



Unleash Your Domain

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Agenda

- The Issues
- The Breakthroughs
 - Explicit State Representation
 - Event Storage
 - Command Query Separation
 - Asynchronous Context Mapping
- Summary
- Questions

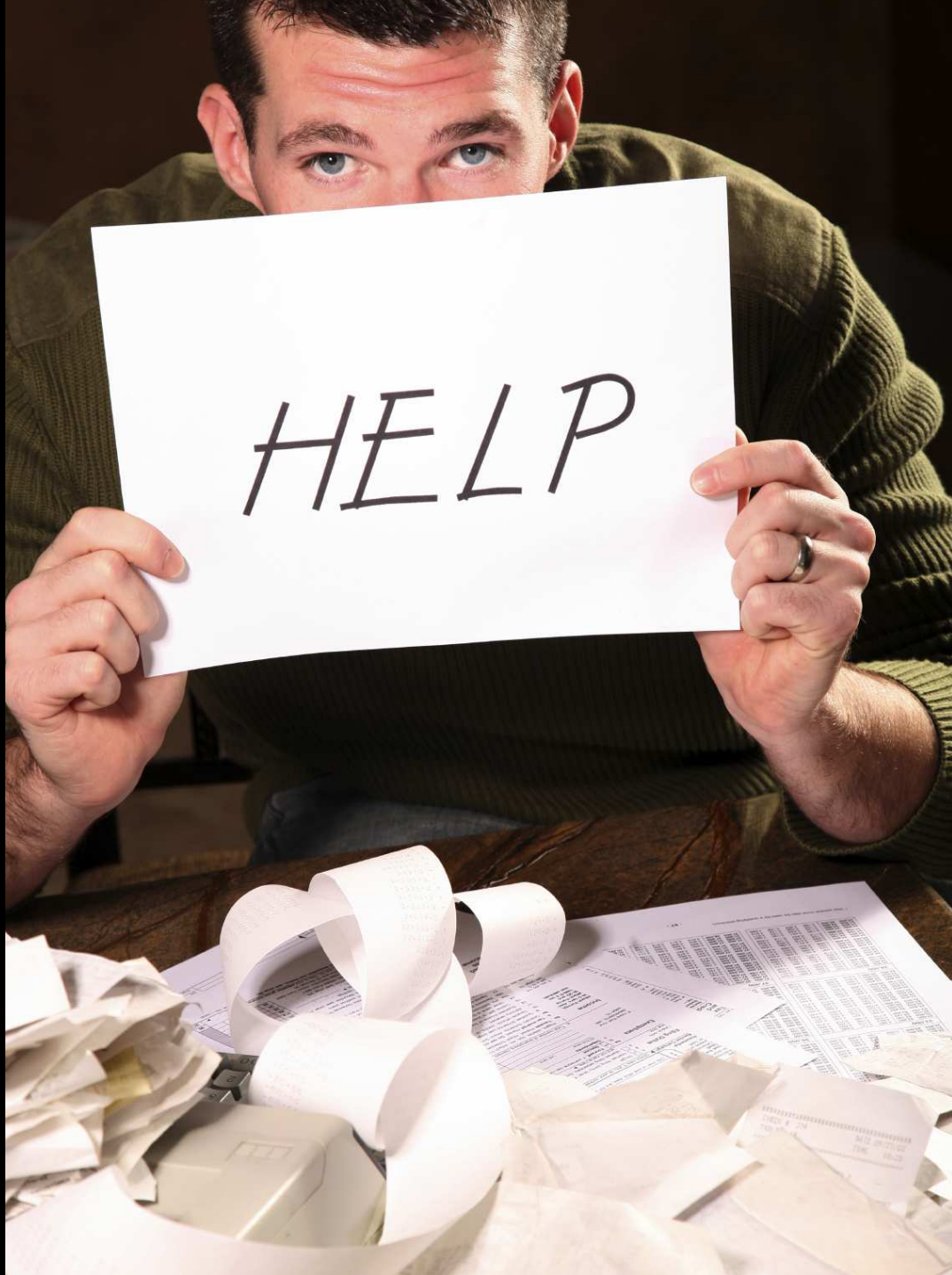


TOXICITY REPORTING FORM (continued)

