



# Software Development: LandChain

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Team #2084-3



# Problem / Rationale

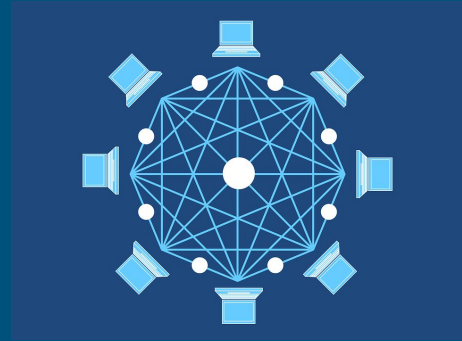
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Issue: Developing countries lack the tools to provide citizens with methods to record asset ownership, or corrupt entities may take advantage of existing, temporary asset ownership records.



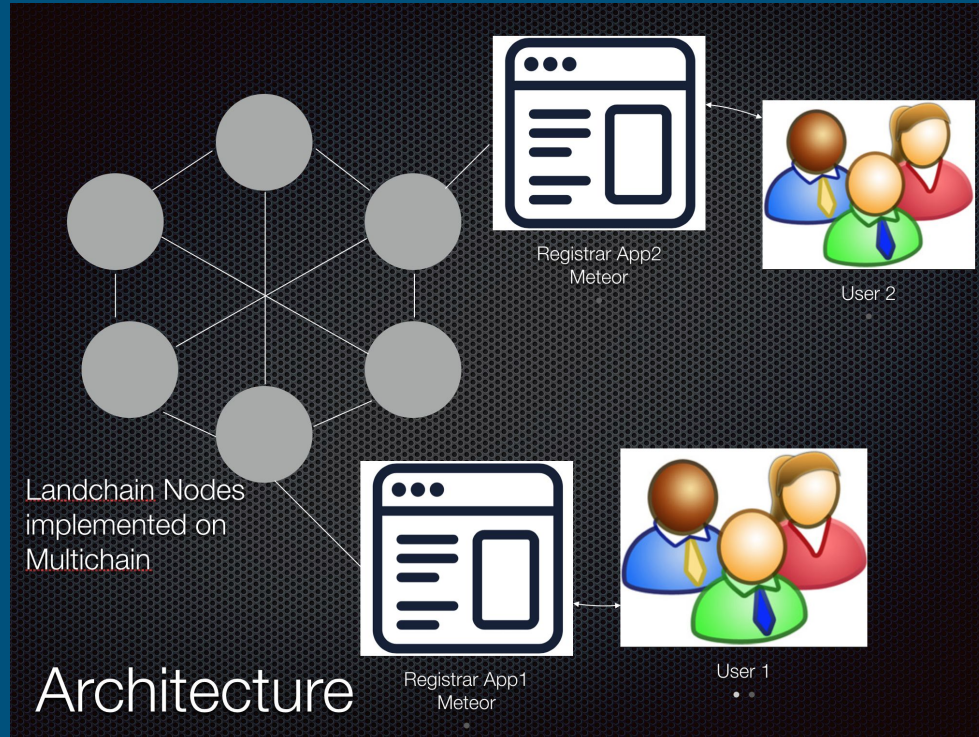
# Blockchain

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- Database with three key aspects
  - Immutable: history of asset ownership cannot be changed after the fact
  - Replicated: Shared database that all registrars and users have access and visibility to
  - Final: Once a transaction is complete it is final - any change is another transaction
- Secure: Permissioned and Immutable
  - Due to cryptographic hash functionality, a block cannot be modified once created & accepted.
  - Only permissioned users and nodes can perform certain tasks on the blockchain
- Decentralized
  - Each record of transaction and ownership is stored across all nodes.

