

CHATBLOCK

TEAM NAME:
CHANGEMAKERS

Github Repo: <https://github.com/Harshit-RV/chatblock>
Live Demo: <https://chatblock-bay.vercel.app>

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PROBLEM STATEMENT

Create a conversational payments app using blockchain.

SIGNIFICANCE OF PROBLEM STATEMENT

Accessibility and Convenience

By integrating conversational interfaces such as chatbots or voice assistants with blockchain-based payments, users can conveniently initiate transactions using natural language commands or interactions. This accessibility can appeal to a broader range of users, including those less familiar with traditional banking or digital payment methods.

Streamlined Transactions

Conversational payments apps can streamline the payment process by allowing users to complete transactions quickly and efficiently through natural language interactions.

Innovation and Differentiation

Developing a conversational payments app using cutting-edge technologies like the Neucron API demonstrates innovation and differentiation in the fintech space. Such an app can attract attention from users, investors, and industry stakeholders, positioning the creators as pioneers in the field of blockchain-powered conversational commerce.

User Engagement and Experience

Conversational interfaces offer a more engaging and personalized user experience compared to traditional payment methods. Users can interact with the payment app conversationally, leading to a more intuitive and enjoyable experience that encourages continued usage.

SOLUTIONS

Solution 1

Approachable Blockchain Wallet for Everyone(ABWE).

Solution 2

Sign Up which automatically creates a wallet for you with the email ID registered.

Solution 3

Create new blockchain wallets using the neutron api.

Solution 4

Easily check your wallet balance, wallet list and view previous transactions.

Solution 5

Make fast blockchain payments using paymail.

Solution 6

A chatbot exclusively made to implement the above features and answer all questions regarding blockchain.

DEMO

Create Your
Chatblock Account

Luke Skywalker

luke@skywalkers.com

yoda-is-op

Sign Up

Login Instead

PAST TRANSACTIONS

| Txid: | Input Satoshis: | Output Satoshis: | Time: |
|--|-----------------|------------------|------------|
| 839b58b3f60c9199942069a408d17f76b82cc2d236a8efde928a1e0dd0a4aa04 | 0 | 0 | 1711835890 |
| 6be4f84070b34608f2bb131acd16384895d20673f732087a4197cfa32db6a60d | 0 | 0 | 1711834203 |
| d3d235c6e7a9da1f32a74d57a67eff90353e60926b94216ad245ecd31d60c821 | 0 | 0 | 1711834203 |

Sign Up which creates a wallet for you automatically

Easy UI to check transaction history

DEMO

The image displays two side-by-side screenshots of a web-based blockchain payment application. Both screenshots show a dark-themed interface with a blue sidebar on the left.

Screenshot 1: Pay by Paymail

- Left Sidebar:** Contains a user profile picture, a "change" button, and navigation links: "Logged In User", "Check Balance", "Chatbot", "Wallets", "Payments", and "Transactions".
- Middle Content:** A "Pay by Paymail" section with input fields for recipient email ("harshit.rai.verma@dev.neucron.io"), amount ("100"), and message ("share for the dinner"). Below these fields is a green success message: "Payment Successful. It will reflect in your account soon." followed by a "Pay" button.
- Bottom:** A "Logout" button.

Screenshot 2: Wallets

- Left Sidebar:** Same as Screenshot 1.
- Middle Content:** A "Wallets" section showing a list of wallets:
 - main:** Balance 360 Satoshi, Address ac2979da-d925-43ef-aa72-76f7cefe1bb4, Paymail: aakashjain245@dev.neucron.io
 - Lycanroc-wallet1.0:** Buttons for "Check Balance" and "Show Wallet ID", Paymail: 1925@dev.neucron.io
- Bottom:** Input fields for "Wallet Name" and "Create Wallet" button.

blockchain payments using paymail

Easily check wallet lists, wallet balance
and create new wallet

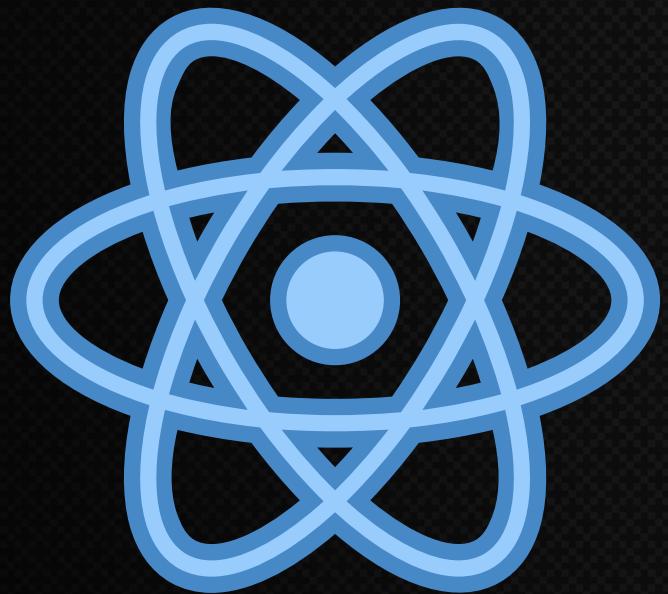
DEMO

The screenshot shows a web browser window with a dark theme. The address bar displays `localhost:5173/chatbot`. The main content area features a blue sidebar on the left with a user profile picture, the text "Logged In User", and a balance of "10615 Satoshi". Below this are buttons for "Chatbot", "Wallets", "Payments", and "Transactions". At the bottom of the sidebar is a "Logout" button. The main area contains a white card with a blue header that says "Hello, I'm ChatGPT! Ask me anything!". A "Hello" button is located below the header. The card contains text about blockchain basics and a message from ChatGPT. At the bottom is a message input field with a placeholder "Type message here" and a send icon.

