QBurst | A High AI-Q™ Company

Charitable Giving and Fundraising Platform

Empowering global philanthropy with a seamless mobile and web-based solution that integrates diverse payment gateways and IRS-validated non-profit discovery.

Overview

QBurst developed a high-performance fundraising ecosystem featuring a Flutter mobile app and a Python/Django web platform to simplify charitable giving. The solution integrates a wide array of payment methods, including a specialized Coinbase Commerce integration for cryptocurrency and a "Guest Mode" to eliminate onboarding friction. By leveraging AWS Elastic Search, the platform enables users to instantly find and support IRS-approved schools, religious organizations, and Native American Nations.

- **Frictionless Giving:** Implemented a "Guest Mode" that allows donors to contribute instantly without creating an account, significantly increasing conversion rates for spontaneous campaigns.
- **Crypto-Ready Infrastructure:** Partnered with Coinbase to offload complex payment processing, enabling secure donations via Bitcoin, Ethereum, and Litecoin.

Client Profile

Based in the United States, the client is a technology firm dedicated to bridging the gap between donors and non-profit organizations (NPOs). They provide the digital infrastructure needed for individuals, businesses, and financial institutions to manage large-scale charitable campaigns with transparency and ease.

Challenges: User Friction and Limited Payment Agility

In the competitive landscape of digital giving, the client identified several key barriers to donor engagement.

- **Mandatory Registration:** Most platforms require full profile creation, which often leads to "cart abandonment" by donors who prefer privacy and speed.
- **Limited Payment Versatility:** Traditional platforms rarely support modern payment methods like cryptocurrency or popular digital wallets (Venmo, Apple Pay), limiting the donor base.
- **Search Complexity:** Users found it difficult to verify the legitimacy of organizations or search across specific categories like Native American Nations or specific schools.
- **Receipting Hurdles:** Automating tax-deductible receipts for both registered and guest users was a significant operational requirement.

QBurst Solution: Multi-Channel Giving Ecosystem

We architected a robust backend using Python/Django and Java, supported by an AWS infrastructure for high availability and search speed. The frontend utilizes Flutter to provide a consistent, high-quality experience across iOS and Android devices.

- **Coinbase Commerce Integration:** Developed a secure request-link system where the backend communicates with the Coinbase API to generate dynamic payment pages. This allows donors to pay via QR code or direct wallet-app triggers.
- **Agile Payment Stack:** Integrated Stripe for credit cards alongside Apple Pay, Google Pay, and Venmo to cater to donor preferences.
- **High-Speed NPO Discovery:** Implemented AWS Elastic Search to allow users to filter through thousands of IRS-approved entities with sub-second latency.
- **Automated Tax Governance:** Built a logic engine to generate and email tax receipts instantly, even for users operating in "Guest Mode."

