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Crypto

Student

Internship

Week 7

Tasks

Implement Create Token functionality

This functionality should allow users to create new tokens through our web app interface. Display additional button “Create new token” for logged in users which opens a new page on “/create-token” URL and displays a form for creating a new token consisting of the following fields:

- **Token name** — string, should allow user entering a token name, e.g. “My new Token”
- **Token symbol** — string, should allow user entering a valid token symbol, e.g. “MNT”
- **Max supply** — number, should allow user entering token maximum supply

There should be a “Create” button below the form. When clicked, it should create a transaction for creating a new token on the Ethereum blockchain (deploy a new ERC20 smart contract with provided data).

Add Firebase as a database

Store each created token from a previous task on Firebase so the user can choose which token to use in the application. Users' wallet address can serve as an ID for a token in Firebase. It's enough just to store created tokens contract address, there is no need to store additional data.

On the main application screen, display a list of all tokens stored in Firebase for the logged in user. After the user selects a token, all functionalities (Mint, Transfer) should be related to the selected token.

Additionally, when exploring a user address, show balances for all tokens stored in Firebase.

To create a Firebase database, you will need a Google account and a Web project created through Firebase Console on <https://console.firebase.google.com>

Read more about it here: <https://firebase.google.com/docs/database/web/start>

Good luck!