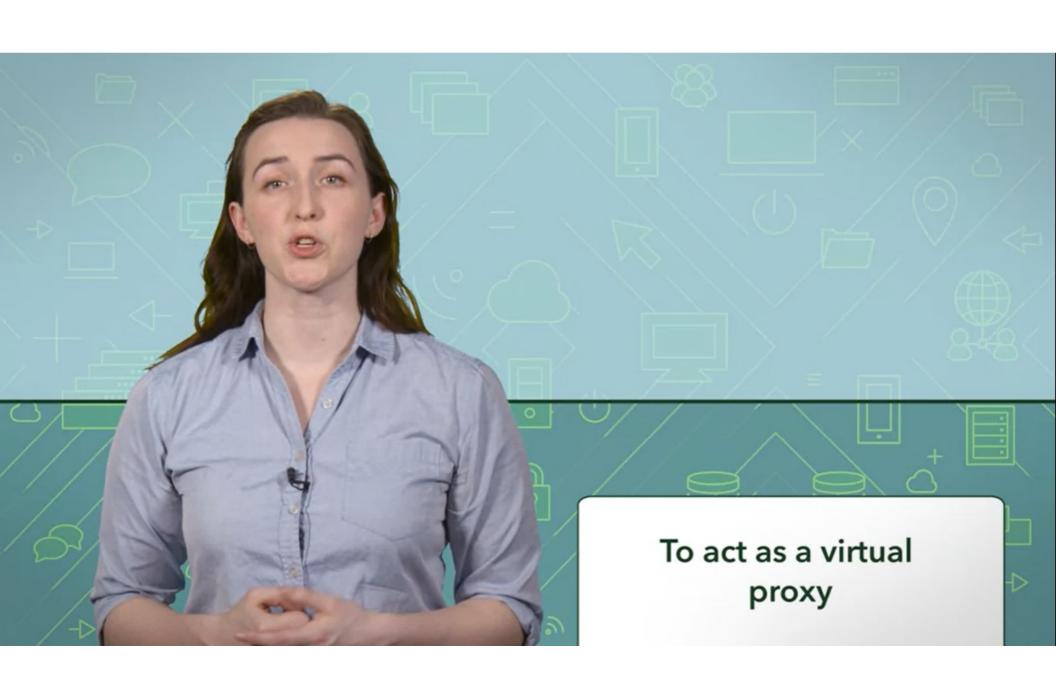
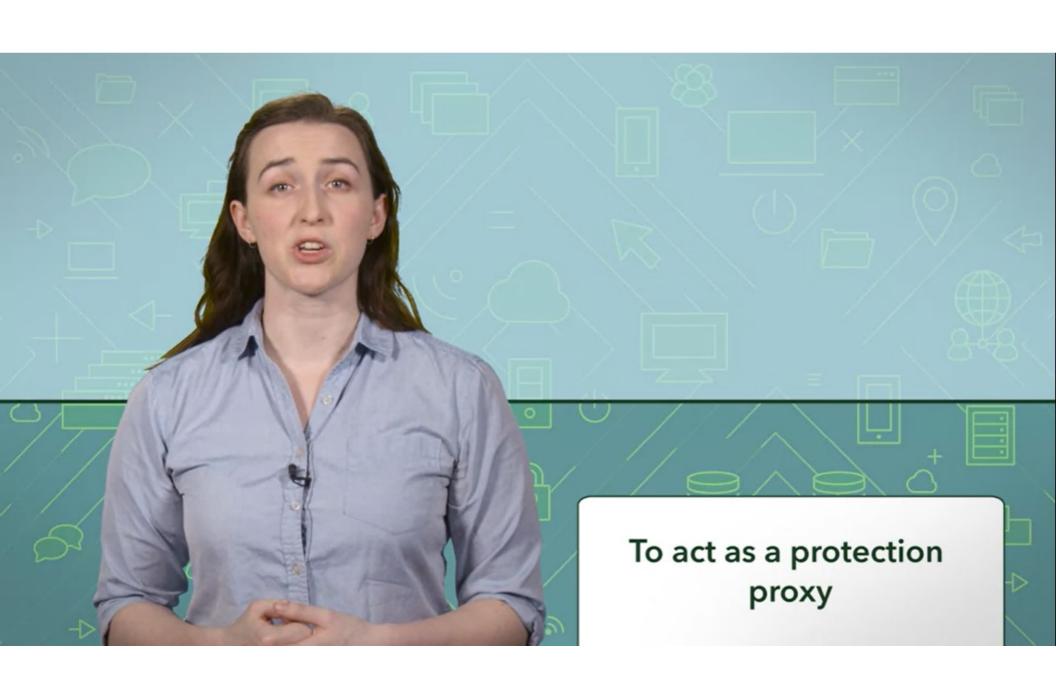
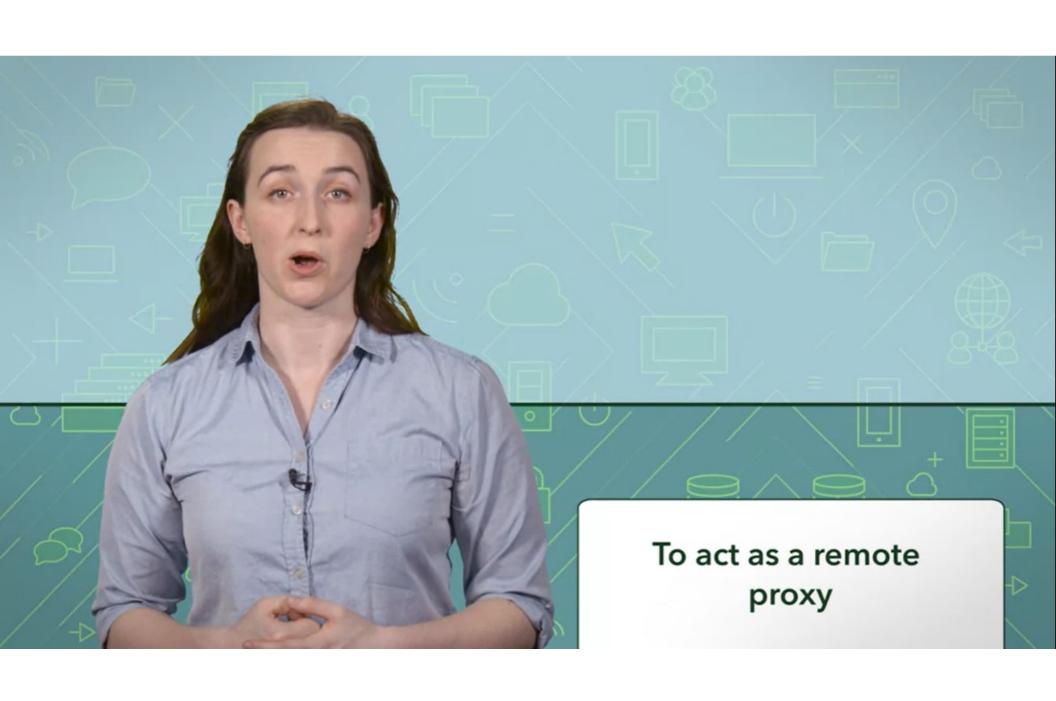
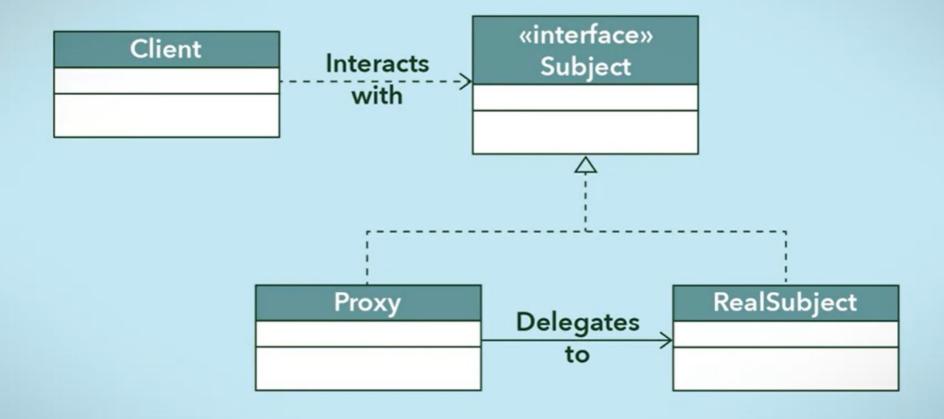


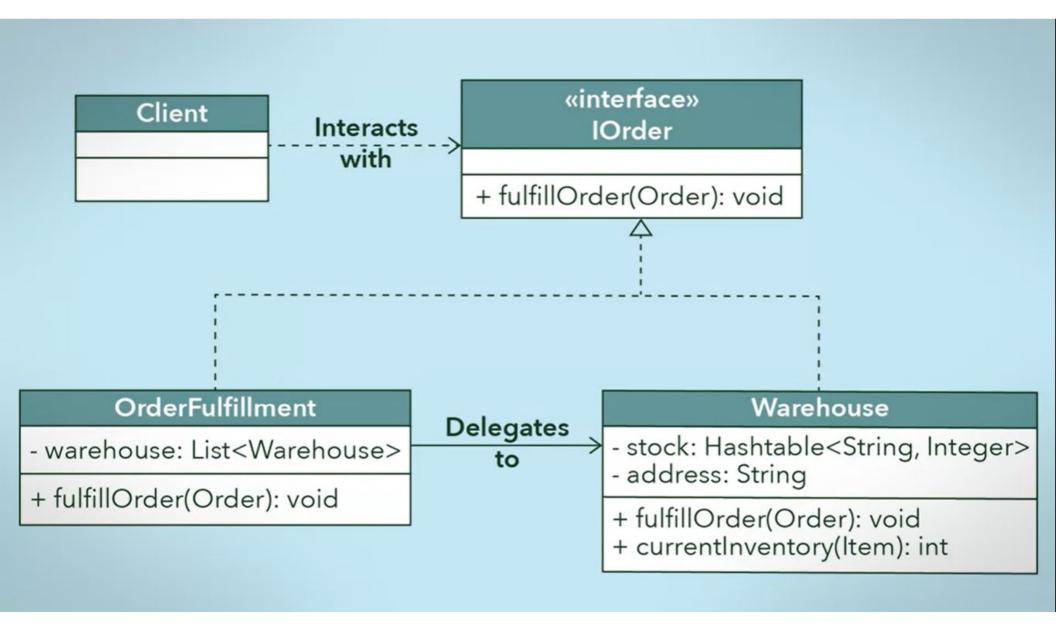
Proxy Pattern









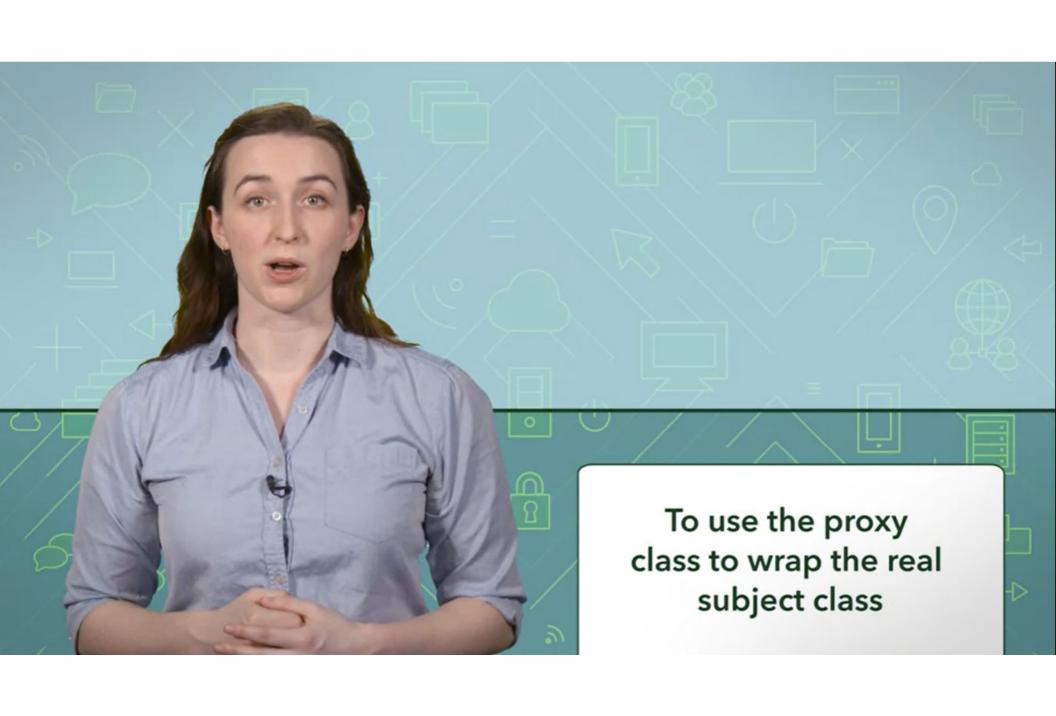


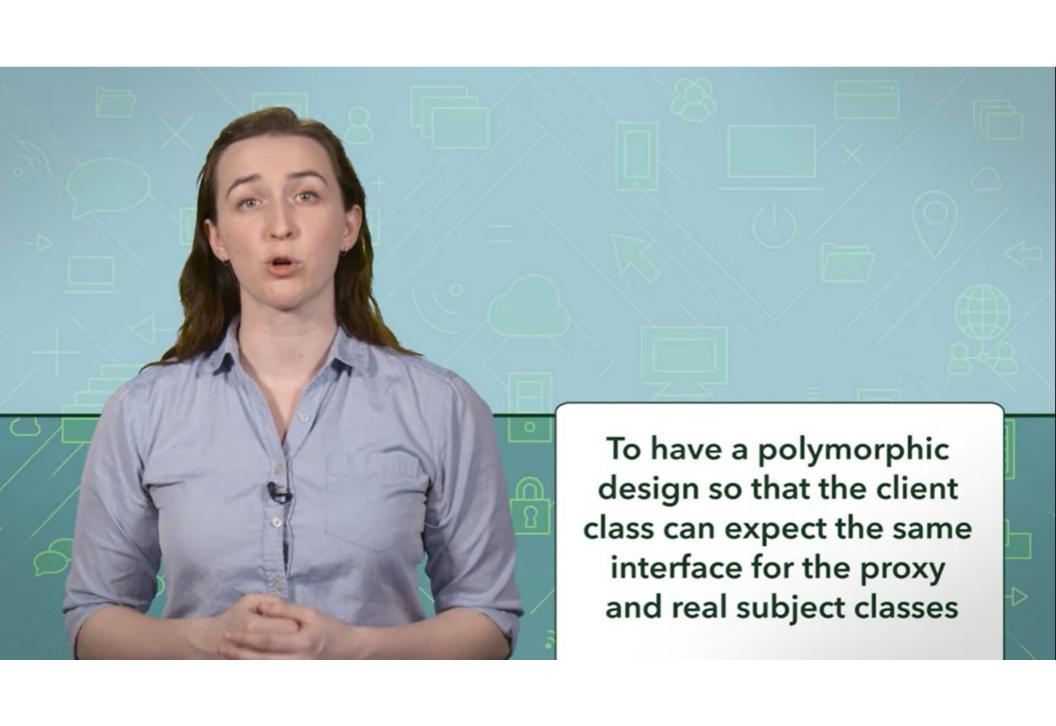


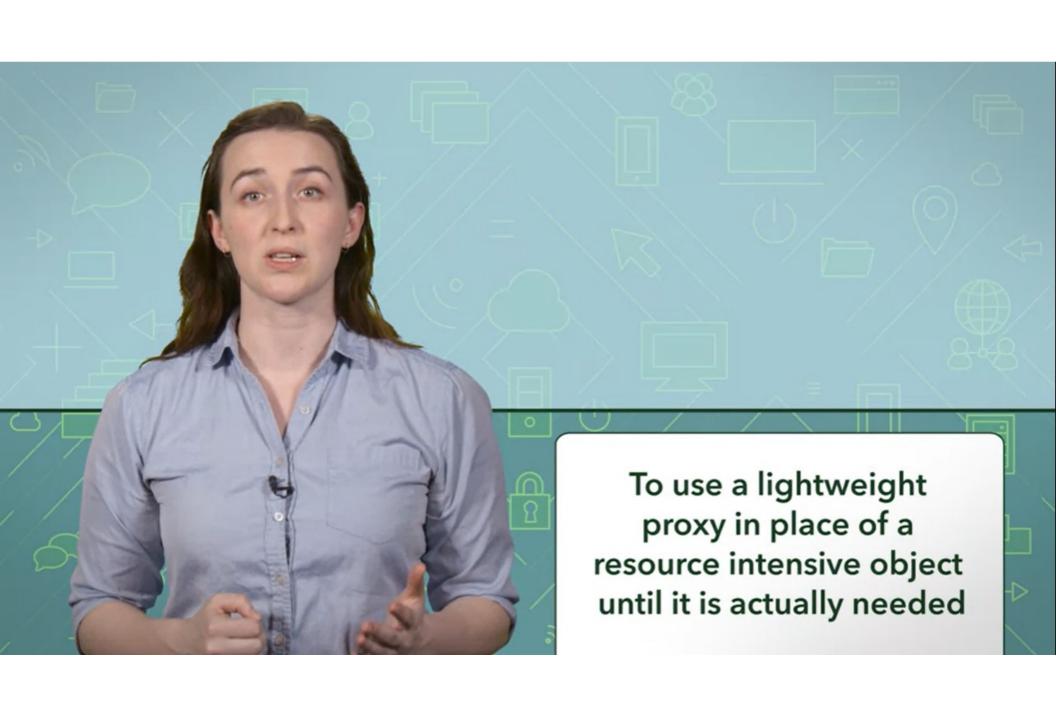
