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Crypto

Student

Internship

Week 4

# Task

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## 1. Build an ERC20 token

This week, we are going to build the ERC20 part of the blockchain explorer application we will build during this internship.

Your task is to implement the following functionalities of the application focusing just on the blockchain part, without adding any extra frontend components.

### Research

Before doing any development, make sure you understand the following topics:

- ERC20 standard
- Truffle
- Ganache
- Open Zeppelin

### Repository setup

Create a new folder inside of your current repository called `contracts`.  
`contracts` folder will host a solidity project bootstrapped by truffle.

### Truffle setup

Initialize a new solidity project using truffle in the previously created folder `contracts`.

### Ganache setup

Setup ganache, local blockchain node, and connect it to your truffle project.

### ERC20 contract

Create a new ERC20 contract and deploy it to Ganache network using truffle deploy commands.  
For the ERC20 standard, take a look at the Open Zeppelin implementations of ERC20 interface.

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Good luck!