Design Setup Report

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Design Setup

AfroCharts Platform Analysis

The platform, hosted at afrocharts.com, allows users to sign up for an account, establish an artist page, and upload their music along with basic metadata.

Technical Specifications

Afrocharts operates across five servers hosted on Linode, encompassing database and web servers, with all traffic being directed through Cloudflare for CDN, indexing, and caching purposes. For storage needs, Afrocharts employs Backblaze, offering functionality similar to S3 buckets. The backend of Afrocharts is developed using PHP, while the frontend relies on JavaScript and HTML, with MySQL serving as the database solution. Notably, the platform does not utilize any specific development framework and is not integrated with any Digital Service Providers (DSPs) or distributors.

User Features

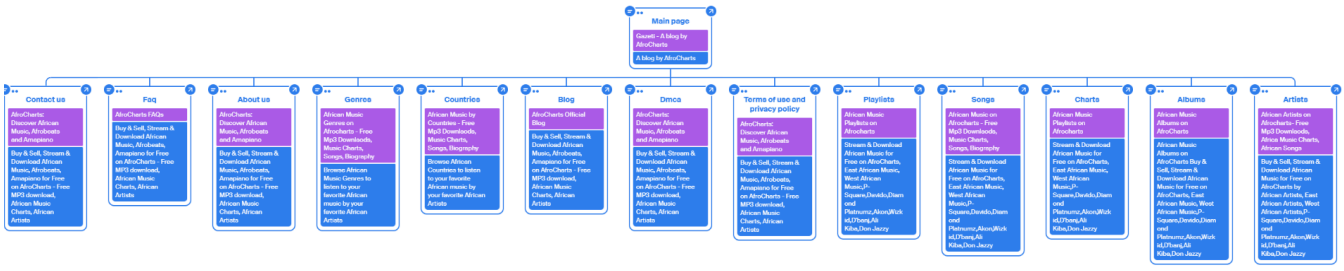
1. Account Creation
2. Create an Artist page
3. Upload Your Own Songs
4. Listen and Save Albums
5. Search for songs, artists and albums
6. Play album created by users around the world
7. Buy and sell your music
8. VIEW Songs
    1. By Countries
    2. By Genres
    3. By searching
9. VIEW artists
    1. By Countries
    2. By Genres
    3. By searching
10. VIEW Weekly Charts
    1. By Countries
    2. By Genres
11. VIEW Trending Songs
    1. By Countries
    2. By Genres
12. Artists Following
13. Artists Share
14. Create unlimited playlists
15. Unlimited Free HQ mp3 Downloads and listens
16. Direct Download into your mobile devices for offline listening
17. Both DESKTOP and MOBILE friendly
18. BROWSE our entire website without music STOPPING
19. REPEAT songs
20. SHUFFLE songs

Sitemap

sitemap.xml

```
<sitemapindex xmlns="http://www.sitemaps.org/schemas/sitemap/0.9">
  <sitemap>
    <loc>https://www.afrocharts.com/sitemap-main.xml</loc>
  </sitemap>
  <sitemap>
    <loc>https://www.afrocharts.com/sitemap-songs.xml</loc>
  </sitemap>
  <sitemap>
    <loc>https://www.afrocharts.com/sitemap-artists.xml</loc>
  </sitemap>
  <sitemap>
    <loc>https://www.afrocharts.com/sitemap-playlists.xml</loc>
  </sitemap>
  <sitemap>
    <sitemap>
      <loc>https://www.afrocharts.com/sitemap-albums.xml</loc>
    </sitemap>
    <loc>https://www.afrocharts.com/sitemap-songs-07-22-2020-10-00-23.xml</loc>
  </sitemap>
  <sitemap>
    <loc>https://www.afrocharts.com/sitemap-songs-02-04-2021-10-00-17.xml</loc>
  </sitemap>
</sitemapindex>
```

