

IDEA IGNITE

TEAM - SOLUTIONERS

TOPIC - HEART-2-HEAR (A Blockchain-Driven Mental Health Support Platform with Real-Time Communication)

MEMBERS :-

T.HARISH KUMAR

ROKESHWARAN

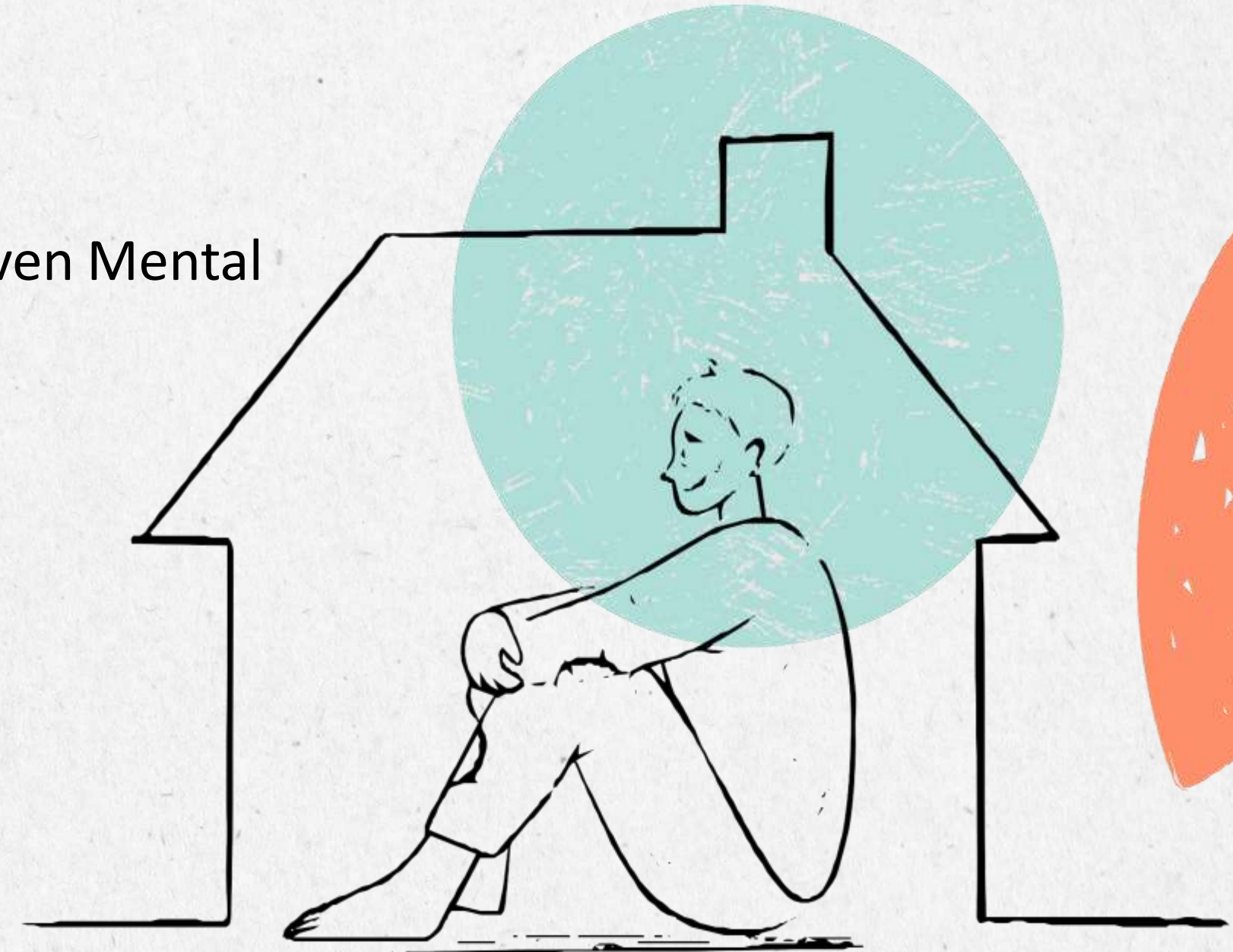
KIRAN SURYA KUMAR

SETHUMADHAVAN

FULL VIDEO - [Click Here](#)

Hosted link – [Here](#)

GitHub link - [Here](#)



PROBLEM

In today's fast-paced world, many individuals experience depression and mental health challenges, often feeling isolated and unsupported. Access to professional mental health services can be limited due to various barriers such as cost, stigma, and availability.

