# UJIAN AKHIR SEMESTER PRAKTIK SISTEM KEAMANAN DATA



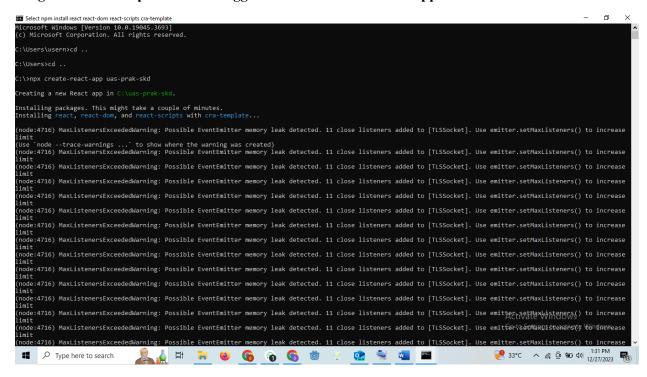
### **Disusun oleh :** DIAH MUNICA NAWANG V3922015 / TI D

### **Dosen** Yusuf Fadhila Rachman, S.Kom, M.MT

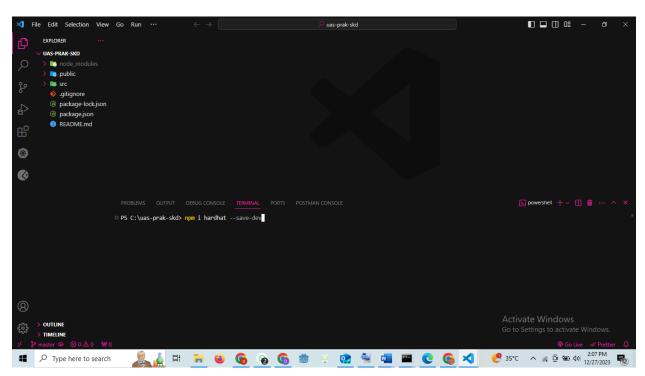
# PS D-III TEKNIK INFORMATIKA SEKOLAH VOKASI UNIVERSITAS SEBELAS MARET 2023

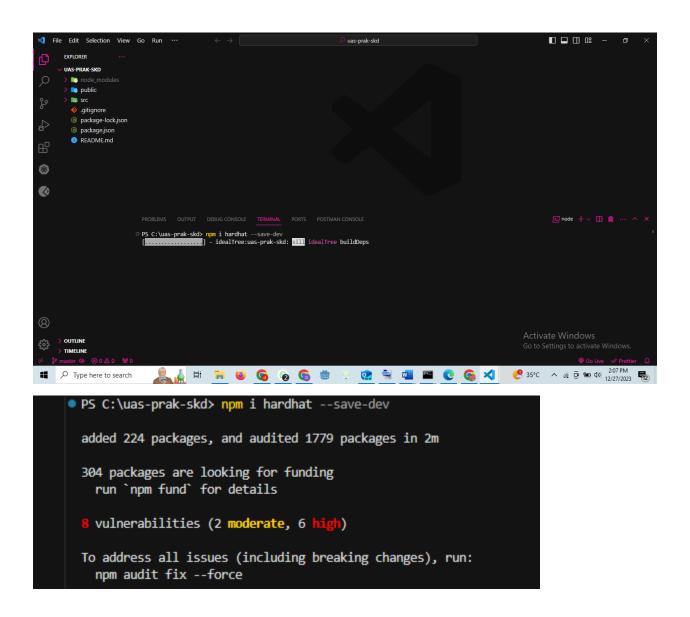
#### 1. npx create-react-app uas-prak-skd

Perintah `npx create-react-app uas-prak-skd` digunakan untuk membuat proyek React baru dengan nama "uas-prak-skd" menggunakan alat Create React App.

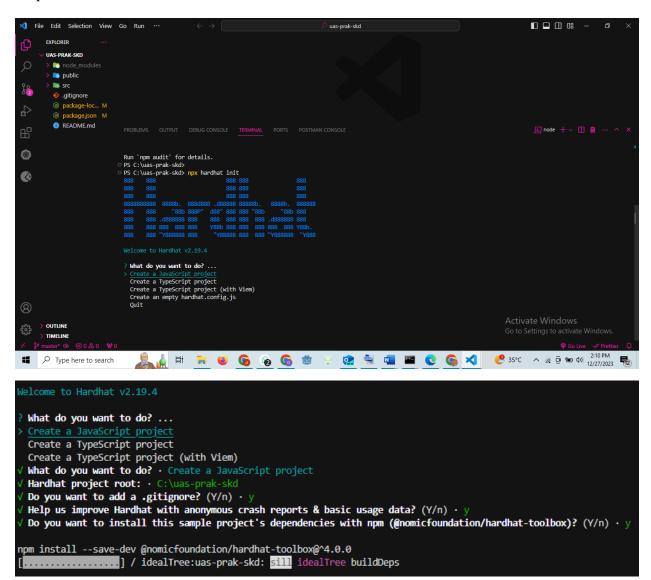


#### 2. npm i hardhat --save-dev





#### 3. npx hardhat init



```
npm install --save-dev @nomicfoundation/hardhat-toolbox@^4.0.0

added 194 packages, changed 2 packages, and audited 1973 packages in 2m

314 packages are looking for funding
    run `npm fund` for details

8 vulnerabilities (2 moderate, 6 high)

To address all issues (including breaking changes), run:
    npm audit fix --force

Run `npm audit` for details.

Project created

See the README.md file for some example tasks you can run

Give Hardhat a star on Github if you're enjoying it!
    https://github.com/NomicFoundation/hardhat

Please take a moment to complete the 2023 Solidity Survey: https://hardhat.org/solidity-survey-2023

PS C:\uas-prak-skd>
```