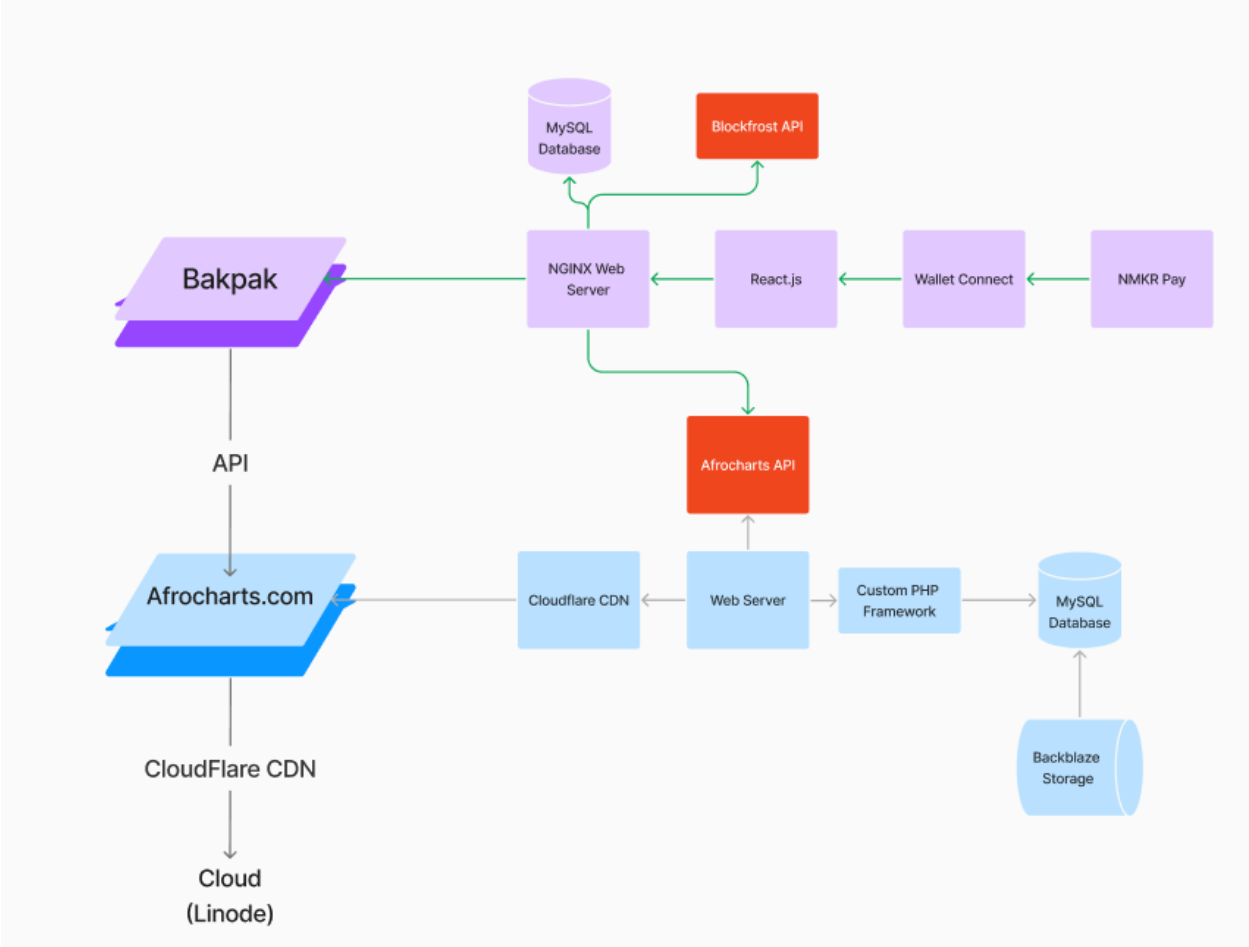
sitemap-main.xml



Web3 Portal Integration

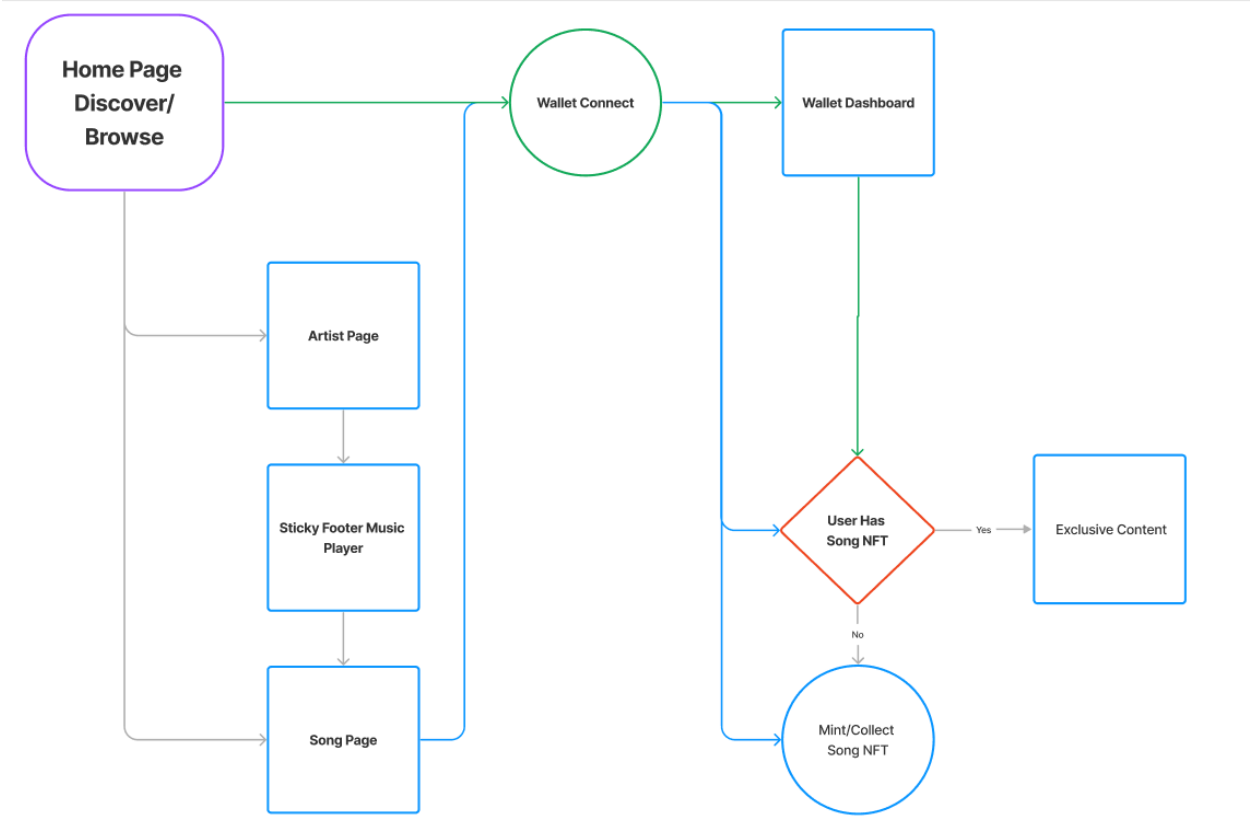
The diagram provides a visual representation of how the Afrocharts platform may integrate with the Web3 portal, Bakpak. The Afrocharts API acts as the bridge that facilitates communication between Afrocharts and the Bakpak portal.

The Bakpak portal is illustrated as a separate entity that interfaces with the Afrocharts API. The Bakpak system architecture comprises an NGINX web server, which delivers content built with React.js, and is equipped with a Wallet Connect feature for cryptocurrency transactions, alongside NMKR Pay for handling payments. Additionally, Bakpak integrates with the Blockfrost API to enable blockchain functionalities.



User Flow

The diagram illustrates the user flow within the Bakpak platform for collecting Afrocharts.com artist's collectibles through a series of interconnected web pages and decision points that incorporate NFT technology.



- **Home Page/Discover/Browse:** This is the primary interface for users to explore and interact with the content on the platform. From here, users can navigate to specific artist pages or song pages to engage with the content further.
- **Artist Page:** This page provides detailed information about specific artists from Afrocharts.com. Users can learn about the artist's work, biography, discography, and any associated collectibles.
- **Sticky Footer Music Player:** A consistent UI element across the platform, the Sticky Footer Music Player allows users to listen to music uninterrupted as they browse different pages within the platform.
- **Song Page:** Dedicated to individual songs, this page offers users the ability to listen to tracks, view lyrics, and access related artist collectibles.
- **Wallet Connect:** This feature is central to the platform's user flow, enabling users to connect their digital wallets to the Bakpak platform. The wallet connection is required to authenticate ownership and transactions of NFTs.

