

Team Hotpot (Beef Supply Chain)

- ❖ Well Son Tan (z5183987)
- ❖ Wei Ze Lim (z5225718)
- ❖ Zisen Guan (z5134749)
- ❖ Shuyu Zong (z5092254)

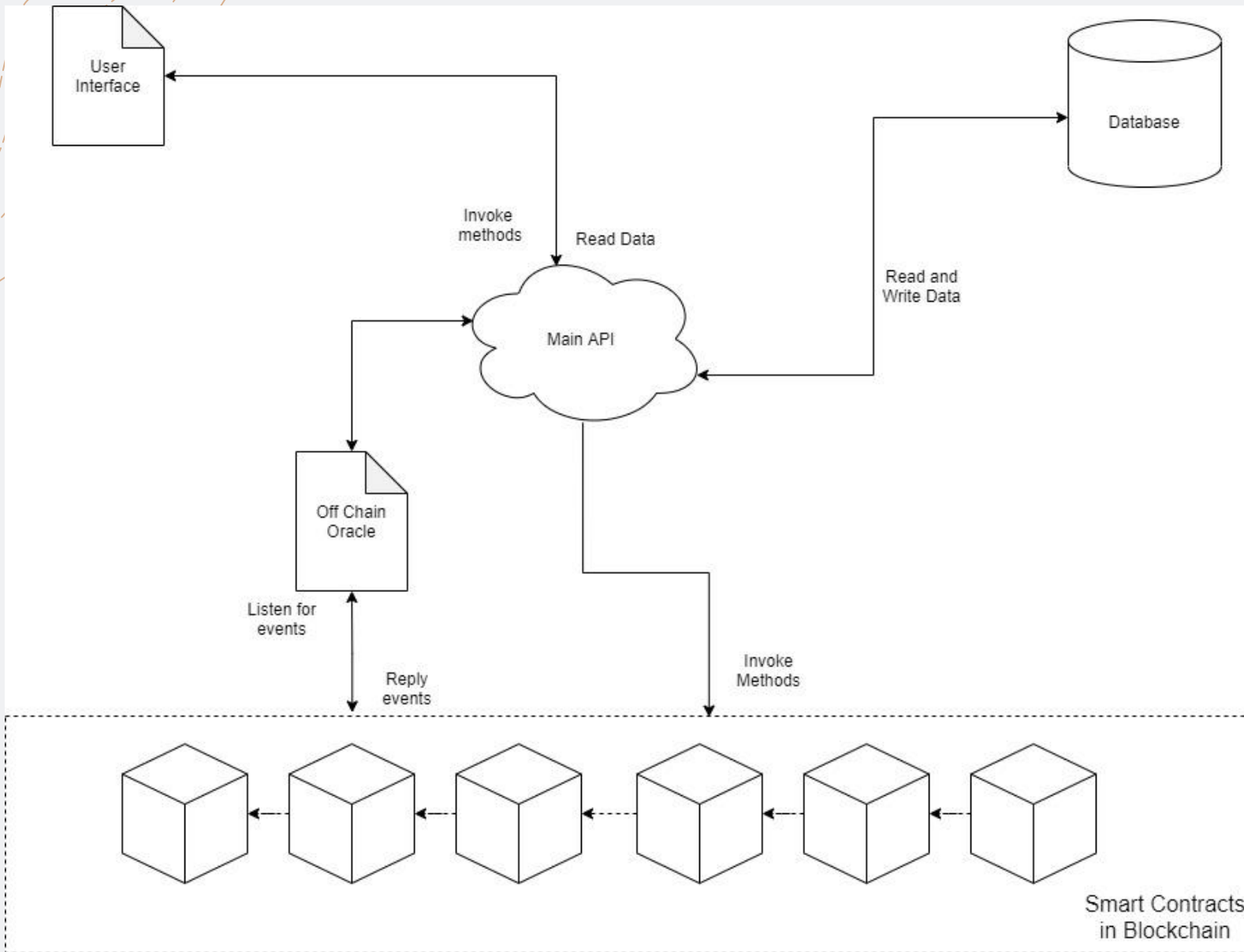
Recap: Background and problem

Transparency - It is difficult for consumers to verify authenticity of beef products, transparency of a product's supply chain can be improved using blockchain.

