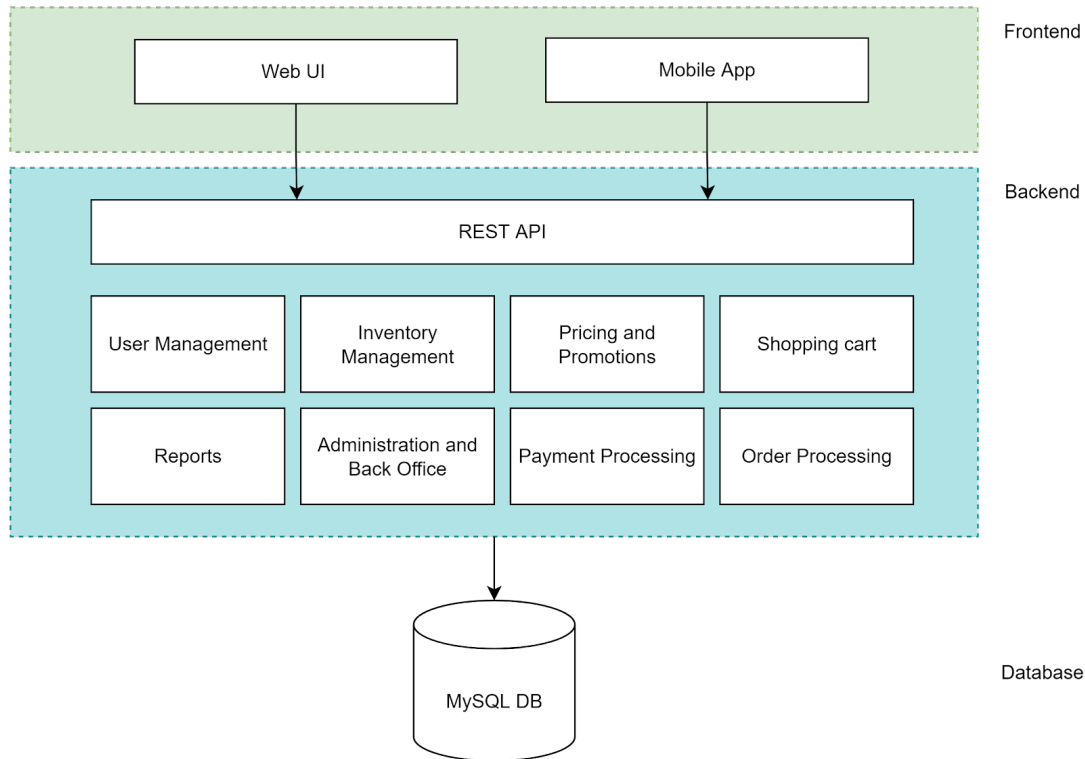


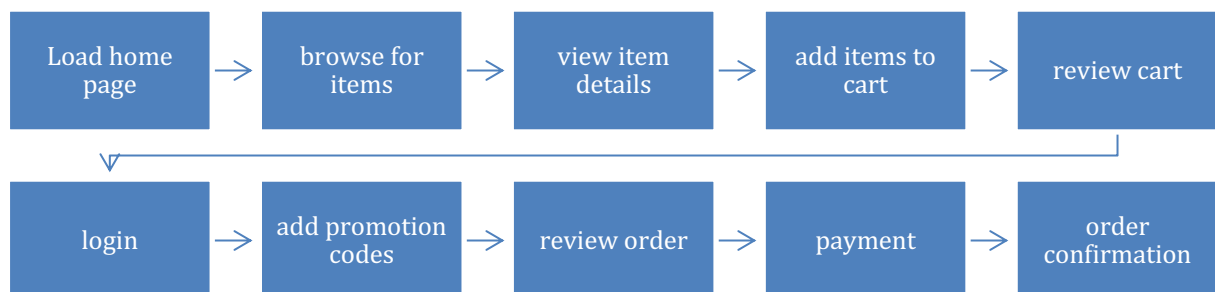
Current System State -

Customer has an existing e-commerce application with website and mobile apps. Following is a high-level component architecture of the existing system commerce platform which he can list and sell various products.

