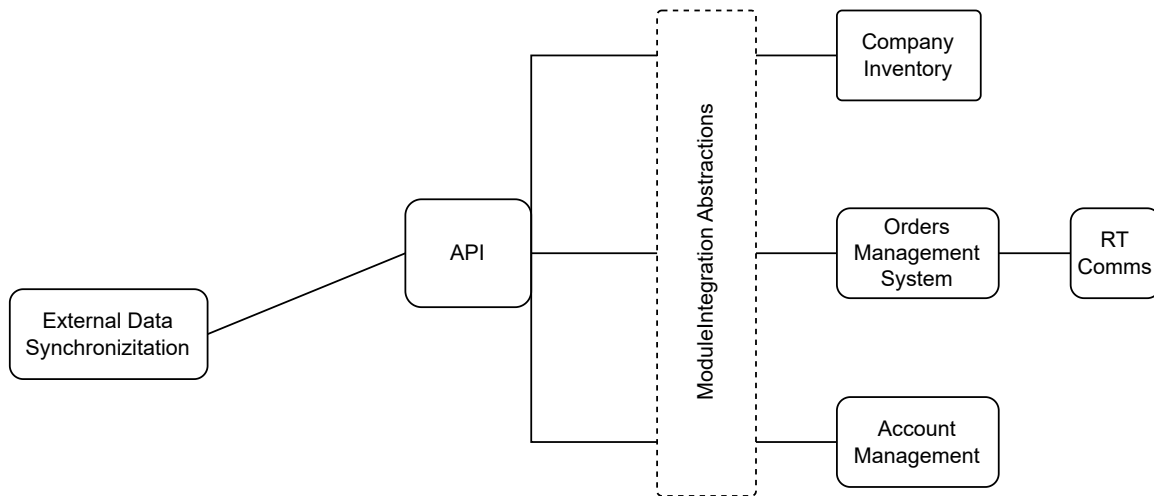
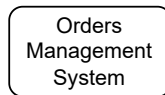


Impelementation Options:
 * Console Application,
 * WebApp with background processor
 * Azure Function
 For simplicity in the first phase of the development process we will use a standalone ConsoleApplication. The ideal situation for production environment would be to have a scheduled Azure Function



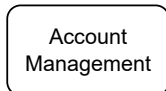
Endpoint Handling
Check Authorization



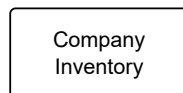
Keep Order Book
Manage Orders
* register new orders
* cancel orders
* match orders



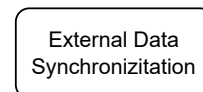
manage connected user sessions
* transmit updated data received from the order management system



* Authenticate
* Track user trading activity related information
* funds management

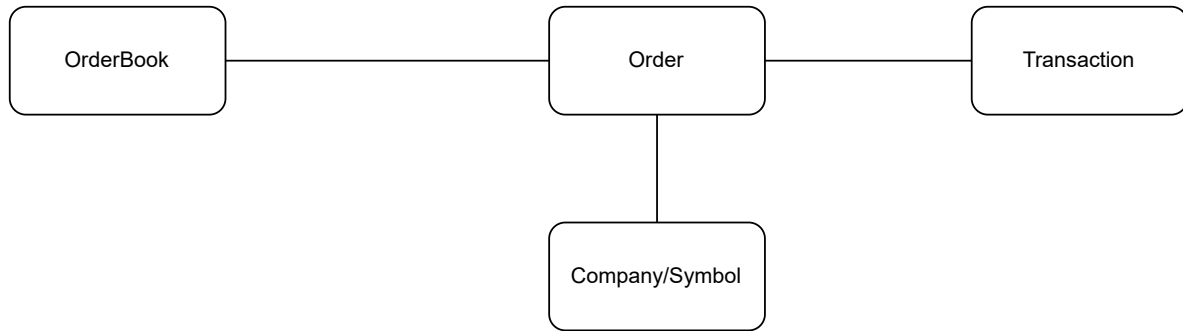


* keeps the company associated information and historical data

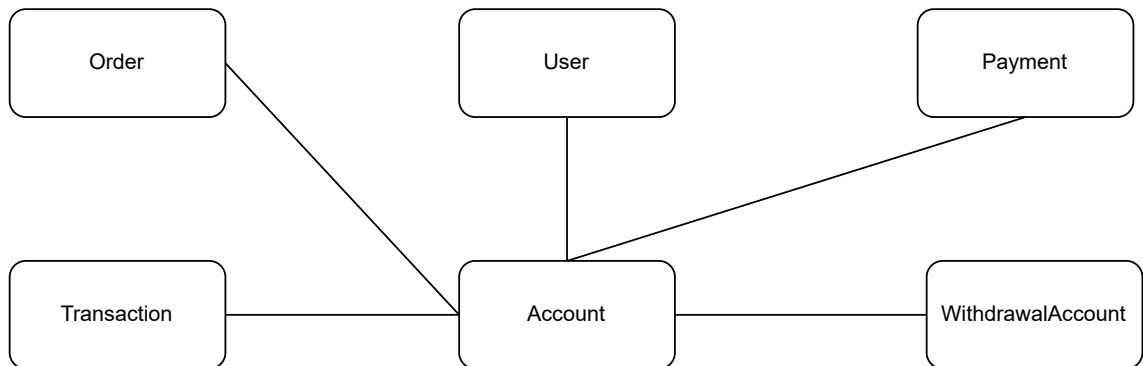


* connect to external system to synchronize market data
* transmit the refreshed market data to the order management system

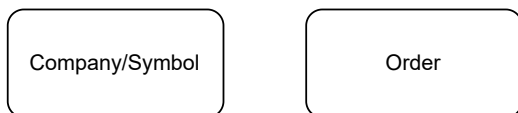
Order Management System



Account Management



External Data Synchornization



Approach

Vertical Slices Architecture

CQRS - Command and Query Request Segregation

Single Page Application on the frontend