High-Level Architecture:

- Web Interface: This is where fund managers and investors interact with the system.
- Application Layer: Handles business logic and communicates with the database and other services.
- Real-Time Updates: A component responsible for handling real-time updates and notifications.
- Database: Stores all data related to investment pools, users, transactions, and more.
- Security: Manages user authentication, authorization, and encryption.
- Scalability and Load Balancing: Ensures the system can handle a growing number of users and transactions.

Scalability:

- Microservices Architecture: Break the system into microservices that can be independently scaled. For example, separate services for user management, transaction processing, and real-time updates.
- Load Balancers: Distribute incoming requests across multiple servers to balance the load.
- Caching: Implement caching for frequently accessed data to reduce database load.
- Horizontal Scaling: Add more server instances as the user base and transaction load grow.

Technologies:

- Backend: Laravel
- Database: MySQL
- Frontend: React
- Real-Time: Socket.io or Laravel WebSockets
- Version Control: Git