

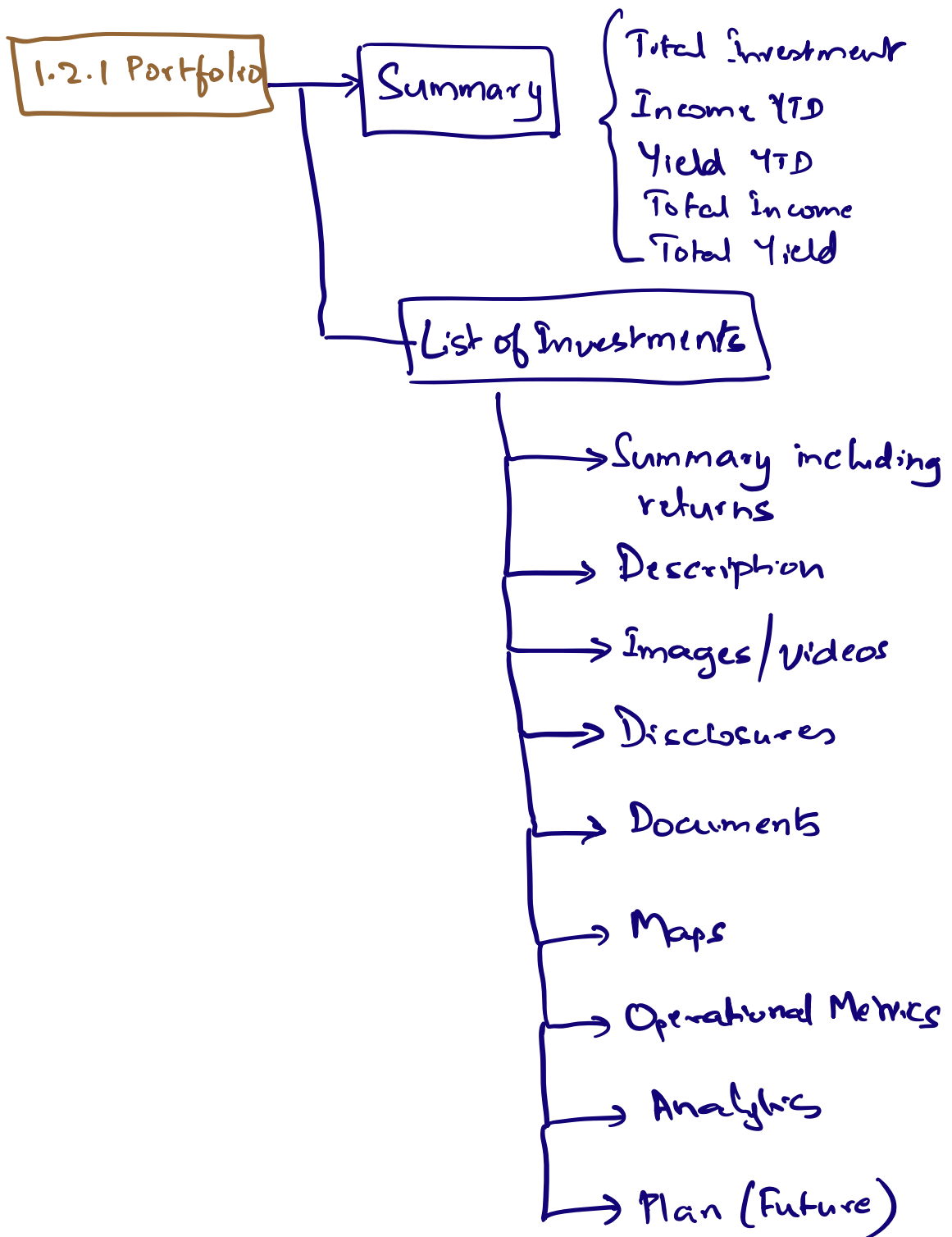
User roles

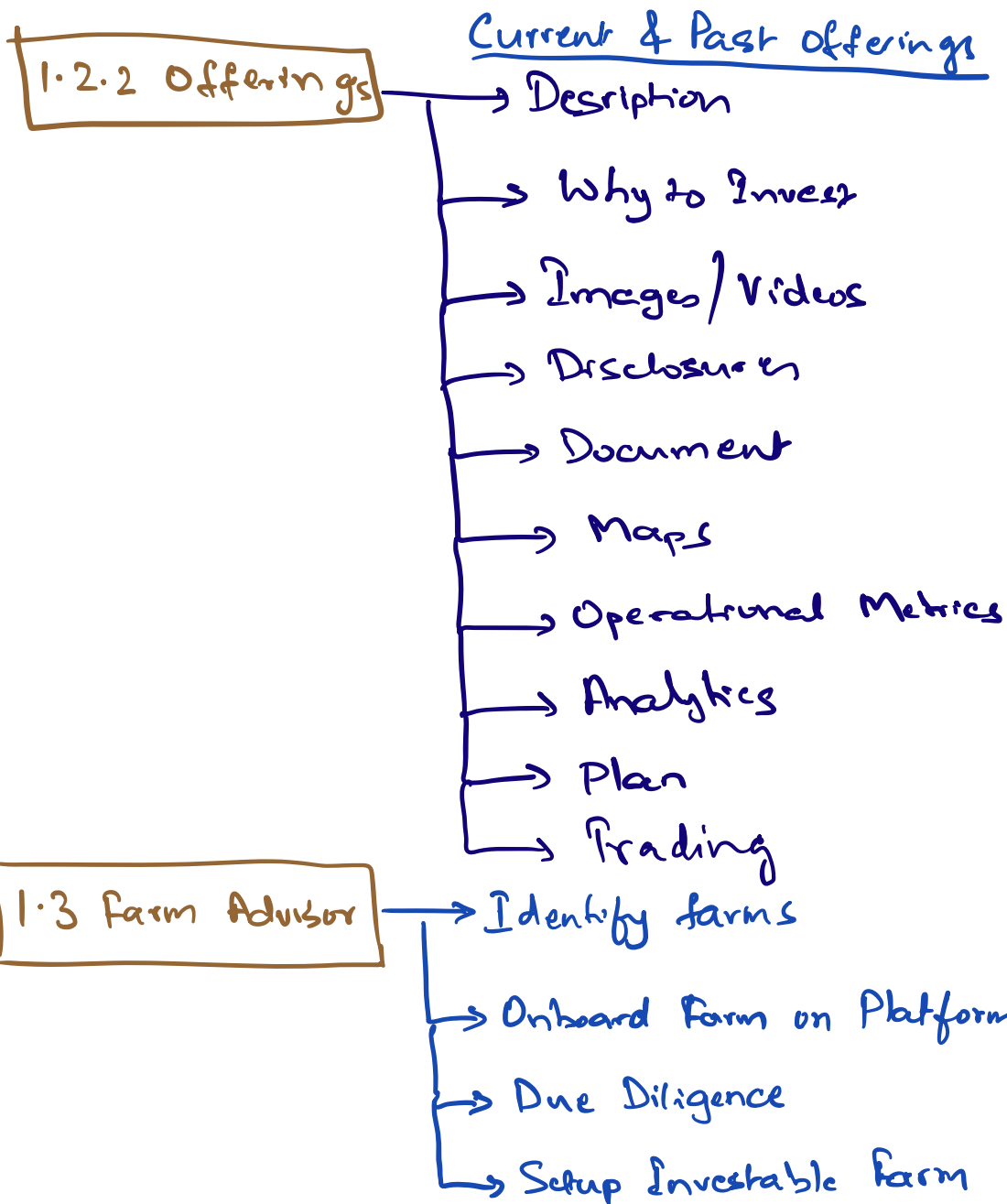
- Administrator
- Investor
- Farm Advisor
- Farm Manager
- Analyst

1.2 Investor

Landing Page

- Portfolio
- Offerings
- Resources
- About
- Contact
- Chat





1.4 farm Manager

1.5 Analyser

DESIGN CONSIDERATIONS

Authentication/Authorization

- Integrate with TP Auth/Authorization Service
- MFA
- Signup/login

Data Access

- Most of the Data access is hierarchical
eg. users → portfolios → farms ...
- Very little complex data access, if any, like complex joins
- Most of the data is either text, images, videos, documents
- data size (no. of records) will not be significant (not in millions)
- Flexible data model
- Support Versioning

