# Application Tests

\*All requests are send to front-end service at port 18088.

\*Certain fault-tolerance test are done by requesting each order replioca

## Query:

Query for products:  
Graphical user interface, text, application

Description automatically generated  
Graphical user interface, text, application

Description automatically generated

Server Reads cache at second request:  


Graphical user interface, text, application

Description automatically generated  
Server can successfully process order:  
Graphical user interface, text, application, email

Description automatically generated

Subsequent query will reflect stock change:  
Graphical user interface, text, application

Description automatically generated

Frontend server should invalidate its query:

A screenshot of a computer

Description automatically generated with low confidence

Graphical user interface, text

Description automatically generatedFrontend server should be able to retrieve previously succeed order.

The order is replicated across all order replicas

Text

Description automatically generated

The server can process order with leader replica failed, the leader should find new leader and continue process order.  
  


Updated leader:

Text

Description automatically generated

New order

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generatedRestarting replica, the order service should recover and retrieve order from other replicas  
  
Text

Description automatically generated  
Graphical user interface, text

Description automatically generated  
Catalog service will restock after two order with 50 in quantity and update frontend service cache:

Graphical user interface, text, application

Description automatically generated