AIP-004: Blockchain Apps Meta-data

seo@ 2020-03-20

Goals

 Allow apps meta-data to be added to the blockchain and integrated with Insight (or other blockchain viewers) for search engine optimization

Problem Definition

We need a protocol to support the following scenario:

- Blockchain provides a path for applications (value:/apps)
- App data is shown on Database pages of Insight
- Usually apps have their own meta-data (e.g. home page, social link, logo, etc) (see How to <u>Update Token Information on Etherscan</u> for reference)

Requirements

- Meta-data can be added or edited by only app owners
- Meta-data needs to be recognized and used by Insight
- Meta-data can contain SEO information

Proposed Solution

Blockchain-Side

- Store apps meta-data in blockchain with dot-property
- Adopt <u>JSON-LD</u> format and use <u>Product type</u> of <u>schema.org</u>
- Support both app-level and node-level meta-data

App data:

```
/apps/afan/.meta_data: {
   "subtree": {
    type: "application/ld+json",
    value: {
        "@context": "http://www.schema.org",
        "@type": "product",
```

```
"brand": "aFan",
    "name": "aFan",
    "description": "SNS for creators and fans",
    "url": "https://afan.ai",
    "logo": "https://afan.ai/static/favicon.png",
    "image": "https://afan.ai/static/favicon.png",
    }
}
```

State node data:

```
/apps/afan/.meta_data: {
   "node": {
     type: "application/ld+json",
     value: {
        "@context": "http://www.schema.org",
        "@type": "WebPage",
        "name": "aFan posting",
        "description": "<post text>",
        "image": "https://<post image URL>",
    }
}
```

Insight-Side

- Parse .meta data.subtree if available and
 - Add it to the header of the database sub-node pages
 - Provide a link (w/ icon) to the app landing page
- Landing page for apps
 - o Provide a link to the product web-site
 - Use name (or brand), and logo (or image), and description
- Parse .meta_data.node if available and
 - Add it to the header of the database state node page

Conclusion

- Provided schema for defining app-level meta-data and node-level meta-data
- Defined an Insight feature set for meta-data from SEO perspective

Reference

- Insight SEO design doc (docs)
- How to Update Token Information on Etherscan (link)
- JSON-LD (wikipedia)
- JSON-LD Schema Generator (link)
- schema.org (<u>link</u>)
 - Product type (<u>link</u>)
- Understand how structured data works (link)

Document History

Date	Who	Change	Notes
2020-03-17	seo@	Initial draft	
2020-03-20	seo@, minsu@, lia@, csh@	Internal review	
2021-05-07	seo@	Published	