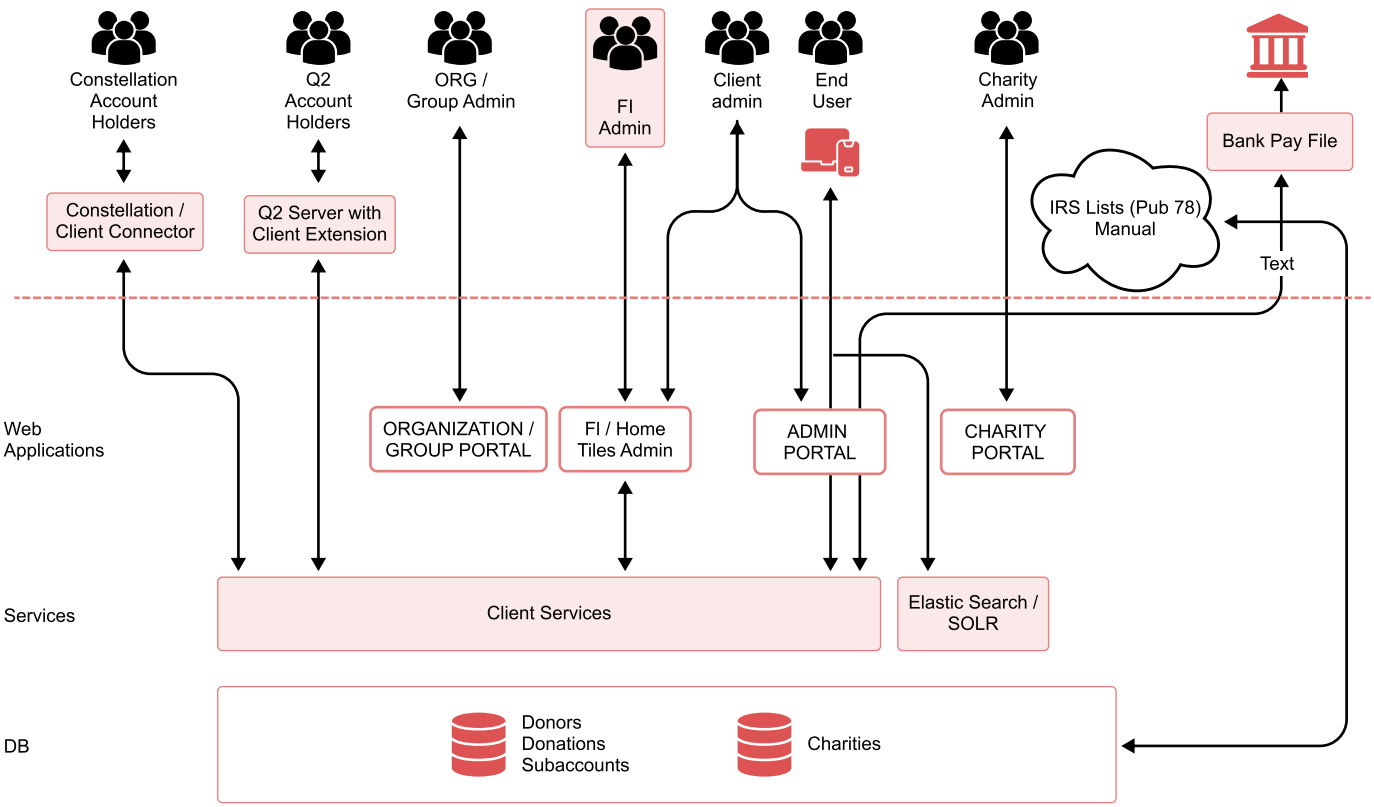
Key Features and Technical Highlights

The platform provides a full suite of tools for both donors and campaign organizers:

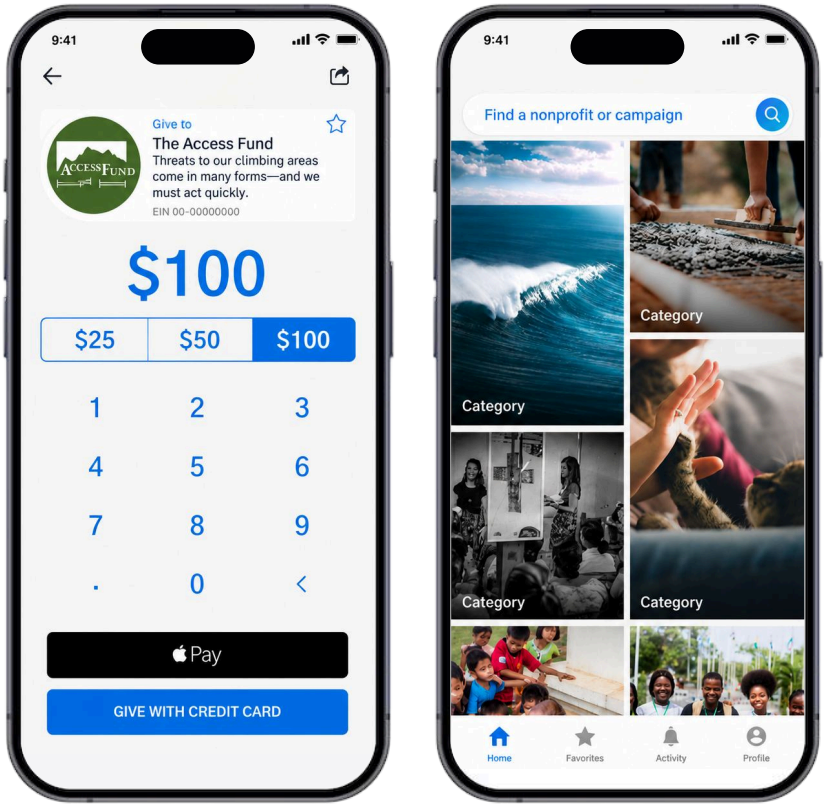
- **Campaign Orchestration:** Enables users and businesses to create, organize, and share specific fundraising campaigns across social media.
- **Guest Mode Giving:** A "Quick-Donate" flow that captures only essential information without requiring a password or profile.
- **Advanced Analytics Dashboard:** Provides administrators and fundraisers with real-time data on donation trends and campaign performance.
- **Multimedia Gallery:** Hosted on AWS S3 to allow NPOs to showcase their impact through high-resolution images and videos.

Implementation Approach

The solution was built with a "Privacy-First" mindset. By offloading sensitive payment data to trusted partners like Stripe and Coinbase, we ensured the platform remains lean, secure, and compliant with international financial standards. The use of a Python/Django backend provided the flexibility needed to manage complex NPO metadata and reporting requirements.



Platform Architecture



Donation Interface & Discovery

Impact

- **Increased Donor Conversion:** The "Guest Mode" successfully captured a wider demographic of donors who previously avoided registered platforms.
- **Operational Scalability:** Utilizing AWS services like EC2 and Elastic Search ensures the platform can handle massive traffic spikes during global emergency relief efforts.
- **Trust & Transparency:** Real-time search of IRS-approved databases has increased donor confidence and platform credibility.
- **Modernized Giving:** By incorporating cryptocurrency, the client has successfully tapped into the tech-savvy "Generation Web3" donor base.