```
┌─────────────────────────────────────┐         ┌─────────────────────────────────────┐
│          User Portal                 │         │          Admin Portal                │
│    [Frontend Web Application]        │         │    [Frontend Web Application]         │
│                                      │         │                                      │
│ Make transactions, get balance,      │         │ Manage users, compliance, audit,     │
│ get reports                          │         │ reports                              │
└─────────────────────────────────────┘         └─────────────────────────────────────┘
                  ▲                                               ▲
                  │                                               │
┌─────────────────────────────────────┐         ┌─────────────────────────────────────┐
│          Load balancer               │         │              VPN                     │
│        [Infrastructure]              │         │        [Infrastructure]              │
│                                      │         │                                      │
│                                      │         │                                      │
└─────────────────────────────────────┘         └─────────────────────────────────────┘
                  │                                               
                  ▼                                               
┌─────────────────────────────────────┐                         
│           Web-Api                    │ ◄───────────────────────
│        [Restful web api]             │
│                                      │
│      Main Web API provider           │
└─────────────────────────────────────┘
                  │
        ┌─────────────────────┐
        │   Main Database     │
        │    [: Postgres]     │
        └─────────────────────┘
```

[AS-IS] Dnote Investment Platform
[Investment platform application]

User Portal - mobile
[Mobile Application]

Make transactions, get balance, get reports

User Portal
[Frontend Web Application]

Make transactions, get balance, get reports

Admin Portal
[Frontend Web Application]

Manage users, compliance, audit, reports

Load balancer
[Infrastructure]

VPN
[Infrastructure]

Auth Service
[: Restful api]

Simple and decoupled service to provide reliable auth

Public API Gateway
[: GraphQL server]

Gateway for users requests

Admin API Gateway
[: GraphQL server]

Gateway for admin operation

Scheduler
[: Robust server or serverless event driven array of applications]

Takes caro of the infrequent and high cpu bound work

General API
[Container: e.g. SpringBoot, ElasticSearch, etc.]

Takes care of the main CRUD operations

User Database
[: Postgres]

Isolates user data on high security level and durability

Transactions DB
[: Postgres]

Isolates transactions data on high security level and durability

Analytics DB
[: OLAP DB]

Reports
[Container: High performant IO system [Node/Deno server or Kafka-like applications, depending on volume]]

Consolidates data about users and operation to reports, analytics and ML

[TO-BE] Dnote Investment Platform
[Investment platform application]