

Portofolio Interchain V2 /chain.co.id

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@2020

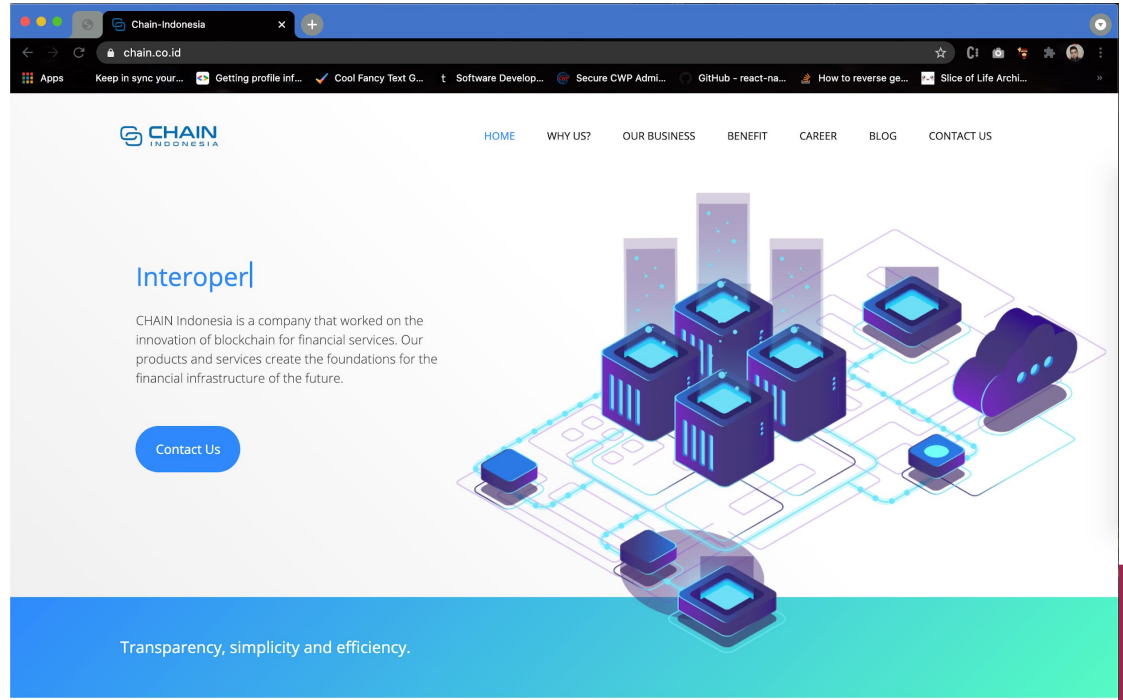
Landing Page

Programming Language :

- Golang, HTML, CSS

Description :

Website company profile for Interchain



Admin Panel & Backend API

Programming Language :

- PHP
- VueJs

Framework :

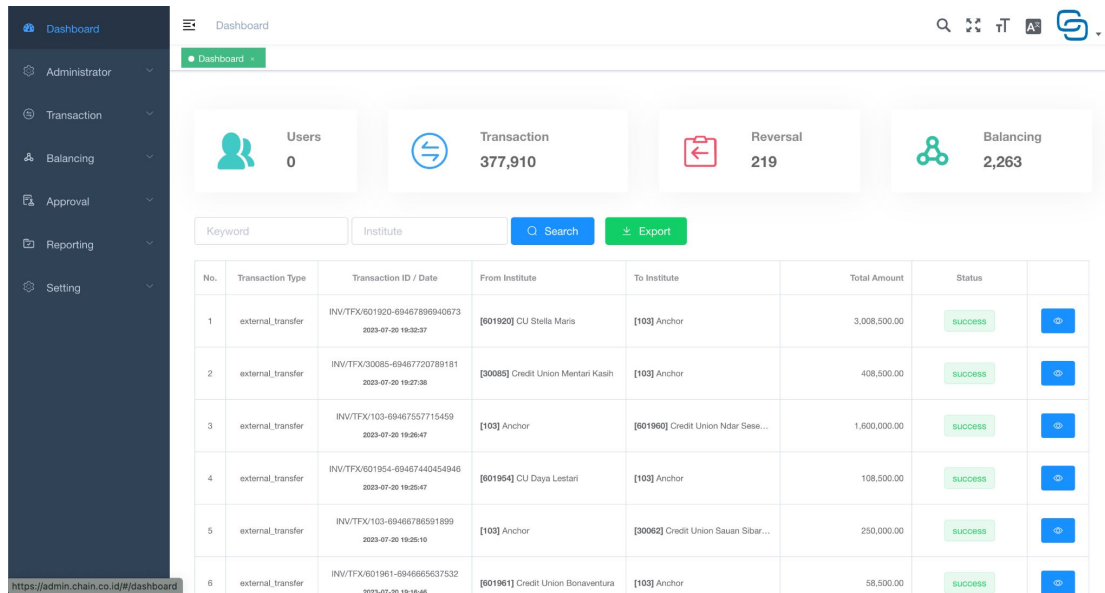
- Laravel (laravue.dev)
- VueJs

Database :

