

Functional Requirements

- A user shall sign in using their username and password
 - Appropriate pattern: **Because this it requires multiple levels of security It needs a Pattern Layered** , It also needs to backup user data so it is used **Repository**
 - Inappropriate pattern: **MVC** , It does not need to display the data in different ways
- A user should search category
 - Appropriate pattern: **Client server** , The data is distributed among servers, and the search for categories has a server
 - Inappropriate pattern: **Layered** , Because he does not use many services
- A user should order details
- A user shall choose delivery time
- The system should view orders
- The system shall customers service(because an error may occur in the request or a delay in the delivery of the order)
 - Appropriate pattern: **MVC** , Displays data on demand and can be modified

- Inappropriate pattern: **Repository** , Because it does not need data management
- The system should previous orders (to re-order again)
 - Appropriate pattern: **Pipe and filter** , For easy reuse support
 - Inappropriate pattern: **Layered** , No need to add new services

Non-Functional Requirements

- The system shall be fast with screen refresh time of one minutes (because the store you ordered from may be closed)
 - Appropriate pattern: **Pipe and filter** , Because it processes the data in the system
 - Inappropriate pattern: **Layered** , Because it does not need to order layers
- The system shall high reliable(Reduce the occurrence of failure)
 - Appropriate pattern: **Layered** , Because it requires multiple levels of security

- Inappropriate pattern: **Client server** , Because it does not need servers

- The system shall work the application on operating system iOS and Android

- Appropriate pattern: **Repository** , Because the system is large and its management and data are independent
- Inappropriate pattern: **Pipe and filter** , Because it does not need to reuse the data