ethereum blockchain using Infura. Infura is a service that provides access to the Ethereum network without the need for users to run their own Ethereum node. It acts as a bridge between the app's frontend and the Ethereum blockchain. By connecting to Infura , the app can interact with the smart contracts deployed on the Ethereum network. The smart contracts that power the swapping functionality of the app are written in Solidity. Solidity is a programming language specifically designed for writing smart contracts on the Ethereum platform. The smart contracts define the rules and logic for token swapping, including price calculation, token balances, and transfer functions.