Efficiency - Blockchain can better connect different participants together, accelerate the exchange of information between participants and avoid like food waste or inventory shortage in production links, thus improving the production efficiency of the supply chain.

Integrity - Blockchain can provide high levels of data integrity, which can prevent food fraud, such as counterfeit beef.

Finalized architecture

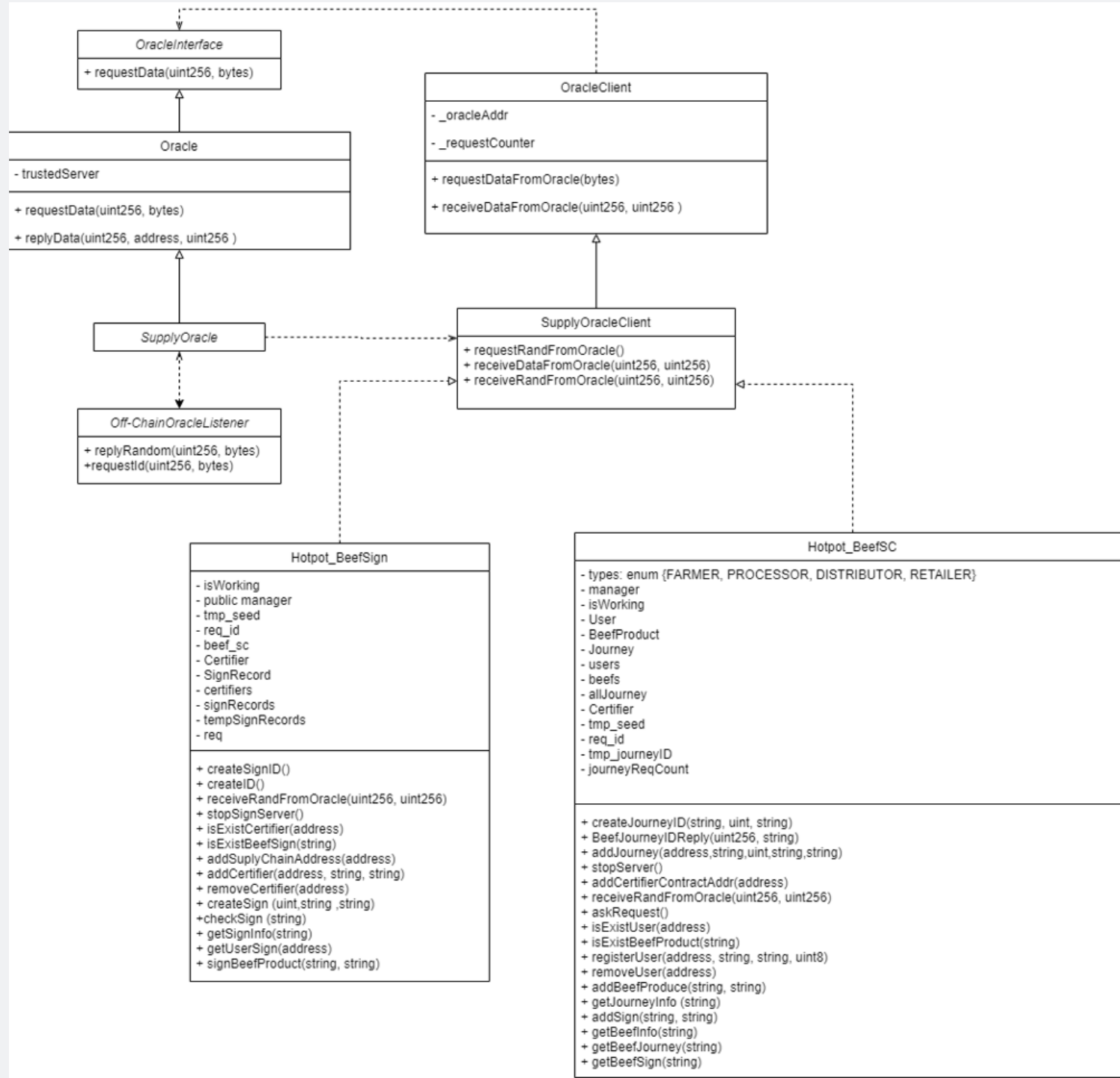


Blockchain platform - Ethereum

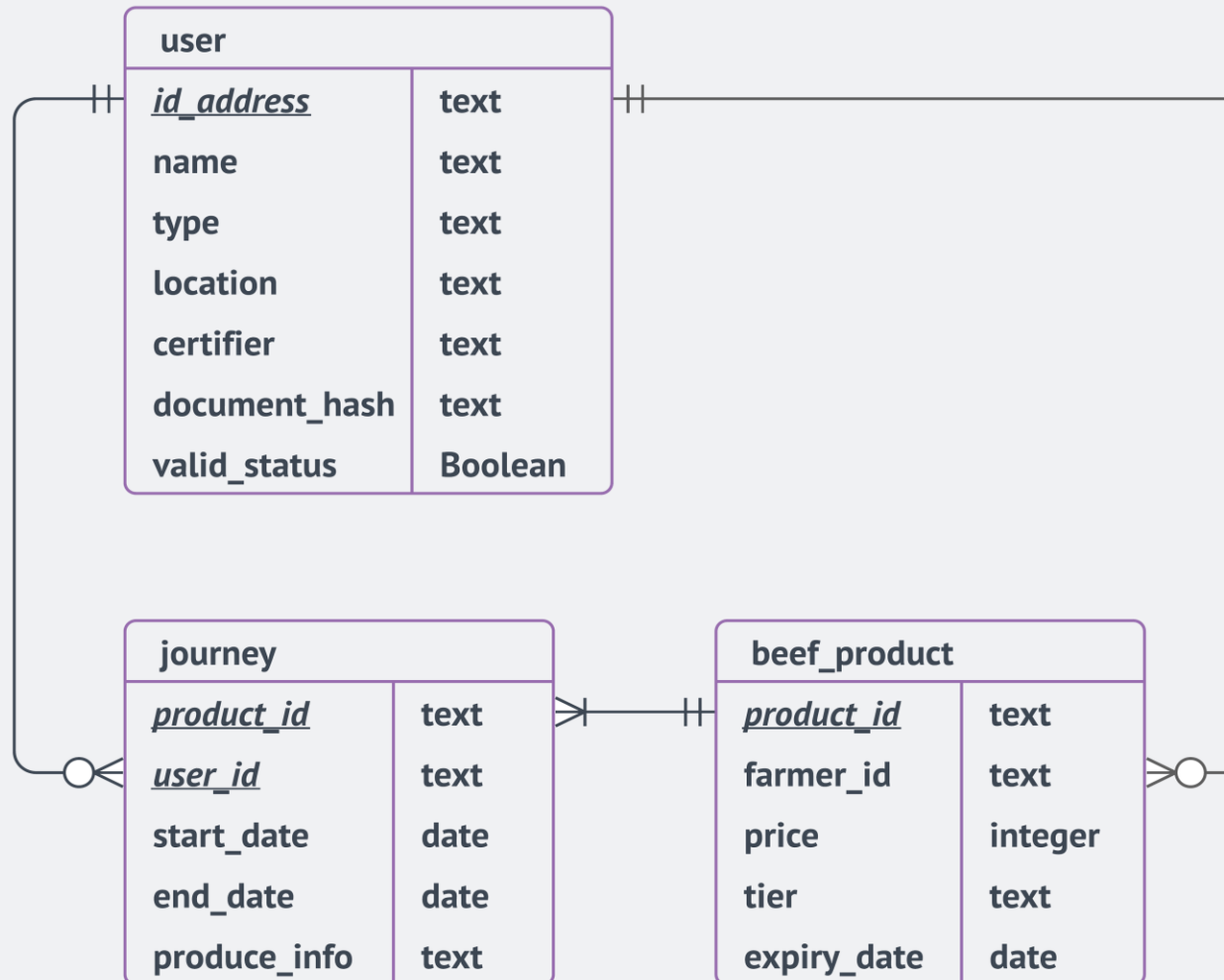
Database - Sqlite3 (Knex & Express(API))

Backend - Node JS (Web3)

Implementation details: Smart Contract Design



Implementation details: Database Design



The background is a light gray color. It features decorative elements: a white semi-circle in the top-left corner, a white semi-circle in the bottom-right corner, and several wavy lines. Some of these lines are dashed in a light brown color, while others are solid in a dark olive green color. The lines flow from the left side towards the right, creating a sense of movement.

Code Walkthrough & Demo