Step 2: Implement the real subject class

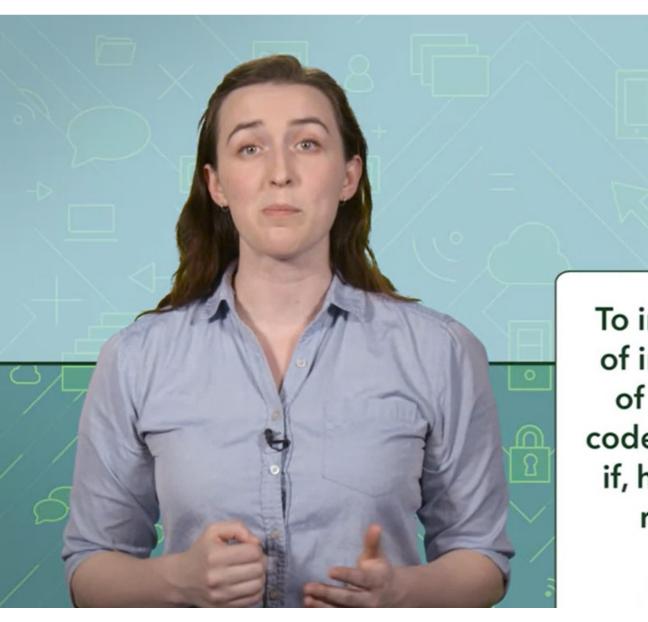
```
public class Warehouse implements IOrder {
private Hashtable<String, Integer> stock;
private String address;
/* Constructors and other attributes would go here */
public void fulfillOrder(Order order) {
     for (Item item : order.itemList)
          this.stock.replace(item.sku, stock.get(item)-1);
     /* Process the order for shipment and delivery */
public int currentInventory(Item item) {
     if (stock.containsKey(item.sku))
          return stock.get(item.sku).intValue();
     return 0;
```

```
public class OrderFulfillment implements IOrder {
private List<Warehouse> warehouses;
/* Constructors and other attributes would go here */
public void fulfillOrder(Order order) {
     /* For each item in a customer order, check each warehouse
     to see if it is in stock.
     If it is then create a new Order for that warehouse. Else
     check the next warehouse.
     Send the all the Orders to the warehouse(s) after you finish
     iterating over all the items in the original Order. */
     for (Item item: order.itemList) {
         for (Warehouse warehouses) {
     return;
                                        Step 3: Implement
                                          the proxy class
```









To implement some form of intelligent verification of requests from client code in order to determine if, how, and to whom the requests should be forwarded to

