BlockchainHub - Feature #24

Die unendliche Wahl

20.12.2016 20:58 - didi

Status:	New	**Due date:**	
Priority:	High		
Assignee:			
Target version:			

Description

Because of the troubles around the Austrian presidential election 2016, there was the idea to build a PoC for a blockchain based online voting.
It was about getting some practical experience and about having something *tangible* to showcase.

In the end the theme of an "infinite election" emerged and was implemented.
The election is ongoing, but restarts every midnight. The result of the previous day is shown.

For more context, see Blockvote wiki page.

Open issues:

- compat: On a Samsung Galaxy phone with default browser (seems to be a Samsung branded Chrome), the "Authenticate" button doesn't work
- ~~Layout: The string of the loading page is cut off (doesn't fit horizontally) on some mobiles~~
- Functional: The result chart is sometimes not shown.
- ~~UX: When switching view, the page should be scrolled to the top (not to previous scroll position as is now)~~ ** Still not working on mobile Firefox (didn't test other mobile browsers)
- UX: The top bar state items suggest to be buttons, should visually reflect that they are not input elements
- Eth: Check if transaction was successful
- Eth: Check if Blockchain is reorganized (tricky. Event with deleted flag)
- Eth: unsubscribe events when page in background (don't slow down the device)
- ~~compat: Support Mist and Metamask (and Status.im)~~ (TODO: should ask for account in Mist when none connected.) ** Not yet working on status (see notes)
- deploy: get rid of unused (Aurelia) depencencies
- deploy: fix bundle script
- not tested on iOS browser

Subtasks:

Feature # 30: Prettify die-unendliche-wahl.at	**New**

Related issues:

Related to lab10 - Research #26: status.im - mobile Ethereum browser	**In Progress**

Associated revisions

Revision 9e6858f4 - 04.12.2016 05:45 - didi

initial import

Revision 04542812 - 08.12.2016 16:41 - didi

- Added convenience scripts for dev blockchain and election round switching
- Added countdown to next round in result view
- Use Ethereum events instead of polling for observing election status
- Renamed main contract file
- Added relay contract. Can be used for updatable contract. Not yet used

Revision 1265692a - 08.12.2016 16:48 - didi

changed page title and loading string

Revision a81dfb8b - 08.12.2016 16:54 - didi

changed wording

Revision 8c06c9cb - 08.12.2016 17:22 - didi

lowered the gas limit to 2M

Revision 321db9a4 - 20.12.2016 22:12 - didi

fixed redirect to pdf for unsupported browsers

Revision d1c91383 - 20.12.2016 22:14 - didi

scroll to top when changing view

Revision 03e84c60 - 20.12.2016 22:16 - didi

show message instead of missing chart if nobody voted in last round, use better (?) workaround for canvas not immediately ready issue

Revision a96dd16e - 20.12.2016 22:17 - didi

smaller splash message on mobile

Revision d54651c9 - 20.12.2016 23:54 - didi

Added support for web3 aware environment. Barely tested with Metamask and Mist, untested with Status.im

Revision f4e6b418 - 21.12.2016 00:47 - didi

Retry in loop as long as result chart isn't created. This fix seems to work

History

#1 - 20.12.2016 21:03 - didi

- Description updated

#2 - 21.12.2016 00:14 - didi

- Description updated

#3 - 21.12.2016 00:27 - didi

- Description updated

#4 - 21.12.2016 00:49 - didi

- Description updated

added support for Mist, Metamask

#5 - 21.12.2016 17:54 - didi

- Related to Research #26: status.im - mobile Ethereum browser added

#6 - 21.12.2016 19:04 - didi

- Description updated

Tested on status.im.
Fails the browser compatibility test because localStorage is not available (according to Modernizr).
Also, logcat shows the following:

```
12-21 18:51:11.521  9130  9130 I chromium: [INFO:CONSOLE(2)] "Mixed Content: The page at 'https://die-unendlic
he-wahl.at/' was loaded over HTTPS, but requested an insecure XMLHttpRequest endpoint 'http://localhost:8545/'
. This request has been blocked; the content must be served over HTTPS.", source:  (2)
```

which is a bit weird.

The website is configured with the following rpc path: "rpc": "//die-unendliche-wahl.at/web3" in app/config/config.json.

This is then internally rewritten to localhost:2016 by nginx.

So, http://localhost:8545 must be a rewrite done by status.

I assume the check typeof web3 !== 'undefined' in source:die-unendliche-wahl|app/src/logic.js@d54651c9#L51 is true.

Update: the *mixed content* issue is known to the devs.