

Paths2Abundance Global charity platform on the Hedera Hashgraph





P₂A

Solutions

Projects

Organizations

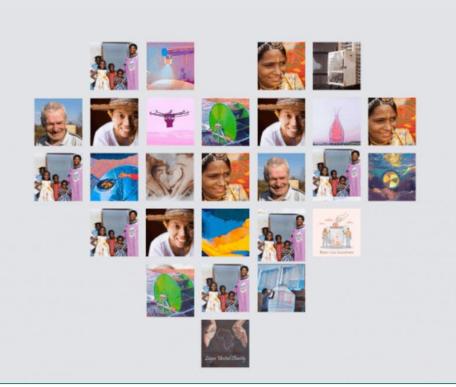
Connect Wallet

A global **charity** platform

Paths2 **Abundance**

Help communities help themselves through **frugal innovations**

Make a Donation



Frugal Innovations



Simple, low cost, easy to setup and use, portable, versatile, and extensively applicable for the benefit of humanity.



HyPump



Water-Gate



Warka Water



WaterLily



Solar Cooker



Fog Catchers



ecoDrone



Water-Saving Nozzle



Clay Refrigerator

Proposition



 Global charity platform, helping communities help themselves, through frugal innovations.



2. Enables donors to pave the paths to abundance through **donation of solutions**: tools, equipment, materials, methods, and information.



3. Solutions are "frugal innovations," meaning that they are simple, low cost, easy to setup and use, portable, versatile, and extensively applicable for the benefit of humanity.



4. Project **combines** multiple categories of blockchain, namely **charity, NFT**, and **e-commerce**.



- 5. The project and the underlying database are designed to also accomodate a DAO in the future.
- 6. Composable platform, that can easily be extended with new Solutions, Organizations, and Projects.
- 7. Project described with extensive documentation.

Benefits to Hedera Ecosystem



- 1. Unique: Charity for frugal innovation donations, rather than other types of donations (ex: food, medicine).
- 2. To the best of our knowledge, P2A is to be the **first platform of its** kind in the blockchain world.
- 3. Hedera-first boilerplate for Hedera's developer community.
- 4. Hedera developers can develop similar charity platforms in the future with much **shorter life cycles and lower costs**, turning **Hedera into a hub of charity dapps.**
- 5. Increasing the visibility, popularity, and usage of Hedera Protocol, and bring transactional volume to the HBAR token.
- **Extensive documentation** to assist future Hedera developers.











Roles



Organizations

Donors





Governors

Developer Team

Implemented

Not implemented

Process Flow

Implemented

Partially implemented



- **1. User** opens the P2A website, Hashpack wallet pops.
- **2. User** connects the Hashpack wallet to the P2A dapp.



- **3. Home Page** displays basic information about P2A website and dapp.
- **4. User** browses to the **Solutions** page, where frugal innovation solutions, that pave the paths to abundance, are listed.
- **5. User** clicks "Find Out More" button for a Solution and sees detailed information about that Solution.
- 6. User browses to the Organizations page, to see the list of Organizations active in the system.
- **7. User** clicks "Find Out More" button for an Organization and sees detailed information about that Organization.

- 7. User browses to the Projects page, to see the list of Projects active in the system.
- **8. User** clicks "Find Out More" button for a Project and sees detailed information about that Project.
- 9. In a Project's details page, **User** can enter the number of donations s/he wants to make, and clicks the Donate button to donate by minting donation NFT. In this case, the **User** is assigned the role of **Donor.**



