BLOCKSTACK

dantrevino.id

@dantrevino

EASILY DECENTRALIZE YOUR APPS WITH BLOCKSTACK

INTRODUCTION TO THE BLOCKSTACK IDENTITY AND STORAGE APIS FOR DEVELOPERS

GETTING STARTED

- Blockstack Browser
- Atom / VSCode
- Live Server or any lightweight web server, preferably one with hot-reload

```
npm install -g live-server
```

DEPENDENCIES AND SETUP

```
git clone https://gitlab.com/dantrevino/html5-canvas-drawing-app.g
git clone https://github.com/blockstack/blockstack.js
cd html5-canvas-drawing-app
cp ../blockstack.js/dist/blockstack.js ./

<script src="/blockstack.js"></script>
```

```
live-server --cors
```

THE HTML

```html
<div id="landing">
  <button type="button">Sign In with Blockstack</button>
</div>
<div id="app">
  <div id="page">
    <div class="header">
      <a id="new" class="navbtn">New</a>
      <div style="float:right;vertical-align:top;">
        <a id="savebtn" class="navbtn">Save</a> 
        <img id="avatar" src="https://via.placeholder.com/32x32" h
      </div>
      <div class="title"><span id="username">Unknown User</span>'s
    </div>
    <div id="content"><p style="text-align:center">Loading Canvas.
    <div class="footer">
      <div style="float:right;vertical-align:top;">
```

MANIFEST

```json
{
  "name": "Sketch",
  "start_url": "/",
  "description": "Sketch. Save. Repeat.",
  "icons": [{
    "src": "http://dant.org/sketch.png",
    "sizes": "400x400",
    "type": "image/png"
  }]
}
```

THE JAVASCRIPT

```javascript
const blockstack = window.blockstack
var user = null
const STORAGE_FILE = 'sketch.png'
```

KEY BLOCKSTACK FUNCTIONS

- blockstack.redirectToSignIn()
- blockstack.isUserSignedIn()
- blockstack.handlePendingSignIn()
- blockstack.loadUserData()
- blockstack.signUserOut()

AUTHENTICATION

```javascript
$('#signinbtn').click(function(e) {
  var origin = window.location.origin + '/'
  console.log(origin)
  var manifest = origin + 'manifest.json'
  console.log(manifest)
  blockstack.redirectToSignIn(origin,manifest,['store_write','publ
})

$('#signoutbtn').click(function(e){
  blockstack.signUserOut(window.location.href)
})
```

AUTHORIZATION

```javascript
$('#landing').toggle(!blockstack.isUserSignedIn())
$('#app').toggle(blockstack.isUserSignedIn())

if (blockstack.isUserSignedIn()) {
  this.userData = blockstack.loadUserData()
  this.user = new blockstack.Person(this.userData.profile)
  this.user.username = this.userData.username

  /* avatar and username code go here */

} else if (blockstack.isSignInPending()) {
    blockstack.handlePendingSignIn()
    .then((userData) => {
      window.location = window.location.origin
  })
}
```

PROFILE ATTRIBUTES

```
$('#avatar').attr('src',this.user.avatarUrl())
$('#username').text(this.user.name())
```

STORAGE

```javascript
$('#savebtn').click(function(e) {
    var cnvs = $('#canvas')[0]
    var mypicture = cnvs.toDataURL()
    const encrypt = true
    blockstack.putFile(STORAGE_FILE,mypicture,encrypt)
})
```

PROFIT

```
blockstack.lookupProfile('dantrevino.id','https://core.blockstack.
```

WIN!

"https://gaia.blockstack.org/hub/1PcN47KKVeYEfuxokppB1Vm3yipsFMUnJ
data:image/png;base64,iVBORw0KGgoA......=

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