**Step-By-Step Project Setup**

**Pre-requisites:**

* Development environment is installed

**Creating our smart-contract project:**

* Create a directory for the project
* Open a command window and navigate to your project directory
* Execute the following command: npm init - this creates a new package.json file
* In the scripts section, replace: "test": "echo \"Error: no test specified\" && exit 1" with: "test": "mocha"
* Install all required npm modules - for example:  
  npm install --save solc mocha ganache-cli truffle-hdwallet-provider@0.0.3 web3
* Add the following folders: contracts , test
* We add the following files to the root folder: compile.js, deploy.js
* In the contracts folder, we add the file: Lottery.sol
* In the test folder, we add the file: Lottery.test.sol

**Creating our React web project:**

* Make sure, the create-react-app boiler-plate has been installed - execute: npm install -g create-react-app
* Create a directory for the project
* Open a command window and navigate to your project directory
* Execute the following command: create-react-app dapp
* Install required npm modules: npm install --save web3