**Node JS** - v18.13.0

**Ganache** - 2.5.4

**XAMPP** - 8.1.6-0-VS16

**Metamask chrome extension** - 10.28.2

**VisualStudio Code** - x64-1.74.0

**Installations**

**Ganache** - <https://github.com/trufflesuite/ganache-ui/releases/download/v2.5.4/Ganache-2.5.4-win-x64.appx>

**Steps of execution:**

1. Install all the above mentioned versions of softwares.
2. Open an empty folder in visual studio and follow the steps.
3. Name the folder as dapp.
4. “npm init”
5. “npm install -g truffle”
6. “truffle unbox react”
7. Now 2 subfolders in the current “dapp” folder appears like client and truffle.
8. Now create a new folder named “server” in current folder.
9. “cd server”
10. “npm init” with “index.js” as start of the script.
11. Replace the “scripts” in package.json file of client directory as:

"scripts": {

    "start": "react-scripts --openssl-legacy-provider start",

    "build": "react-scripts --openssl-legacy-provider build",

    "test": "react-scripts test",

    "eject": "react-scripts eject"

  }

1. Now open the XAMPP server, and start Apache ,MySQL servers.
2. Create a new database with the name “supplychain” and create a table named “users” as follows:

CREATE DATABASE supplychain;

CREATE TABLE IF NOT EXISTS `users` (

  `id` int(5) NOT NULL AUTO\_INCREMENT,

  `email` varchar(60) DEFAULT NULL,

  `address` varchar(60) DEFAULT NULL,

  `username` varchar(60) DEFAULT NULL,

  `password` varchar(100) DEFAULT NULL,

  `role` int(3) DEFAULT NULL,

  PRIMARY KEY (`id`)

) ENGINE=InnoDB AUTO\_INCREMENT=1 DEFAULT CHARSET=latin1;

1. Create a new workspace in Ganache with truffle-config.js of this installed react box and import those accounts into the MetaMask.
2. Open three power shells in the visual studio code with directories prompting as “dapp\web\truffle”, “dapp\web\server” and “dapp\web\client”.
3. In the truffle command prompt run the following commands:

“truffle compile FakePro.sol”

“truffle migrate” or “truffle migrate –reset”

1. In the server command prompt start the server using the command “npm start”.
2. After successful start of server now start the client running, type the “npm start” in the client command prompt.
3. Now proceed with the execution, until the execution is completing do not stop any servers that are running or not close Ganache workspace.