- PostgreSQL

Description :

- Admin Panel for CURD, Monitoring and Reporting Transaction
- Backend API for receive request from Vendor and forward to Blockchain API



The screenshot displays the Admin Panel Dashboard. On the left is a dark sidebar with a menu containing: Dashboard, Administrator, Transaction, Balancing, Approval, Reporting, and Setting. The main content area has a top navigation bar with a search icon, a hamburger menu, and a 'Dashboard' dropdown. Below the navigation bar are four summary cards: 'Users' (0), 'Transaction' (377,910), 'Reversal' (219), and 'Balancing' (2,263). A search and export section follows, with input fields for 'Keyword' and 'Institute', and buttons for 'Search' and 'Export'. The bottom section is a table with 6 rows of transaction data.

No.	Transaction Type	Transaction ID / Date	From Institute	To Institute	Total Amount	Status	
1	external_transfer	INV/TFX/601920-69467896940673 2023-07-20 19:32:37	[601920] CU Stella Maris	[103] Anchor	3,008,500.00	SUCCESS	
2	external_transfer	INV/TFX/30085-69467720789181 2023-07-20 19:27:38	[30085] Credit Union Mentari Kasih	[103] Anchor	408,500.00	SUCCESS	
3	external_transfer	INV/TFX/103-69467557715459 2023-07-20 19:26:47	[103] Anchor	[601960] Credit Union Ndar Sese...	1,600,000.00	SUCCESS	
4	external_transfer	INV/TFX/601954-69467440454946 2023-07-20 19:25:47	[601954] CU Daya Lestari	[103] Anchor	108,500.00	SUCCESS	
5	external_transfer	INV/TFX/103-6946786591899 2023-07-20 19:25:10	[103] Anchor	[30062] Credit Union Sauan Sibar...	250,000.00	SUCCESS	
6	external_transfer	INV/TFX/601961-6946665637532 2023-07-20 19:18:48	[601961] Credit Union Bonaventura	[103] Anchor	58,500.00	SUCCESS	

At the bottom left of the sidebar, the URL `https://admin.chain.co.id/#/dashboard` is visible.

Admin Panel & Backend API

Description :

- Receive transaction status change from Blockchain API
- Use Websocket (socket.io) for auto refresh tables
- Module Deposit, TopUp and Redeem for blockchain token
- Upgrade system from V1

Dashboard / Reporting / Report Transaction

Dashboard × Report Transaction

Keyword Institute Transaction Status 2023-07-13 19:35:09 To 2023-07-20 19:35:09 Search Export

TRX OUT BY DATE : 0

ALL TRX IN BY DATE : 0

No.	Transaction ID / Date	Transaction Type	Trx	From Institute	To Institute	Amount	Fee	Total	Status
1	INV/TFX/30052-686071268257 2023-07-13 19:35:15	external_transfer		[30052] Credit Union Sauan Sibarrang 300620001533	[103] Anchor 8460247655	370,000.00	8,500.00	378,500.00	SUCCESS
2	INV/TFX/30054-6860721637... 2023-07-13 19:35:37	external_transfer		[30054] Credit Union Mekar Kasih 3006401000960	[103] Anchor 30570100055338	100,000.00	8,500.00	108,500.00	SUCCESS
3	INV/TFX/601954-686073806... 2023-07-13 19:35:55	external_transfer		[601954] CU Daya Lestari 303911700345	[103] Anchor 80030103031533	3,900,000.00	8,500.00	3,908,500.00	SUCCESS
4	INV/TFX/30054-6860708681... 2023-07-13 19:41:17	internal_transfer		[30054] Credit Union Mekar Kasih 3006401000960	[30055] Credit Union Mentari Kasih 3006300000985	200,000.00	300.00	200,300.00	SUCCESS
5	INV/TFX/103-68607851906338 2023-07-13 19:44:00	external_transfer		[103] Anchor 0010000038	[30062] Credit Union Sauan Sibarrang 3006201000090	3,000,000.00	2,000.00	3,002,000.00	SUCCESS
6	INV/TFX/103-68608485525808 2023-07-13 19:44:56	external_transfer		[103] Anchor 0010000038	[30062] Credit Union Sauan Sibarrang 3006201000299	98,000.00	2,000.00	100,000.00	SUCCESS