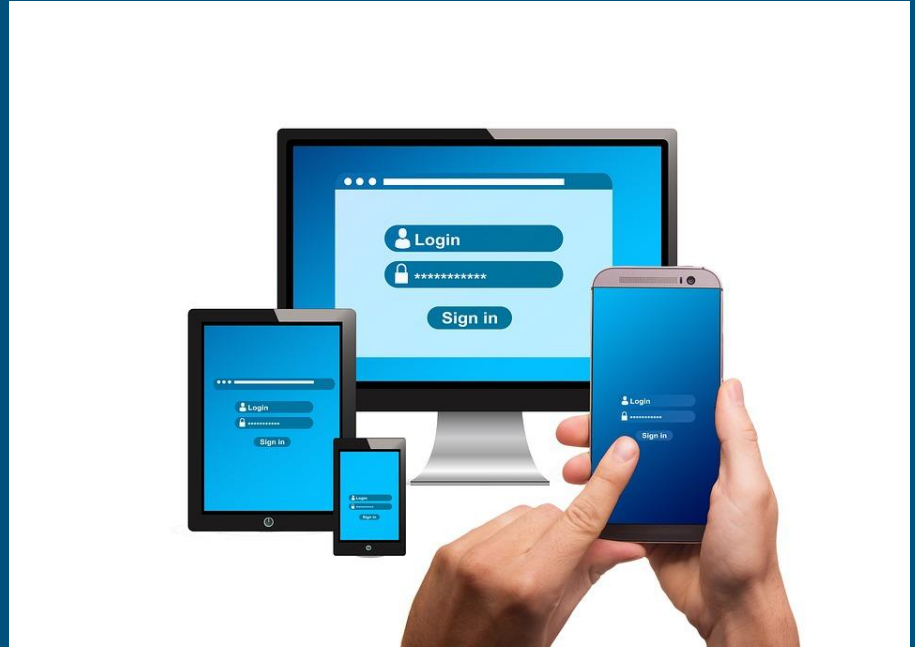
# Blockchain and App Architecture Diagram



# LandChain Use Cases

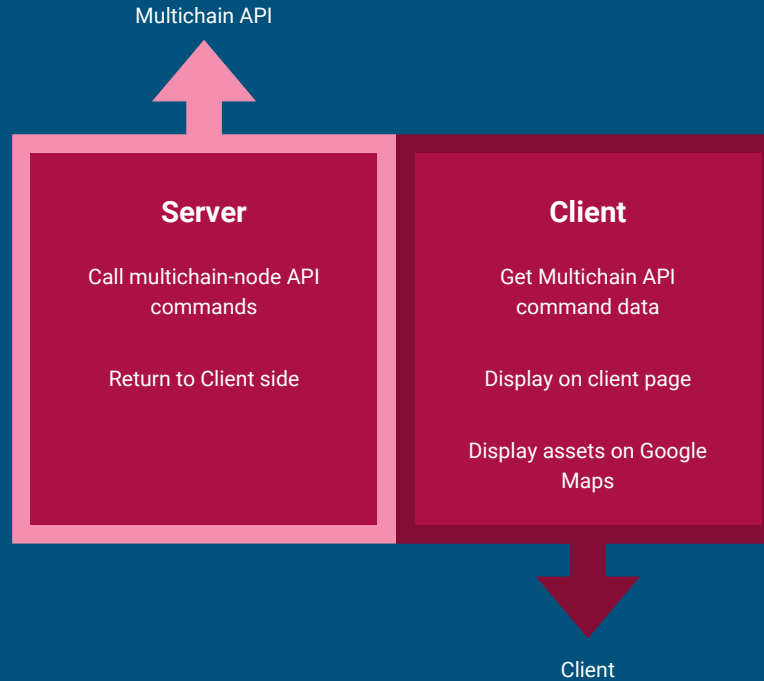
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- 5 use cases
  - Connect to the blockchain
  - Register an asset
  - List all of a user's assets
  - Transfer assets
  - Display asset on a map
    - Google Maps API



# App Design

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Our app is deployed in the cloud and available at: <http://68.183.120.148:3000>