

DOS07 Exploring the Web3 Stack for Digital Editions

Background

Research in the humanities is undergoing a shift toward the use of digital data, methods, and tools. The sustainable, durable, and secure storage of such research data is a critical issue from an infrastructural perspective. For example, digital editions are typically stored on centralized library servers. This practice is contrary to our aspirations for decentralized open science, where we strive for availability, accessibility, and durability. One approach to bring digital editions to the decentralized Web3 is the use of web applications stored on FileCoin with the complementary sharing solution IPFS.

Goal

- Explore and reverse engineer an existing digital edition (e.g. DER STURM. Digitale Quellenedition), using a Web3 software stack (React, Angular, etc.)

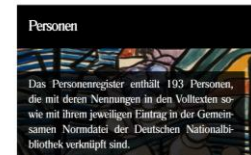
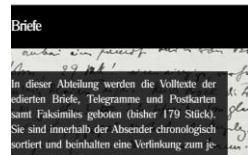
Tasks

- Transform TEI (XML files) into HTML-Tags and render them in a simple web app using CSS to mimic the original look and feel of the selected digital edition.
- Reverse engineer interactive elements of the digital edition like navigation bars etc. to mimic the original look and feel.
- Extend the web app so that further integrated data (e.g. images) will be loaded from IPFS instead of URLs.

DER STURM

DIGITALE QUELLENEDITION ZUR GESCHICHTE DER INTERNATIONALEN AVANTGARDE

PROJEKT EDITION QUELLEN REGISTER RESSOURCEN



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