

Server-Side Signed Txn (Part 4 of 4)

- 5) Writing Code (continued)
 - 1. Initialize the Web3 Provider in **app.js** just after importing dependencies.

- 2. In the above specified code change the path to the contract json file and the Infura project ID.
- 3. Copy the below Javascript code to **routes/index.js**. (provided in zip file)

```
/*---- Function for serialize, sign and send transaction-----*/
const Tx = require('ethereumjs-tx');
function sendTransaction(methodCall, ethVal, addressFrom,
privateKey, cb) {
  const encodedABI = methodCall.encodeABI();
  const privateKeyHex = Buffer.from(privateKey, 'hex');

  web3.eth.getTransactionCount(addressFrom)
    .then(txCount => {
     var txData;
```



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```
if (ethVal == null) {
      txData = {
        nonce: web3.utils.toHex(txCount),
        gasLimit: web3.utils.toHex(250000),
        gasPrice: web3.utils.toHex(1000),
        from: addressFrom,
        to: contractAddress,
        data: encodedABI
    } else {
      txData = {
        nonce: web3.utils.toHex(txCount),
        gasLimit: web3.utils.toHex(250000),
        gasPrice: web3.utils.toHex(1000),
        from: addressFrom,
        to: contractAddress,
        data: encodedABI,
        value: web3.utils.toHex(web3.utils.toWei(String(ethVal),
ether'))
    const transaction = new Tx(txData);
    transaction.sign(privateKeyHex);
    const serializedTx = transaction.serialize().toString('hex');
     web3.eth.sendSignedTransaction('0x' + serializedTx)
       .on('transactionHash', function (hash) {
        console.log('transactionHash: ' + hash);
      .on('receipt', function (receipt) {
        console.log('receipt: ');
        console.log(receipt);
        cb(true);
      })
       .on('error', function (error) {
        console.log('error: ' + error);
        cb(false);
       .catch(function (error) {
        console.log("*====Web3 Exception Handled====*\n")
        console.log(error);
        });
  })
```



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6) Run Code

Congrats!!! You have completed your coding. Now Start ExpressJS server using following command

\$ npm start

Open http://localhost:3000 in your browser.