SOLUTION

Our platform aims to bridge this gap by connecting individuals experiencing depression with compassionate volunteers who offer supportive listening and empathy. By leveraging technology, we facilitate meaningful connections, providing an accessible and community-driven solution to mental health support. Volunteers are matched with users based on mutual availability and preferences, ensuring a personalized and effective support system.



Uniqueness and Inovativeness :-

1.This innovative approach not only fosters a sense of community but also empowers volunteers by recognizing their contributions through a token-based reward system, recorded securely on a blockchain.

2.By addressing the critical need for accessible mental health support, our platform strives to make a positive impact on the lives of those struggling with depression.



Mind map

Homepage
Options: Register | Login Register
Enter User Details (Name, Email, Password, etc.)
Choose Role: User | Volunteer If User:
Enter Preferences (Availability, Language, Specific Needs) Profile Creation
If Volunteer:
Enter Preferences (Availability, Language, Areas of Expertise) Profile Creation
Login
Enter Email & Password
Redirect to Dashboard (Based on Role: User | Volunteer)
Dashbo
ard If
User:
Browse Volunteer Profiles Schedule Call
If Volunteer:
Browse User Requests Accept Request Matching Process
Algorithm matches Users with Volunteers based on Preferences and Availability
Support Session
Conduct Call/Chat
Session Post-Session
Post-Session (Feedback & Token Rewards)



Why face it alone?
Connect, share,
heal.



Registration form fields:

- Username: Shreya Ojha
- Age: 19
- Mobile: 7677033822
- Email: shreyaojha81@gmail.com
- Interests: Travelling
- Language: English
- Gender: Female
- Role: Client
- Password: ...
- Confirm Password: ...

Register

Login form fields:

- Mobile No: 7677033822
- Password: ...

Login

Suggested Users

helper2
Age: 20
Language: ENGLISH
★★★★☆

helper1
Age: 20
Language: ENGLISH
★★★★☆



User Profile for muthuram

Name: muthuram
Email: mr@gmail.com
Mobile: 9524889202

Age: 20
Gender: male
Language: ENGLISH
Interests: Sports
Availability: Available
Role: helper

Call Count: 7
Coins: 310
Tokens: 5
Ratings: 4.0

Go Offline

- Home
- Requests
- Crypto
- LogOut



Chat Interface for muthuram

hello

Hi

Join Call

Join Call

Join Call



Crypto Dashboard

Connected Account: 0x581147E4D4180Eb2C3F6f9Bc1A614F1885e94C33

Available Coins
410 Coins

You will get 1 tokens and 0 coins will be left.
Conversion Rate: 100 coins = 1 token

Available Tokens
4 Tokens

[Convert Coins to Tokens](#)

Sepolia test network

Dev Acco... 0x3aD89...0...

0x3aD89...09320 CONTRACT INTERACTION

DETAILS HEX

Estimated changes

You receive
+0.0000001 0x3aD89...09320
Not Available

Estimated fee 0.00013269
0.00013269 SepoliaETH

Sits suggested Max fee: 0.00013273 SepoliaETH

[Reject](#) [Confirm](#)

Tech stack used

1.React.js: React.js was used to build the user interface of the application, enabling the creation of dynamic and responsive web pages for a seamless user experience.

2.Node.js: Node.js handled the server-side logic, processing requests, and managing application routing to ensure efficient and scalable backend operations.

3.MongoDB: MongoDB served as the database to store user information, preferences, session data, and other relevant information, allowing for flexible and scalable data management.

4.Solidity: Solidity was used to write smart contracts for the token-based reward system, ensuring secure and transparent operations on the blockchain.

5.Web3.js: Web3.js enabled interaction between the React frontend and the Ethereum blockchain, allowing the app to communicate with smart contracts and manage token transactions.

6.MetaMask: MetaMask facilitated users' blockchain transactions, allowing them to authenticate, manage their crypto assets, and participate in the token reward system.

7.Socket.io: Socket.io enabled real-time, bi-directional communication between the client and server, which was crucial for live messaging and support session features.

8.Zegacloud API: Zegacloud API provided the calling functionality within the application, enabling voice or video communication between users and volunteers for support sessions.

Hosted link - [Here](#)

KEY BENIFITS

Enhanced Accessibility to Mental Health Support

Wider Reach: Provides mental health support to individuals who might otherwise have limited access due to geographical, financial, or social barriers.