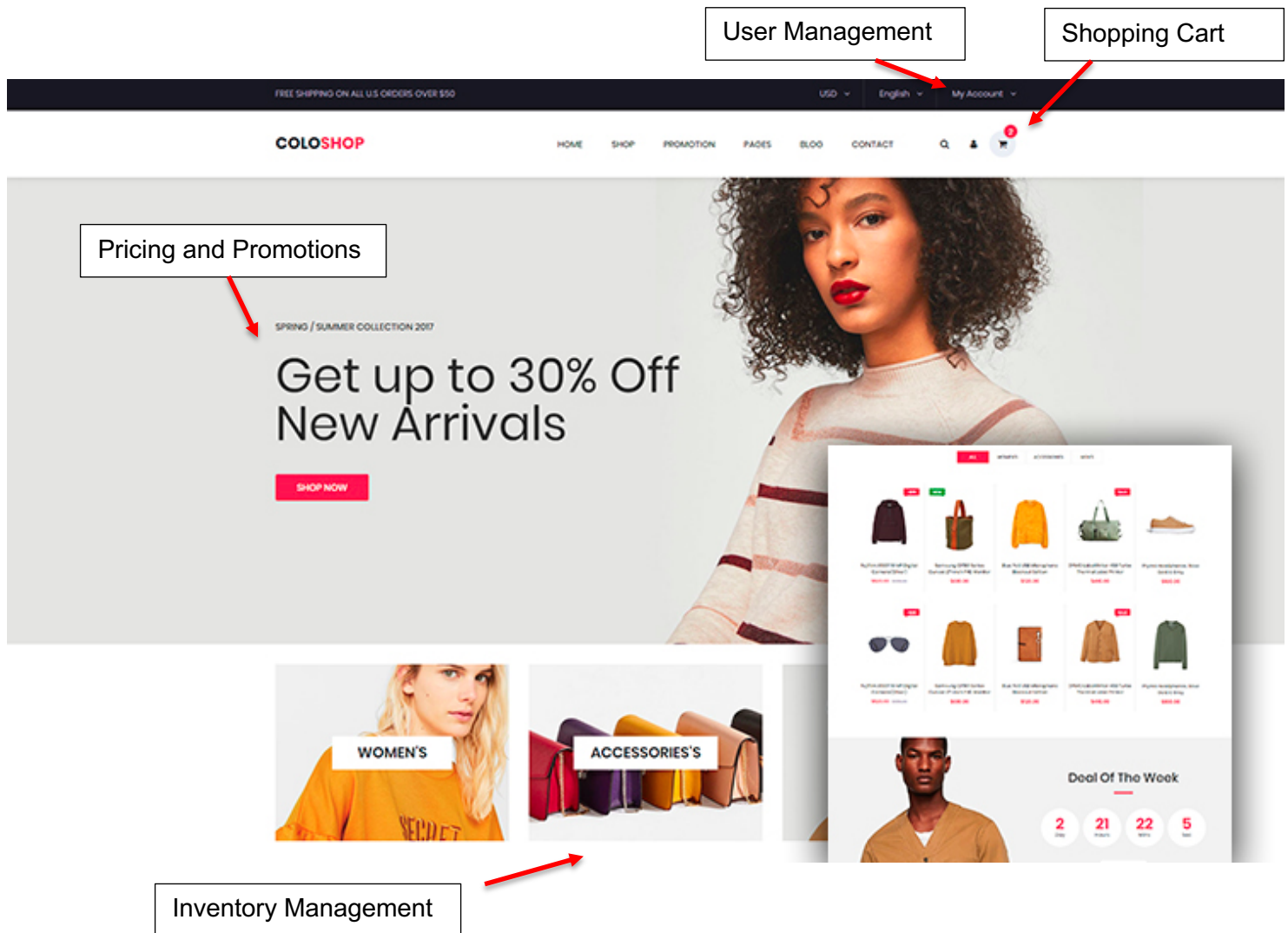


- Backend is written as a single deployable component (monolith)
- Currently system must be run on single server (no state management)

Simple user journey in the system will be as follows



Following is a sample view from web page outlining functionality mapping between presentation and different components of the backend



Change Request -

Client has requested to change the system to meeting following requirements

- Backend needs to be changed into a microservices
- System should be able to deploy in multiple servers to handle increasing load from growing business
- System needs to be integrated with external supplier systems to be able to connect to their system and sell external inventories

Ask –

- Re- Design the system to meet first two requirements and keep provision to implement third requirement as a future enhancement
- You are required to done the architecture changes while maximizing reuse of existing components