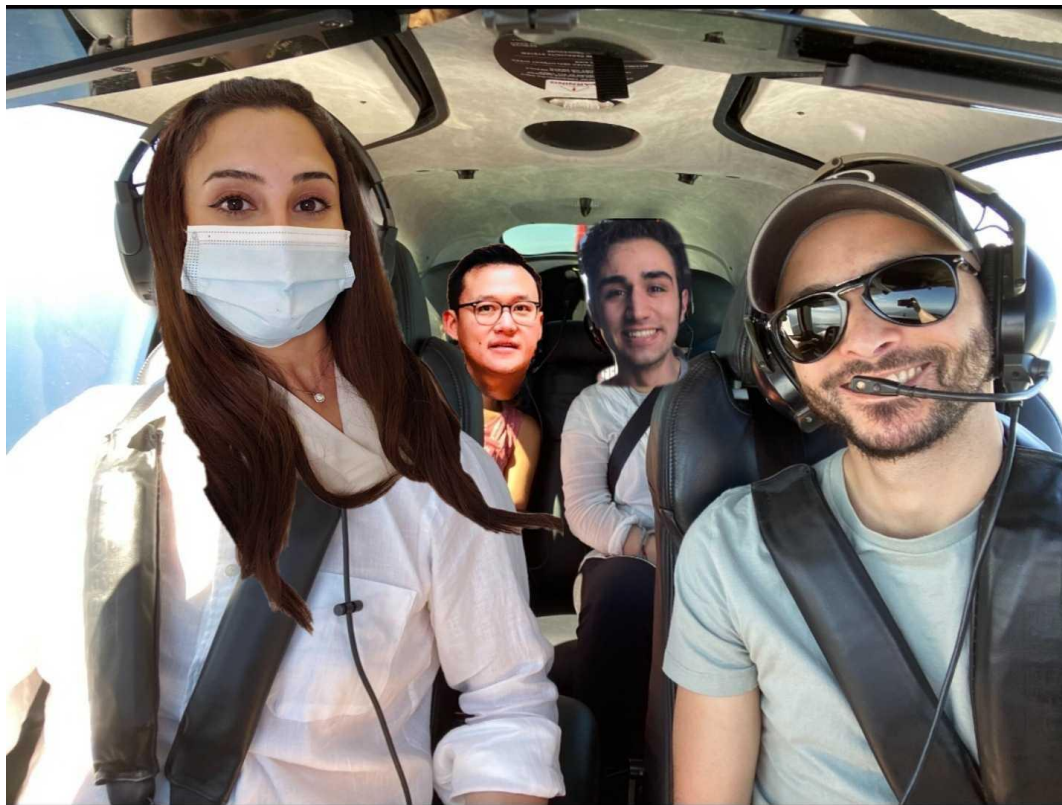


jetChain

Toufic, Ricky, Shelly, & Ian

The team



Agenda - WIP

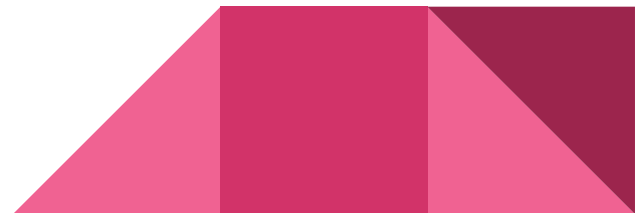
Objective & Motivation

Process

Contract Set-Up

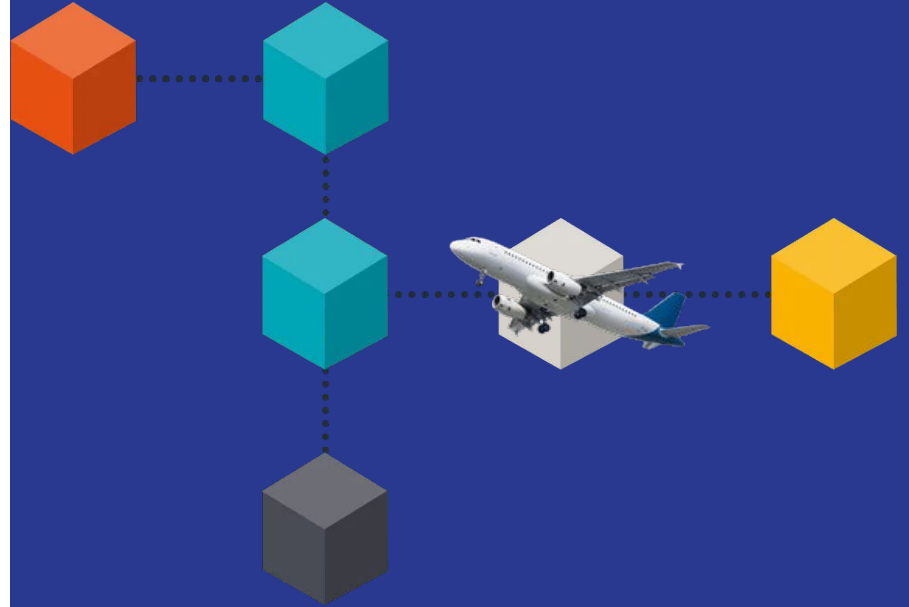
How the Contract Works

Conclusion



Objective & Motivation

Develop jetChain, the premier private charter reservation system, the first of its kind built on blockchain contracts.



Why Smart Contract?

Smart Contracts are Awesome!

Autonomy

You're the one making the agreement; there's no need to rely on a broker or lawyer

1



Trust

Your documents are encrypted on a shared ledger

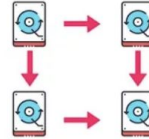
2



Backup

On the blockchain, Your documents are duplicated many times over

3



Savings