10. Donor can browse to the **Profile** page, to see her/his role, as well as HBAR and PATH balances.



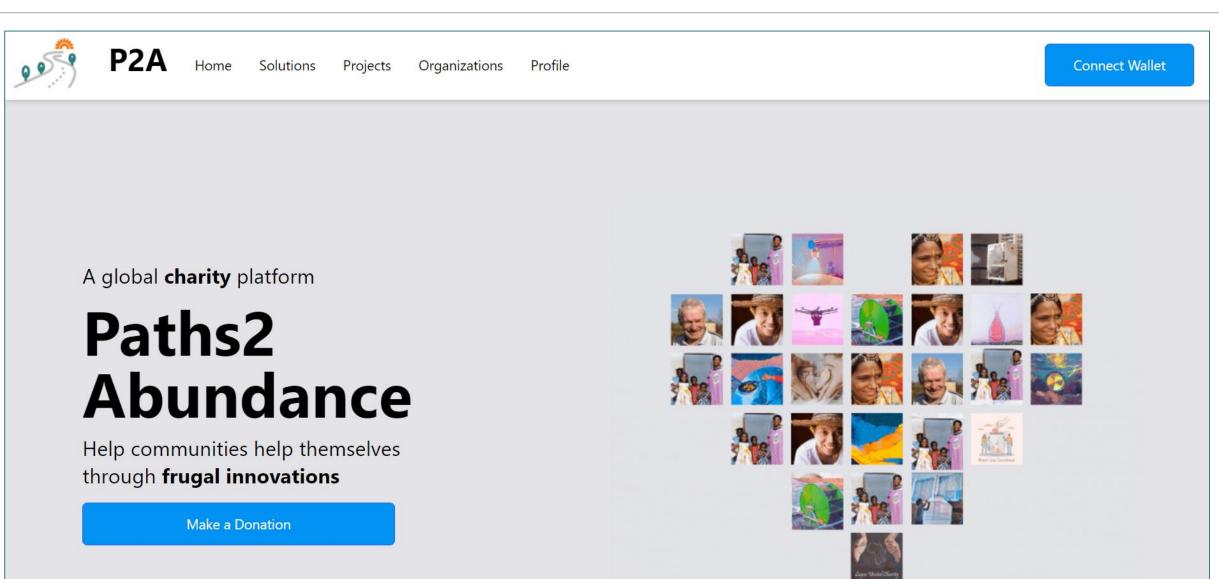
11. Organization connects to the dapp with Hashpack wallet.



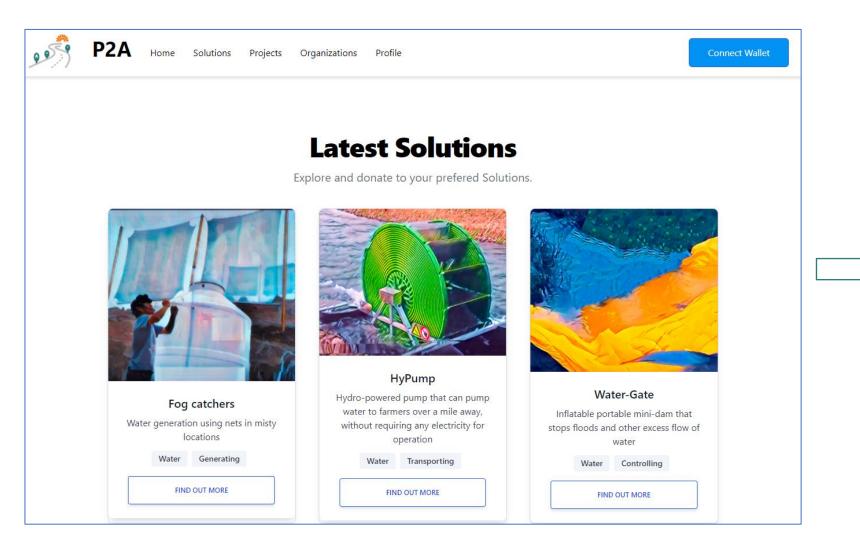
12. Organization can claim the HBAR that Donors have donated through the Projects page.













Fog catchers

About the Solution:

Fog catchers is a solution that is part of the Water category, with its nature being Generating It involves Water generation using nets in misty locations. The estimated cost for the solution is 2300, 100 USD for each net, 15 nets minimum, giving 1500 USD for nets. Then another 750 USD for water tank and piping. 2250 USD total.

The main application scenarios for the solution would be in Higher elevated remote locations with myst, or very mysty locations.

