STELLAR**RENT**
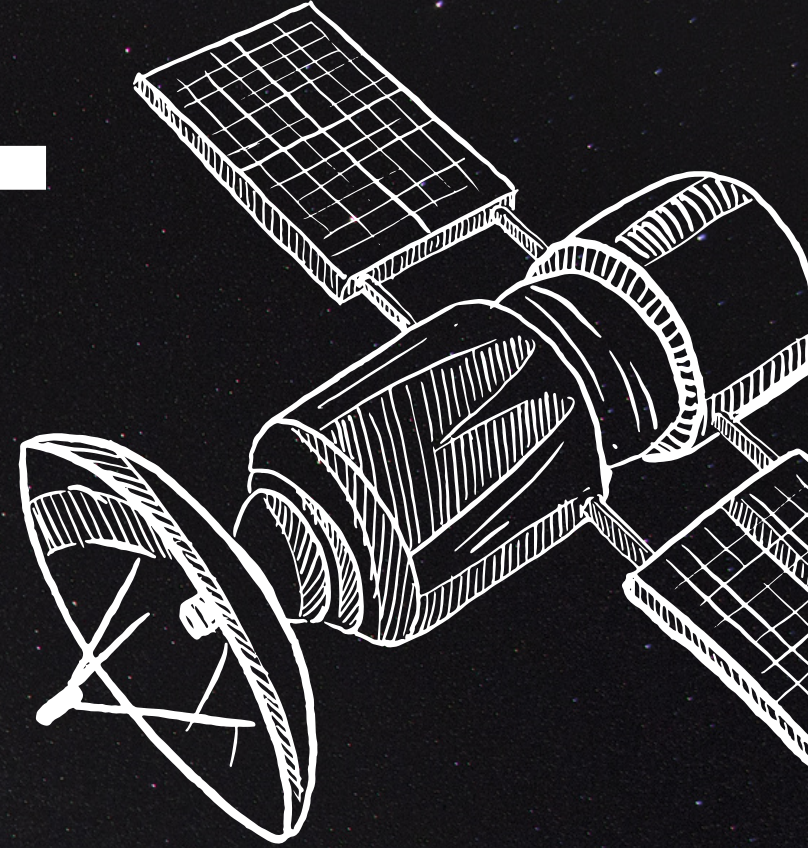
MOTIVATION

Satellite is a future promising industry. it takes an import role in communication, scientific research, weather monitoring, and so on. However, purchasing and launching a satellite can be expensive. Therefore, we came up with the idea of sharing unused satellite.

Contribution

A satellite rental system with identification and pay system

- Idetification: use TPM to sign in the system, TPM prevent other to steal your private key to use your account
- IOTA pay system: IOTA provide a decentralized environment, which prevent the unfairness for renting, everybody can access the satellite.

TECHNIQUE

- React.js ⚛️ : Frontend
- MongoDB. 🍃 : Database
- Express. 🆂 : Server
- IOTA. ⚙️ : paying system
- TPM. 🔒 : identity security

WORK FLOW

REGISTER & SIGN
When register & sign, we use TPM to make sure the security of users.

LEND
You can lend your own satellite.

BOOK
You can search a satellite that meet your need and then book it.

PAY
We use IOTA, after paying you can check your order state on website.

START → REGISTER
REGISTER → TPM
TPM → SIGN IN
START → SIGN IN
SIGN IN → TPM
TPM → Main PAGE
Main PAGE → LEND
Main PAGE → BOOK
LEND → MONGO DB
BOOK → MONGO DB
BOOK → ORDER
ORDER → IOTA
IOTA → FINISH