- **Wallet Dashboard:** After successfully connecting their wallet, users are directed to the Wallet Dashboard. This dashboard displays the user's current collectibles, transaction history, and options for acquiring new NFTs.
- **User Has Song NFT:** This decision point assesses whether the user currently owns the NFT for a particular song.
    - If the user does own the song NFT, they are granted access to "Exclusive Content". This content may include special editions of songs, behind-the-scenes material, or other premium content only available to NFT owners.
    - If the user does not own the song NFT, they are prompted to "Mint/Collect Song NFT", allowing them to acquire the NFT directly within the platform.

Potential Integration Frameworks

Establishing a Dedicated Hosting Environment
Subdomain Creation: The primary step involves setting up a dedicated subdomain (e.g., bakpak.afrocharts.com) specifically for hosting the new web portal. This approach isolates the portal from the main website, allowing for specialized security measures, tailored user experiences, and independent scaling options.

Choosing a Hosting Service: Evaluate hosting services that offer optimal performance and reliability for React-based applications. Consider factors like scalability, security, CDN availability, and support for continuous integration/continuous deployment (CI/CD) pipelines.

Most important thing to do is to build a separate subdomain that Awen can host that will host the web portal built in react.

What we need to establish is if this works with Leonard and what value will the web3 integration add to the existing interface.

External Documents

Afrocharts Partner API Document

See *AfroCharts_Partners_API_Documentation_V1.pdf* in the Github repository to see supporting documentation on Afrocharts API specifications.