FAKE ID DETECTION USING. . . . BLOCKCHAIN

Frontend Interaction (JavaScript using Web3.js)

Code:

```javascript
const contractABI = [...];
const contractAddress = '0x...';

const productAuthContract = new web3.eth.Contract(contractABI, contractAddress);

async function registerProduct(name, manufacturer, batchNumber, account) {
  const result = await productAuthContract.methods
    .registerProduct(name, manufacturer, batchNumber)
    .send({ from: account });

  console.log('Product registered with ID:',
result.events.ProductRegistered.returnValues.productId);
}

async function verifyProduct(productId) {
  const isAuthentic = await productAuthContract.methods
    .verifyProduct(productId)
    .call();

  console.log('Product Authenticity:', isAuthentic);
}

async function getProductDetails(productId) {
  const details = await productAuthContract.methods
    .getProductDetails(productId)
    .call();

  console.log('Product Details:', details);
}
```

Prepared by prasanth peethala