Smart contracts save you money since they knock out the presence of an intermediary

4

Accuracy

Smart contracts are not only faster and cheaper but also avoid the errors that come from manually filling out heaps of forms.

5



Our smart contract fulfills the following criteria:

- It must have an open-source code
- The code is stored in a blockchain
- The code can't be altered after it's deployed
- The execution is automatic
- The code and execution results are visible in a decentralized blockchain
- The execution results are irreversible

Advantages of Blockchain

Open Marketplace

Security

Transparency

Anonymity

Scalability

Enable efficient data collection for
analysis

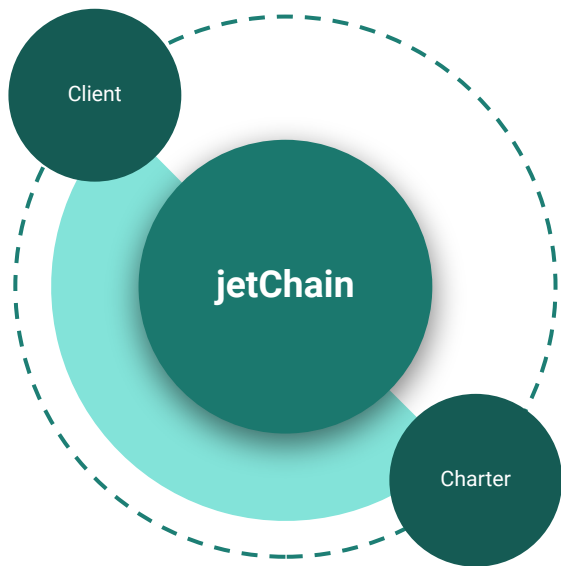


Process

An open marketplace for private jet charters and clients to list and purchase bespoke flights



