London Stock Exchange Improved Design

- To improve this application, I would instead go with a Microservices Architecture design.
- Therefore I would separate the application into 2 different business logics: Trade and Stock.
- The Trade service would hold all the logic relating to trades and Stock service would hold all the logic relating to stocks.
- For common logic shared amongst services, I would create a library which holds these logics, and install to services as packages
- The data relating to stocks and trades would be stored in a database, in separate tables: Stock table and Trade table.
- The services would communicate via a Message Broker/Message Queue.

API Gateway

Common Business Logic Library

Trade

Microservice

Stock

Microservice

Database