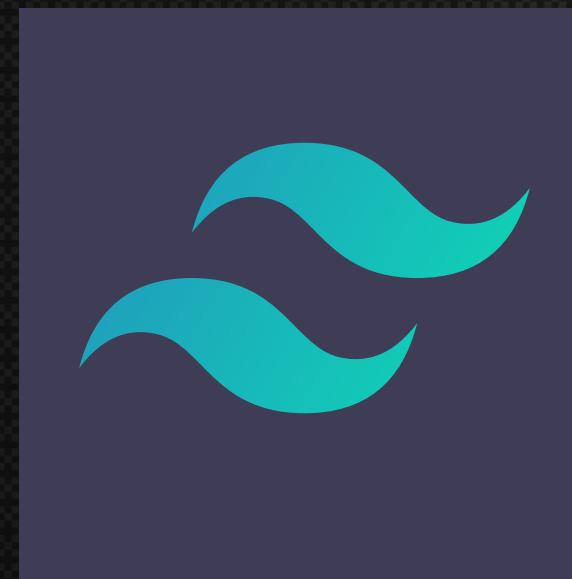
<https://chatblock-bay.vercel.app>

A chatbot exclusively made to implement the features like ‘send money’, ‘check my balance’, ‘transactions’ and answer all questions regarding blockchain.

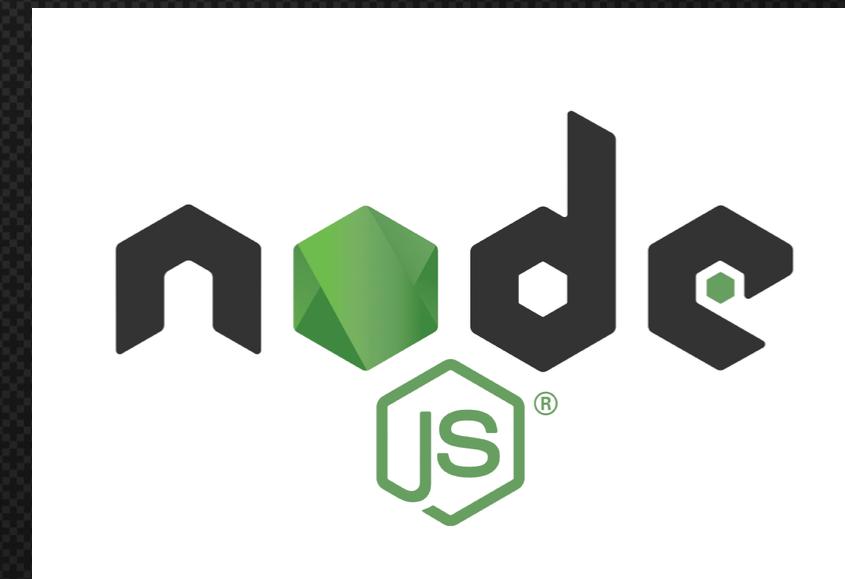
TECHNICAL ARCHITECTURE



Frontend UI



Styling



Backend Logic



Firebase for hosting
& database



Gemini API for chatbot

- * **Compromise NLP model** for language processing
- * **Neucron API** for blockchain interaction

IMPACT

Accessibility

Our user-friendly interface removes the complexity and intimidation often associated with blockchain wallets, making it accessible to a wider audience.

Innovation

The integration of a chatbot specifically designed to address blockchain-related queries enhances user experience and support, ensuring users can navigate and utilize the platform effectively.

UNIQUE SELLING PROPOSITION

Seamless Sign-Up

Automatic wallet creation upon sign-up streamlines the onboarding process, eliminating additional steps for users.

Neucron API Integration

Enables effortless creation of new blockchain wallets, enhancing user convenience and flexibility.

Wallet Management

Users can easily monitor their wallet balances, view transaction history, and manage their wallet list, enhancing transparency and control.

Dedicated Chatbot

An exclusive chatbot provides personalized assistance and guidance, catering to user queries and facilitating seamless interaction.

FUTURE ROADMAP

Integration of Langchain to enhance natural language understanding and provide more accurate and contextually relevant responses.



Implementation of multi-factor authentication (MFA) for better security.



Integration of advanced encryption techniques to safeguard sensitive user data and transaction information.



Research and implementation of scalability solutions such as sharding or layer 2 protocols



Exploration of interoperability protocols to facilitate seamless interaction between different blockchain networks.



Incorporation of smart contract functionality to enable automated and programmable transactions.



Introduction of decentralized identity solutions to enhance user privacy and control over personal data.



Expansion of customer support services to provide timely assistance and guidance to users.