How jetChain Works

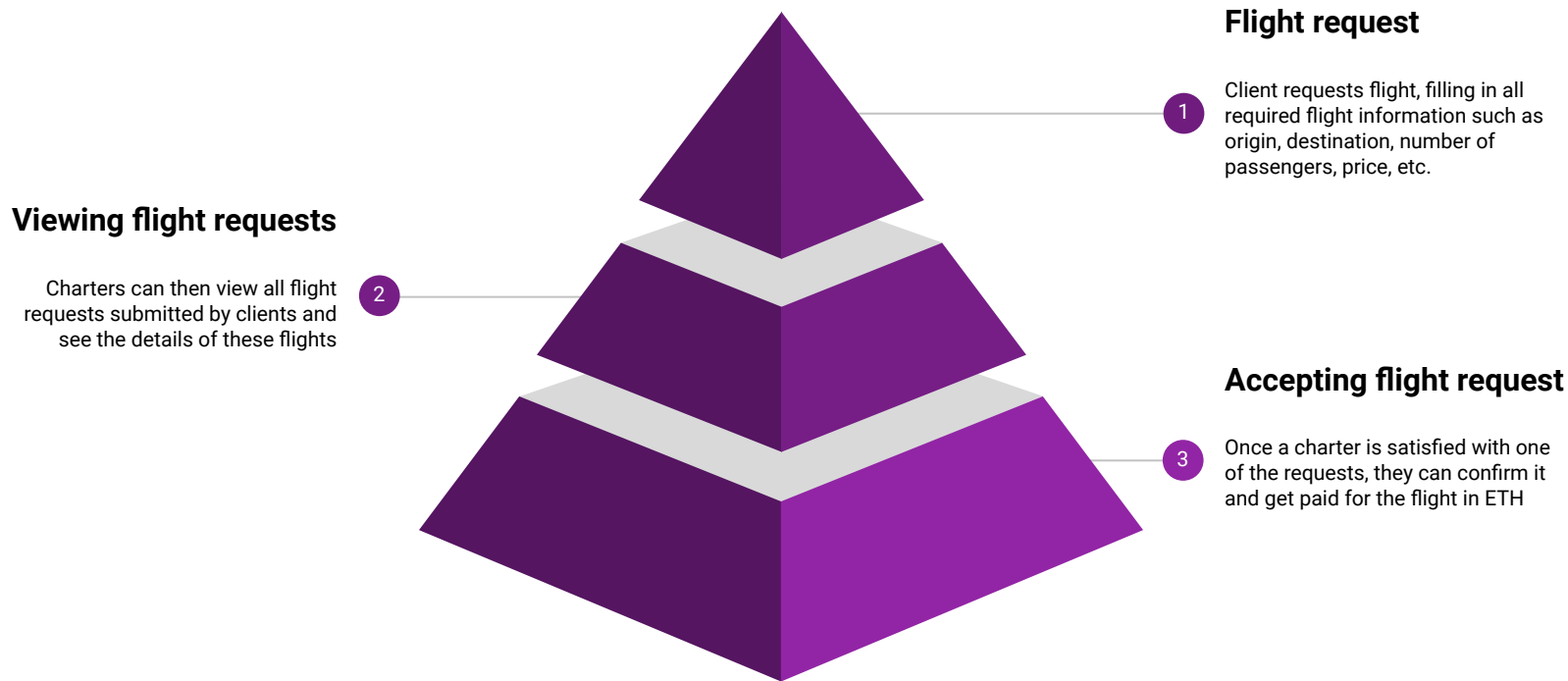


jetChain acts as a marketplace, connecting private plane charters to clients by offering two options for booking flights.

1. Clients requesting flights from an origin to a destination at a price they set
2. Charters offering empty legs or flights of their own at a fixed price or through an auction

jetChain takes a small fee for each confirmed request or offer

How jetChain Works - Flight Requests



How jetChain Works - Flight Offers

Fixed price flight offer

Charter offers flight with a fixed price, including details such as origin, destination and number of passengers

Viewing flight offers

Clients view available flight offers with all the included details

Accepting flight offer

Clients choose a flight offer and pays for the flight in ETH

Auction flight offer

Charter offers flight through an auction, and includes details such as origin, destination and number of passengers