Source: https://youtu.be/YxRONAZoMDk

Scores out of 10:

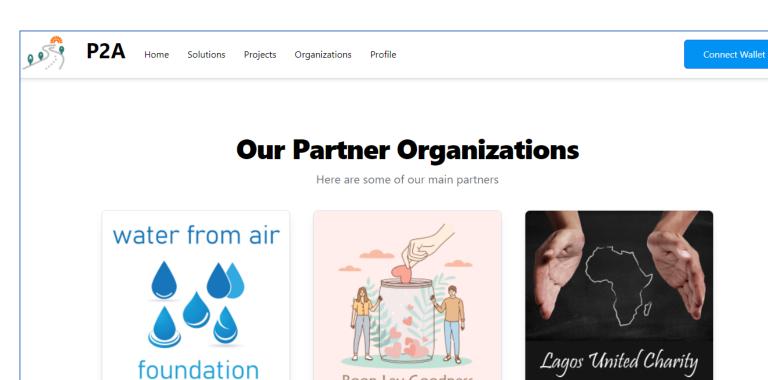
Low Tech: 9

Simplicity: 8

Portability: 7

versatility: 7





Boon Lay Goodness **Boon Lay Goodness** Movement, Singapore Our charity organization is to reduce all types of suffering for people around the world. Dont eye power. Instead, join us and contribute.

FIND OUT MORE





Source: https://paths2abundance-nextjs-just-jam.vercel.app/

Water From Air Foundation,

Turkey

Lack of access to water is the root of

many economic and social problems

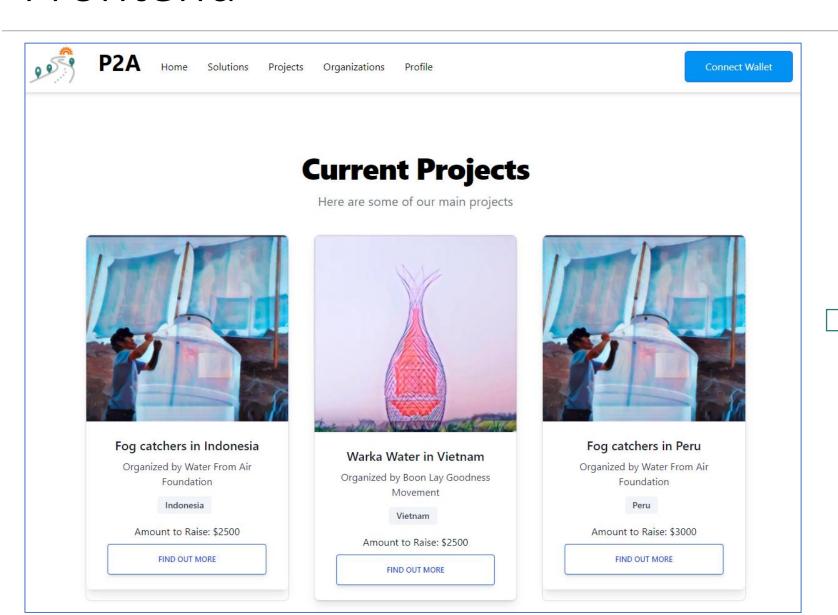
around the world. Our charity tackles

and aims to resolve this problems for

communities around the world.

