

## Alarm API

```
enum TimeUnit {SECONDS, MINUTES, HOURS, DAYS};
enum TemperatureType {CELSIUS, FAHRENHEID};

interface SmokeAlarm{
    void turnOn();
    void turnOff();
};

interface MotionAlarm{

    void turnOn(int delay, TimeUnit timeUnit);
    void turnOff();
    void changeDelay(int delay, TimeUnit timeUnit);
};

interface TemperatureAlarm{

    void turnOn(int temperature, TemperatureType tempType):
    void turnOff();
    void changeTemperatureAlarmLevel(int temperature,
TemperatureType tempType):

    setTemperatureLogger(TemperatureLogger temperatureLogger);
    TemperatureLogger getTemperatureLogger();
};

interface TemperatureLogger{
    void start(int interval, TimeUnit timeUnit);
    void stop();
    void changeLogInterval(int interval, TimeUnit timeUnit);
    List<TempLogRecord> getHistoryForNumberOfLastDays(int days);
};

interface AlarmLogger{
    void start(int interval, TimeUnit timeUnit);
    void stop();
    void setLogInterval(int interval, TimeUnit timeUnit);
    List< AlarmLogRecord > getHistoryForNumberOfLastDays(int
days);
};

interface Alarm{

    SmokeAlarm getSmokeAlarm();
    MotionAlarm getMotionAlarm();
    TemperatureAlarm getTemperatureAlarm();
    AlarmLogger getAlarmLogger();
}
```

```
};
```

#### Client code:

```
Alarm alarm = new Alarm();
TemperatureAlarm temperatureAlarm = alarm.getTemperatureAlarm();
temperatureAlarm.turnOn(45, CELSIUS);
MotionAlarm motionAlarm = alarm.getMotionAlarm();
motionAlarm.turnOn(600, TimeUnit.MINUTES);
AlarmLogger alarmLogger = alarm.getAlarmLogger();
alarmLogger.start(10, TimeUnit.MINUTES);
```

#### Shoppingcart API

```
public interface ShoppingCart {

    void addToCart(int cartId, int quantity, ProductDTO product);
    void changeQuantity(int cartId, int productId, int quantity);
    void removeFromCart(int cartId, int productId);
    ShoppingcartDTO getShoppingcart(int cartId);
    //saveCart(ShoppingCartDTO shoppingCart);
}

public interface Stock{
    int getQuantityOnStock(ProductDTO product);
}

public interface Order{
    OrderDTO createOrderFromCart(ShoppingcartDTO shoppingCart);
}
```