Blockchain API

Programming Language :

- Python

Framework :

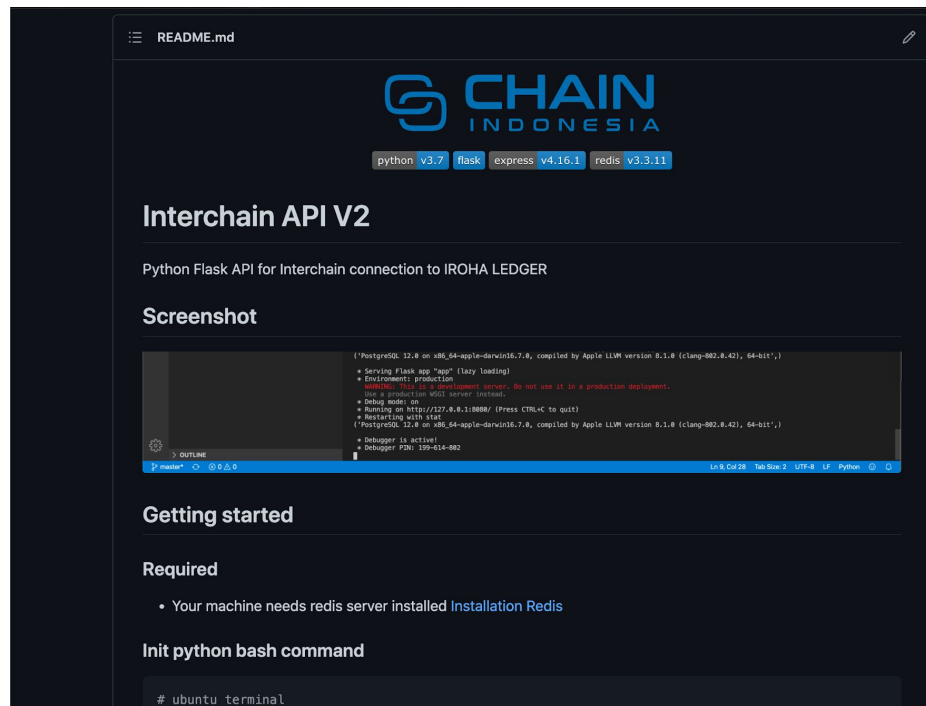
- Flask (Python web framework)

With :

- Redis
- Socket.IO
- Psycpg2

Description :

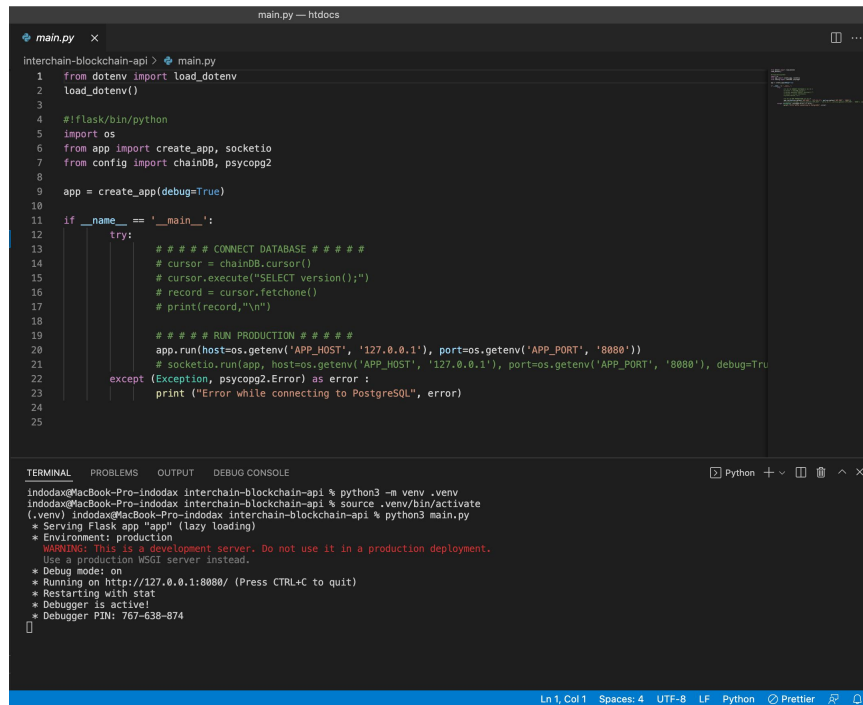
- Receive request transaction from Backend and send to Iroha Ledger
- Getting realtime transaction status from Iroha Ledger