FIND OUT MORE

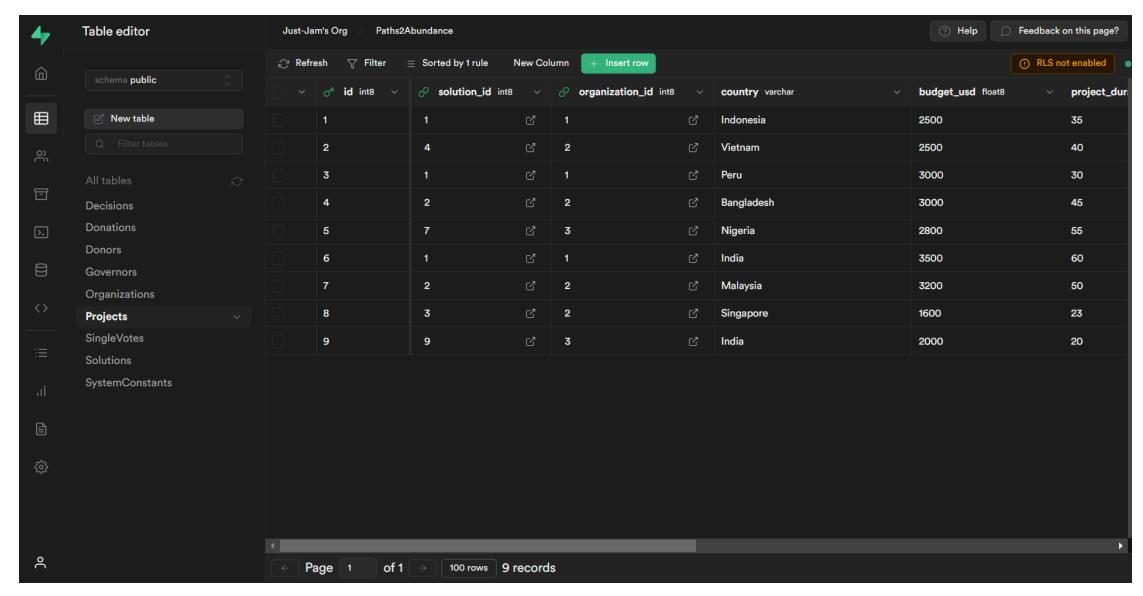






Backend – Database @ Supabase

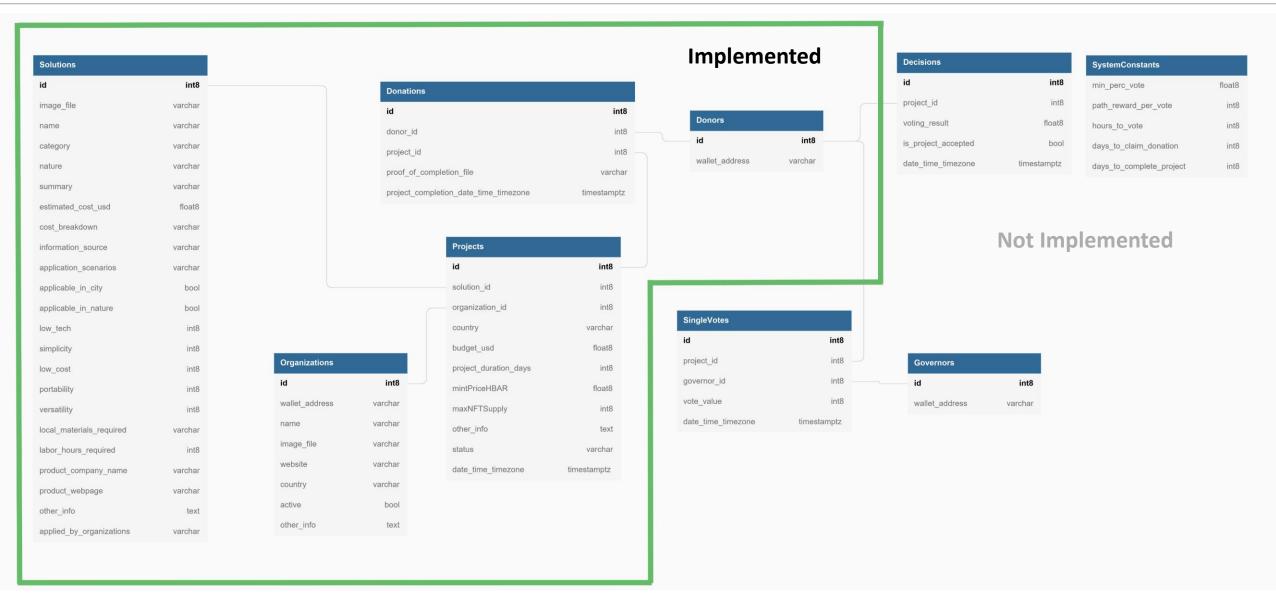




Source: https://github.com/Just-Jam/Paths2Abundance-nextjs/blob/main/doc/Database.md

Data Schema





Database SQL Dump



```
ataDumpForP2A.sql 🗵 📙 Gurdal - Hedera Hackathon - Project Description.txt 🗵
1269
1270
1271
        ALTER TABLE auth.instances OWNER TO supabase auth admin;
1272
1273
1274
        -- Name: TABLE instances; Type: COMMENT; Schema: auth; Owner: supabase auth admin
1275
1276
1277
        COMMENT ON TABLE auth.instances IS 'Auth: Manages users across multiple sites.';
1278
1279
1281
        -- Name: refresh tokens; Type: TABLE; Schema: auth; Owner: supabase auth admin
1282
1283
1284
       CREATE TABLE auth.refresh tokens (
1285
            instance id uuid,
1286
            id bigint NOT NULL,
1287
            token character varying (255),
1288
            user id character varying (255),
            revoked boolean,
1289
1290
            created at timestamp with time zone,
            updated at timestamp with time zone,
1291
1292
            parent character varying (255)
1293
1294
                                                                                                      Postgre SQL
1295
1296
        ALTER TABLE auth.refresh tokens OWNER TO supabase auth admin;
1297
1298
Structured Query Language file
                                                       length: 132,533 lines: 3,959
                                                                             Ln: 1,272 Col: 1 Pos: 38,569
                                                                                                         Windows (CR LF)
                                                                                                                    UTF-8
                                                                                                                                 INS
```