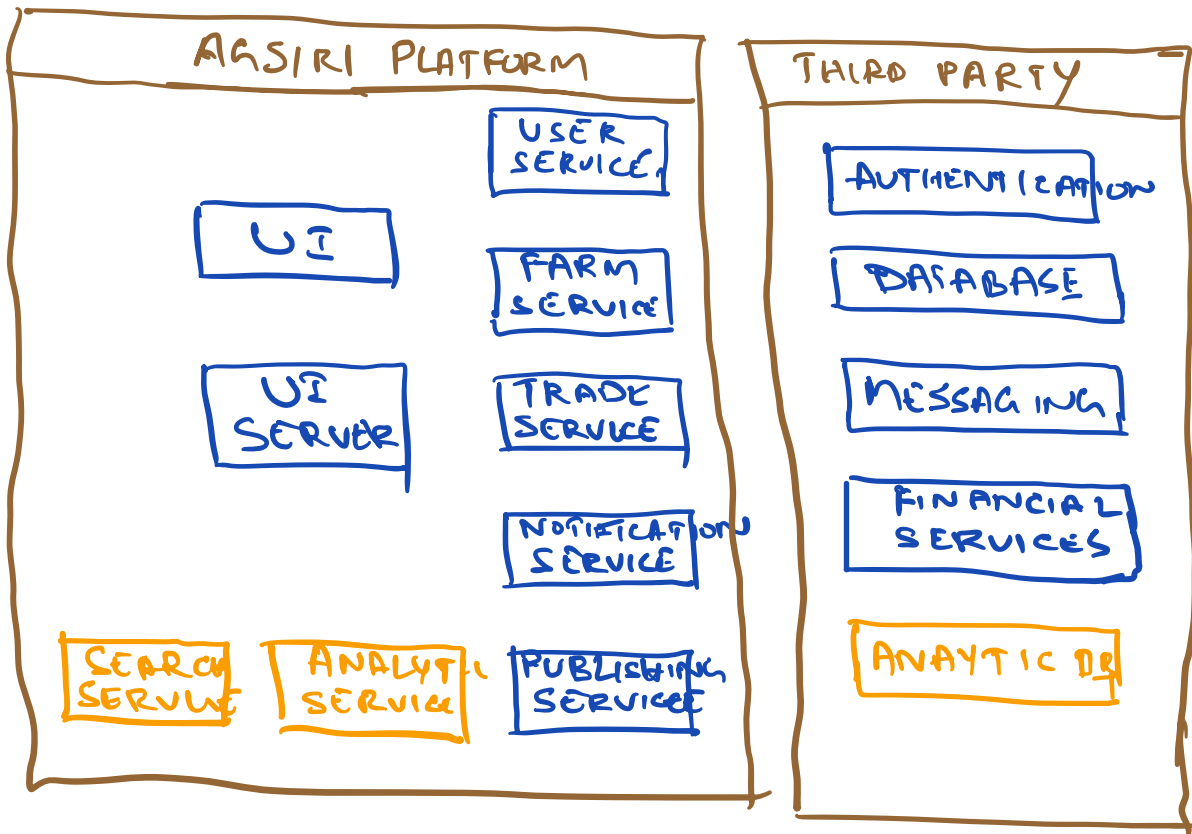
DATABASE RECOMMENDATION

- Based on the above data access patterns, a non SQL database (Document db, mongodb...) would be a better fit for this
- Data for any analytics required will be a small subset of the complete data. This data can be replicated to an analytics db for analytics

Platform and language

- Java environment may be too complex for this
- Can we use python / Rust / Go ??
Need to evaluate

ARCHITECTURE



● RELEASE 1

● RELEASE 2

USER SERVICE

- Manage users/roles
- Signup/login
- Multi Factor Authentication
- Profile Management
- Investor
 - Investor Type (Individual....)
 - Source of funds
- Multiple accounts

FARM SERVICE

- FARM onboarding
- Farm Life cycle Management
- Manage offerings - Shares, pricing...
- Farm documentation
- Manage operational metrics

TRADE SERVICE

- Buy shares of offerings
- Portfolio management
- Sell shares from portfolio (cooling Period)
- Bidding (later)
- Cash Flow management
(this could be a Separate Svc)

Publishing Service

- Create content for Campaigns, newsletters etc
- Publish Campaign, newsletters etc
 - Real time
 - Periodic
- Publish into messaging Service

Notification Service

- Manage user notification Subscriptions
- Send notifications through multiple channels based on Subscriptions
 - email, messages, VI....
- Notifications can be
 - Campaigns
 - newsletters
 - Prompt for profile completion
 - changes to data
 - for eg. new farm data is uploaded