COMP6452 - Group 23
Milk chain
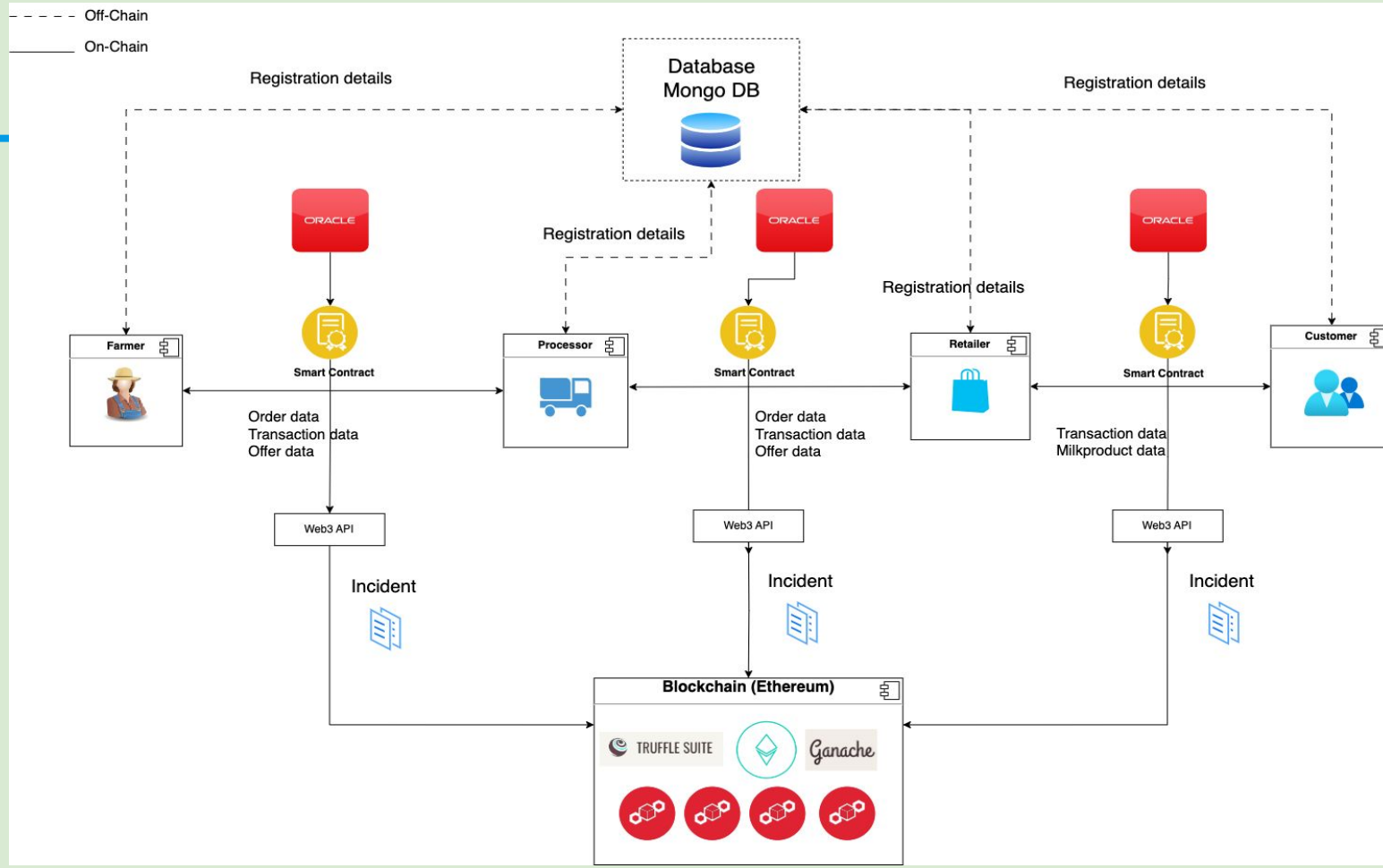# Presentation 2

Boyang Li (Eric)	**z5191532**	**-**	**Software architecture design**
Zhiyang Lin (Kilam)	**z5142124**	**-**	**On-chain & Off-chain component interaction**
Kaiying Wu (Kathy)	**z5251751**	**-**	**Code walk through**
Yunpeng Zhuo (Tony)	**z5221263**	**-**	**Smart contracts development**

Presentation 1 System Architecture Design -

① Stakeholders register their details using our API

② Then Processor will handle the post-production of milk and packaging and shipping

③ Retailer then sells milk

④ Finally customer consumes milk.

⑤ Real-time data monitored by IoT devices, these data are sent to SC via Oracle.

⑥ Mutable data and big data are managed through API, Oracle can read data from the database and send it to SC.

⑦ Stakeholders report the incident through the API, and Oracle passes the Incident information to the smart contract.
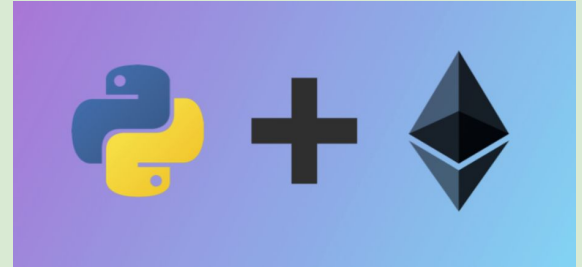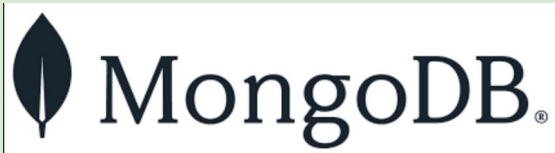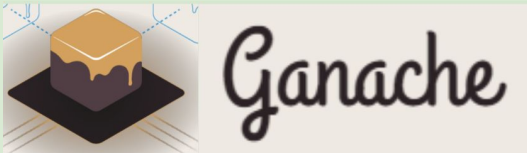
Final Design

Implementation details

Blockchain platform: Ethereum
Off-chain components: MongoDB, Oracle
Tools used:

Demo

Code Walkthrough

Thank you.

Q & A ?