PS C:\uas-prak-skd> npm install -g hardhat
[##########] \ idealTree:ethereumjs-abi: sill placeDep node\_modules/hardhat bn.js@5.2.1 OK for: @ethersproject/bignumber@5.7.0 want: ^5.2.

```
PS C:\uas-prak-skd> npm install -g hardhat

added 311 packages in 1m

69 packages are looking for funding
   run `npm fund` for details

PS C:\uas-prak-skd> npx hardhat compile

Downloading compiler 0.8.19

Compiled 1 Solidity file successfully (evm target: paris).

PS C:\uas-prak-skd>
```

#### 4. Tulis script

#### contracts/Greeter.sol

```
📢 File Edit Selection View Go Run …
                                                                                                                                                                                       □ □ □ □ □ −
                                  EXPLORER
                                         //SPDX-License-Identifier: Unlicense
pragma solidity ^0.8.0;
         > 👩 cache
                                           import "hardhat/console.sol";
           > build-info
> contracts
                                           contract Greeter {
   string private greeting;
                                                constructor(string memory _greeting) {
    console.log("Deploying a Greeter with greeting:", _greeting);
    greeting = _greeting;
0
                                           function greet() public view returns (string memory) {
  console.log("Entering greet function");
  // ... rest of the code ...
  console.log("Exiting greet function");
  return greeting;
}
•
            App.js
App.test.js
            ∃ index.css
             * logo.svg
            Js reportWebVitals.js
            setupTests.js
                                                 function setGreeting(string memory _greeting) public {
  console.log("Changing greeting from '%s' to '%s'", greeting, _greeting;
  greeting = _greeting;
        > test

• gitignore M

• hardhat.conf... U

    README.md

                                                                                                                                                                             Activate Windows

Go to Settings to activate Windows.
       > OUTLINE
                                      Create a JavaScript project
Create a TypeScript project
                                         Type here to search
```

#### script/Deploy.js

```
刘 File Edit Selection View Go Run …
                              Js App.js M ♦ Greeter.sol U
       EXPLORER
                               scripts > Us deploy.js >
                                      async function main() {
   const Greeter = await hre.ethers.getContractFactory("Greeter");
   const greeter = await Greeter.deploy("Hello, Hardhat! It's Lala's Project for UAS SKD");
0
         scripts
deploy.js
                                        nain()
.then(() => process.exit(0))
.catch((error) => {
   console.error(error);
   process.exit(1);
(

∃ App.css

          App.iss
App.js
App.test.js
           us index.js
          JS reportWebVitals.js
          setupTests.js
         test
         .gitignorehardhat.conf.
         README.md
       OUTLINE
                                 Create a JavaScript project
Create a TypeScript project
                                   Type here to search
```

5. npx hardhat compile (untuk mengcompile solidity)

```
PS C:\uas-prak-skd> npx hardhat compile
Compiled 3 Solidity files successfully (evm target: paris).
```

#### 6. npx hardhat node

PS C:\uas-prak-skd> npx hardhat node
Started HTTP and WebSocket JSON-RPC server at http://127.0.0.1:8545/

Accounts
=======

WARNING: These accounts, and their private keys, are publicly known.
Any funds sent to them on Mainnet or any other live network WILL BE LOST.

Account #0: 0xf39Fd6e51aad88F6F4ce6aB8827279cffFb92266 (10000 ETH)
Private Key: 0xac0974bec39a17e36ba4a6b4d238ff944bacb478cbed5efcae784d7bf4f2ff80

Account #1: 0x70997970C51812dc3A010C7d01b50e0d17dc79C8 (10000 ETH)
Private Key: 0x59c6995e998f97a5a0044966f0945389dc9e86dae88c7a8412f4603b6b78690d

Account #2: 0x3C44CdDdB6a900fa2b585dd299e03d12FA4293BC (10000 ETH)
Private Key: 0x5de4111afa1a4b94908f83103eb1f1706367c2e68ca870fc3fb9a804cdab365a

Account #3: 0x90F79bf6EB2c4f870365E785982E1f101E93b906 (10000 ETH)

Private Key: 0x7c852118294e51e653712a81e05800f419141751be58f605c371e15141b007a6

#### 7. buat interface react

## **UAS SKD**

**DIAH MUNICA NAWANG - V3922015** 

Fetch Greeting Set Greeting
Set Greeting Message

**Greeting:** 

## 8. jika fetch greeting maka akan menampilkan greeting yang tekah dibuat