Frontend

- React.js/Javascript
- Next.js framework
- Tailwind CSS
- HashPack Wallet







Backend

- Supabase for data storage
- Hardhat for smart contract compiling and testing.
- Solidity for custom smart contract
- OpenZeppelin smart contract standard
- Hedera Testnet
- Hashconnect library
- Hedera Javascript SDK
- Node.js
- Hethers.js
- dbdiagram for designing the data schema







Project Management & Other

- Vercel
 - for deployment
- GitHub
 - as the code repository
- Aspose App
 - for converting MS Word document to md
- Discord
 - for communication and coordination
- 11Sight
 - for video meetings





Content Curation

- Yaylmages, DepositPhotos, and TheNounProject
 - for copyright-granted stock images and icons
- Prisma app
 - for Solutions art work
- Filmstro and Uppbeat
 - for copyright-granted music
- BerryCast, Loom
 - for screen recording
- Tyle
 - for animated NFT banners
- Cyberlink PowerDirector
 - for video production
- AicooSoft Video Converter
 - to reduce video sizes
- Ezgif.com
 - To convert videos to animated gif



Benchmark with Kiva



kiva Kiva	Paths2Abundance (P2A)
Microfinance lending platform; money is expected back, with interest.	Charity platform, with no payback expected.
Project proposals come directly from people who will get the financing.	Project proposals come not from people, but instead from charity organizations.
No visibility or break-down of how the amount requested will be spent.	 Cost and its breakdown are provided for the Solution at the producer of the tool. So, it is much easier in P2A, to estimate how much overhead is involved on top of the basic cost of the Solution.

Future Extensions (1/2)



- **1. Organizations** should be able to **submit Solutions** and Projects from **within the dapp.**
- **2. DAO** needs to be functionalized, with Governors (G), voting process, and decisions, all implemented within the dapp.
- **3. Governors should earn tokens** for their role in and time dedicated to governance.
- 4. There should be **NFTs minted for different roles**, and users should be enabled to only the functions that their NFTs allow for.
- 5. Users can give **ratings to Solutions and Organizations**, where the ratings may have weights based on the User's PATH holdings.

Future Extensions (2/2)



- **6. Analytics dashboard/module:** Helping Donors and other Users in decision making.
- 7. Dapp can **track and send notifications** to Organizations, to encourage timely completion of projects.
- 8. Organizations should be required to provide "proof-of-completion" file upon completing projects.
- 9. Escrow account that would release the funds only as project progresses provably.

Branding



1. Project Title: Paths2Abundance (P2A)

2. Website: https://paths2abundance.org

3. QR Link: https://qr.io/r/IAgQix

4. Brand Archetype: Caregiver (Source: https://iconicfox.com.au/brand-archetypes/)

5. Color Scheme: 2c7d78 (dark green), 0192d3 (dark blue), 5b6979 (dark gray),

a1b1c2 (light gray), ffffff (white), FE7209 for sun in the logo.

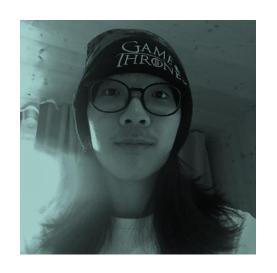
6. Logo: Path with trees (tools of abundance) leading to sun (abundance)

7. Fonts: Sans-Serif

8. Font Colors: N/A

Team





Sam Lin



Just-Jam



samlyc11



Emeka Agara



EmekaAgara



realagara



Yan Xu



aTypicalYX



dooyanxu



Gürdal Ertek



gurdalertek



gurdalertek

Dapp & Doc





Live Dapp:

https://qr.io/r/K6AG5W



Documentation @ GitHub: https://qr.io/r/rKwGof

Live Demo