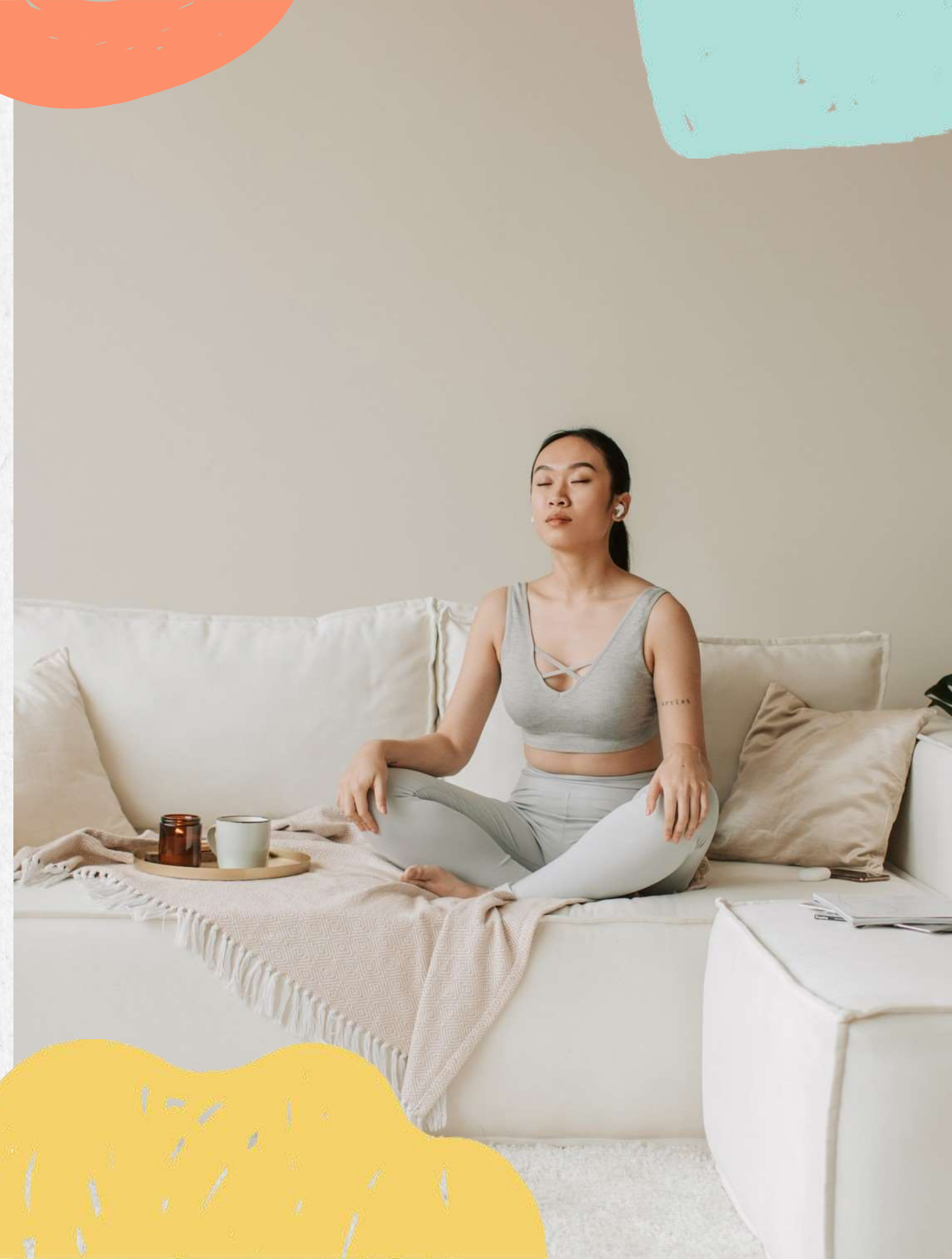
Timely Help: Ensures timely support, potentially preventing the worsening of depressive symptoms.

Innovative Use of Technology

Blockchain for Transparency: Utilizes blockchain technology for recording transactions, ensuring transparency and trust in the reward system, enhancing volunteer satisfaction.

Reduction of Mental Health Stigma

Community Awareness: Fosters open conversations about mental health and involves community members as volunteers, helping to normalize mental health issues and reduce associated stigma.





Thank you
very much!