Blockchain API

Description :

- Send Transaction status to Backend with API and broadcast notification to redis -> socket.io
- Available create account for transaction in Iroha Ledger



```
main.py — htdocs
main.py x
interchain-blockchain-api > main.py
1 from dotenv import load_dotenv
2 load_dotenv()
3
4 #flask/bin/python
5 import os
6 from app import create_app, socketio
7 from config import chainDB, pycpg2
8
9 app = create_app(debug=True)
10
11 if __name__ == '__main__':
12     try:
13         ##### CONNECT DATABASE #####
14         # cursor = chainDB.cursor()
15         # cursor.execute("SELECT version();")
16         # record = cursor.fetchone()
17         # print(record, "\n")
18
19         ##### RUN PRODUCTION #####
20         app.run(host=os.getenv('APP_HOST', '127.0.0.1'), port=os.getenv('APP_PORT', '8080'))
21         # socketio.run(app, host=os.getenv('APP_HOST', '127.0.0.1'), port=os.getenv('APP_PORT', '8080'), debug=True)
22     except (Exception, pycpg2.Error) as error :
23         print ("Error while connecting to PostgreSQL", error)
24
25
```

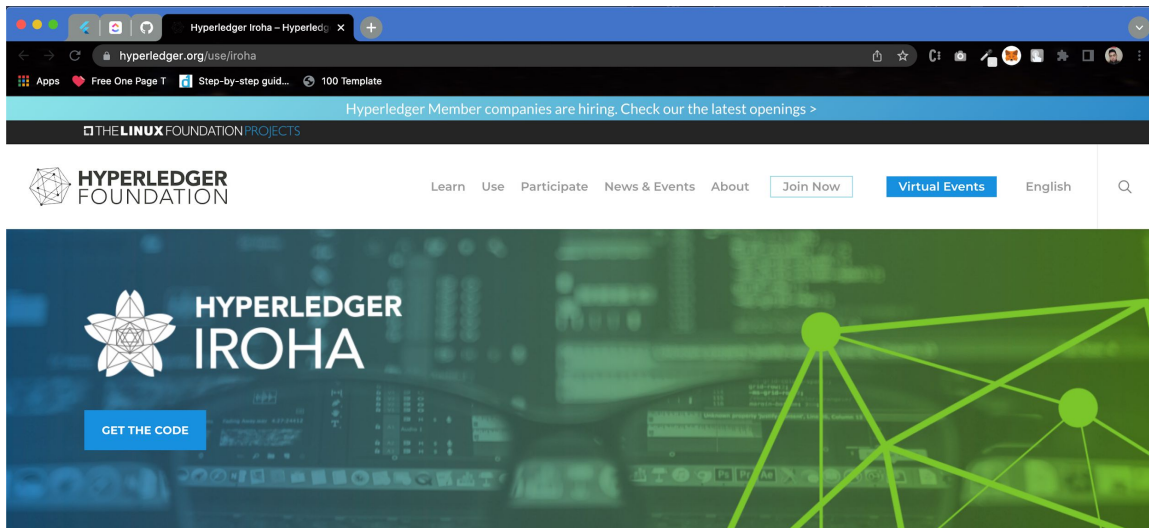
TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

```
indodax@MacBook-Pro-indodax interchain-blockchain-api % python3 -m venv .venv
indodax@MacBook-Pro-indodax interchain-blockchain-api % source .venv/bin/activate
(.venv) indodax@MacBook-Pro-indodax interchain-blockchain-api % python3 main.py
* Serving flask app "app" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:8080/ (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active
* Debugger PIN: 767-638-874
```

Ln 1, Col 1 Spaces: 4 UTF-8 LF Python Prettier

Hyperledger Iroha

Hyperledger Iroha is a general purpose permissioned blockchain system that can be used to manage digital assets, identity, and serialized data. This can be useful for applications such as interbank settlement, central bank digital currencies, payment systems, national IDs, and logistics, among others.



Type: Distributed ledger software

Hyperledger Iroha is designed to be simple and easy to incorporate into infrastructural or IoT projects requiring distributed ledger technology. Hyperledger Iroha features a simple construction, modular, domain-driven C++ design, emphasis on client application development and a new, crash fault tolerant consensus algorithm, called YAC.

