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ninja.wallets.vanitywallet = {
    isOpen: function () {
        return
        (document.getElementById("vanitywallet").className.indexOf("selected")
        != -1);
    },

    open: function () {
        document.getElementById("vanityarea").style.display =
"block";
    },

    close: function () {
        document.getElementById("vanityarea").style.display =
"none";
        document.getElementById("vanitystep1area").style.display =
"none";
        document.getElementById("vanitystep2area").style.display =
"none";

        document.getElementById("vanitystep1icon").setAttribute("class",
"more");

        document.getElementById("vanitystep2icon").setAttribute("class",
"more");
    },

    generateKeyPair: function () {
        var key = new Bitcoin.ECKey(false);
        var publicKey = key.getPubKeyHex();
        var privateKey = key.getBitcoinHexFormat();
        document.getElementById("vanitypubkey").innerHTML =
publicKey;
        document.getElementById("vanityprivatekey").innerHTML =
privateKey;
        document.getElementById("vanityarea").style.display =
"block";
        document.getElementById("vanitystep1area").style.display =
"none";
    },

    addKeys: function () {
        var privateKeyWif =
ninja.translator.get("vanityinvalidinputcouldnotcombinekeys");
        var bitcoinAddress =
ninja.translator.get("vanityinvalidinputcouldnotcombinekeys");
        var publicKeyHex =
ninja.translator.get("vanityinvalidinputcouldnotcombinekeys");
        try {
            var input1KeyString =

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document.getElementById("vanityinput1").value;
    var input2KeyString =
document.getElementById("vanityinput2").value;

    // both inputs are public keys
    if
(ninja.publicKey.isPublicKeyHexFormat(input1KeyString) &&
ninja.publicKey.isPublicKeyHexFormat(input2KeyString)) {
        // add both public keys together
        if
(document.getElementById("vanityradioadd").checked) {
            var pubKeyByteArray =
ninja.publicKey.getByteArrayFromAdding(input1KeyString,
input2KeyString);

                if (pubKeyByteArray == null) {

                    alert(ninja.translator.get("vanityalertinvalidinputpublickeysmatch"
h"));

                }
                else {
                    privateKeyWif =
ninja.translator.get("vanityprivatekeyonlyavailable");
                    bitcoinAddress =
ninja.publicKey.getBitcoinAddressFromByteArray(pubKeyByteArray);
                    publicKeyHex =
ninja.publicKey.getHexFromByteArray(pubKeyByteArray);
                }
            }
            else {

                alert(ninja.translator.get("vanityalertinvalidinputcannotmultiple"
));

            }
        }
        // one public key and one private key
        else if
((ninja.publicKey.isPublicKeyHexFormat(input1KeyString) &&
ninja.privateKey.isPrivateKey(input2KeyString))
||
(ninja.publicKey.isPublicKeyHexFormat(input2KeyString) &&
ninja.privateKey.isPrivateKey(input1KeyString))
) {
            privateKeyWif =
ninja.translator.get("vanityprivatekeyonlyavailable");
            var pubKeyHex =
(ninja.publicKey.isPublicKeyHexFormat(input1KeyString)) ?
input1KeyString : input2KeyString;
            var ecKey =
(ninja.privateKey.isPrivateKey(input1KeyString)) ? new
Bitcoin.ECKey(input1KeyString) : new Bitcoin.ECKey(input2KeyString);

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        // add
        if
(document.getElementById("vanityradioadd").checked) {
            var pubKeyCombined =
ninja.publicKey.getByteArrayFromAdding(pubKeyHex,
ecKey.getPubKeyHex());
        }
        // multiply
        else {
            var pubKeyCombined =
ninja.publicKey.getByteArrayFromMultiplying(pubKeyHex, ecKey);
        }
        if (pubKeyCombined == null) {

            alert(ninja.translator.get("vanityalertinvalidinputpublickeysmatc
h"));

        } else {
            bitcoinAddress =
ninja.publicKey.getBitcoinAddressFromByteArray(pubKeyCombined);
            publicKeyHex =
ninja.publicKey.getHexFromByteArray(pubKeyCombined);
        }
    }
    // both inputs are private keys
    else if
(ninja.privateKey.isPrivateKey(input1KeyString) &&
ninja.privateKey.isPrivateKey(input2KeyString)) {
        var combinedPrivateKey;
        // add both private keys together
        if
(document.getElementById("vanityradioadd").checked) {
            combinedPrivateKey =
ninja.privateKey.getECKeyFromAdding(input1KeyString, input2KeyString);
        }
        // multiply both private keys together
        else {
            combinedPrivateKey =
ninja.privateKey.getECKeyFromMultiplying(input1KeyString,
input2KeyString);
        }
        if (combinedPrivateKey == null) {

            alert(ninja.translator.get("vanityalertinvalidinputprivatekeysmat
ch"));

        }
        else {
            bitcoinAddress =
combinedPrivateKey.getBitcoinAddress();
            privateKeyWif =
combinedPrivateKey.getBitcoinWalletImportFormat();

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        publicKeyHex =
combinedPrivateKey.getPubKeyHex();
    }
    }
    } catch (e) {
        alert(e);
    }
    document.getElementById("vanityprivatekeywif").innerHTML =
privateKeyWif;
    document.getElementById("vanityaddress").innerHTML =
bitcoinAddress;
    document.getElementById("vanitypublickeyhex").innerHTML =
publicKeyHex;
    document.getElementById("vanitystep2area").style.display =
"block";

    document.getElementById("vanitystep2icon").setAttribute("class",
"less");
    },

    openCloseStep: function (num) {
        // do close
        if (document.getElementById("vanitystep" + num +
"area").style.display == "block") {
            document.getElementById("vanitystep" + num +
"area").style.display = "none";
            document.getElementById("vanitystep" + num +
"icon").setAttribute("class", "more");
        }
        // do open
        else {
            document.getElementById("vanitystep" + num +
"area").style.display = "block";
            document.getElementById("vanitystep" + num +
"icon").setAttribute("class", "less");
        }
    }
};

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