Viewing flight offers

Client view available flight offers with all the included details

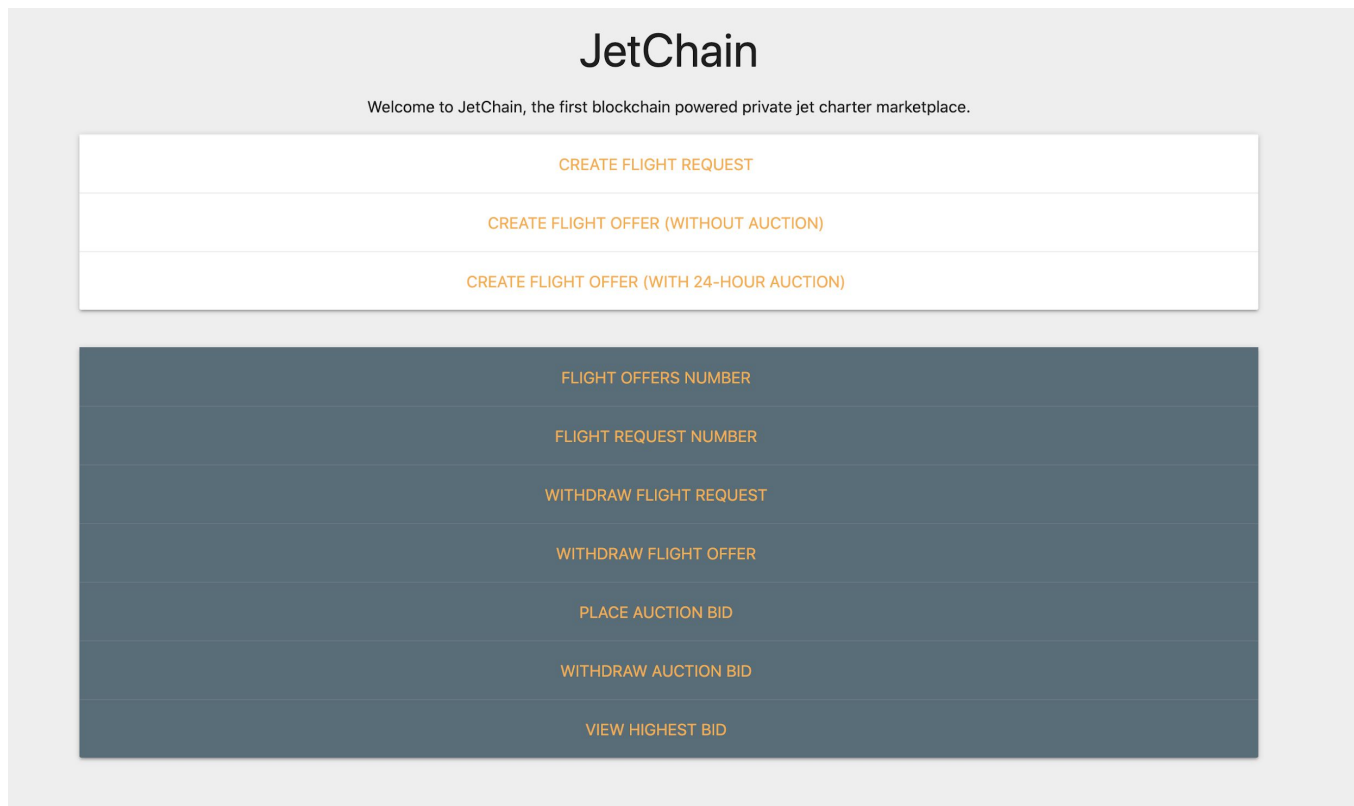
Bidding on flight offer

Client bids on flight offer, and the highest bidder wins the flight

Remix Demo

Contract address (kovan testnet):
0x635875E4f24A3976C6F763036d25DDaA28F874aa

Dapp User Interface



Conclusion

jetChain marketplace/platform is very promising to be successful in the real private jet market, especially in the current world where the demand for private flights are increasing post Covid-19



Post Mortem

Should we have more time, we would like to:

- Upgrade the design of UI/UX that clients and charters will use with potential expansion to mobile application
- Implement the smart code using ERC 1155 that allow us to manage multiple token types (fungible/non-fungible) and lower gas fees
- Deploy this smart contract for real users to test and refine the functionality/security





Thank You for Flying jetChain