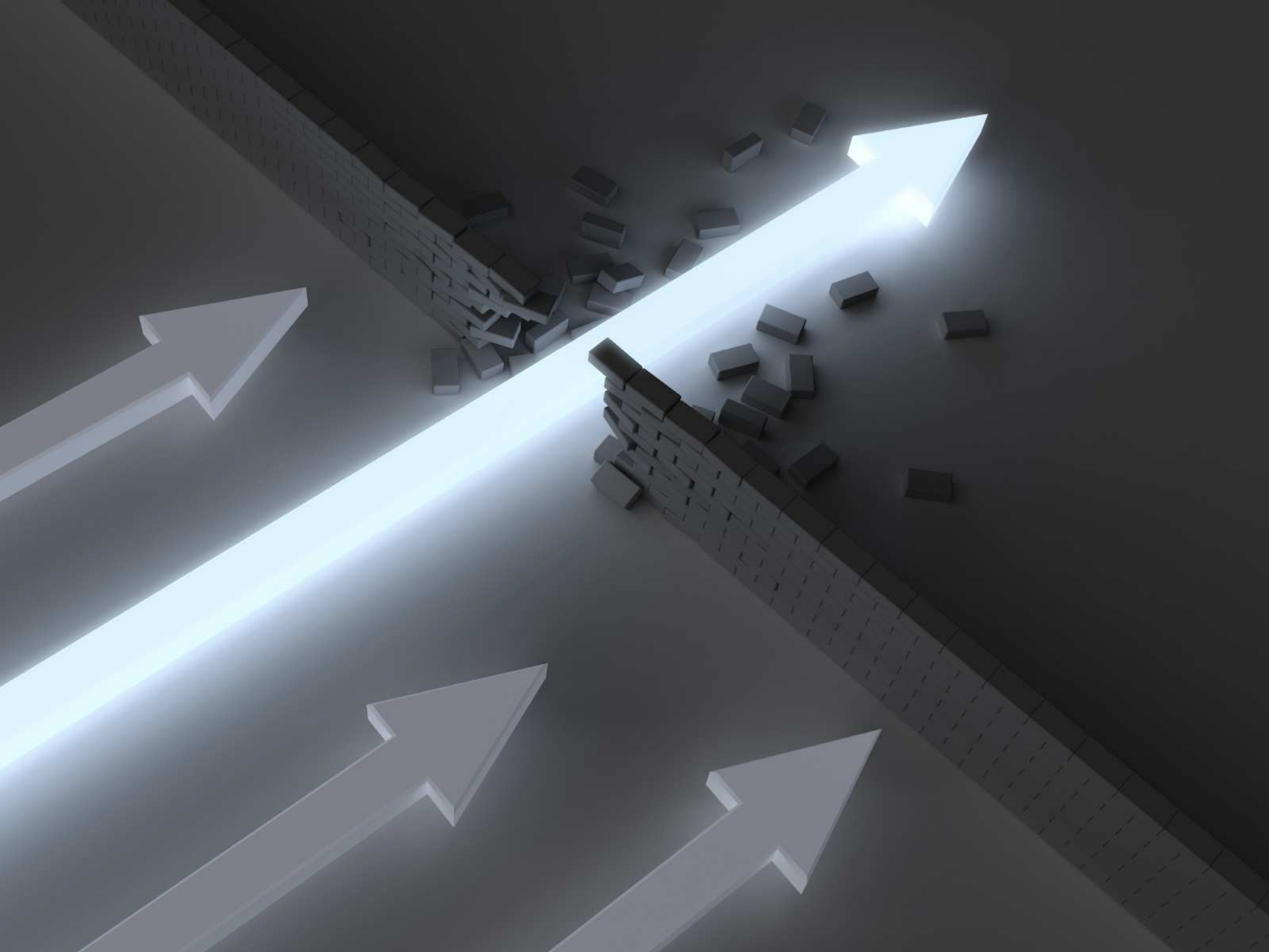
Patient reference no. _____

	OWNL	1 (Mild)	2 (Moderate)	3 (Severe)	4 (Unacceptable)
STOMACH					
1. Stomatitis	none	erythema, or mild soreness	painful/odema can eat	cannot eat or drink	requires parenteral or enteral support
2. Abdominal pain-severity-treatment	none	mild not required	moderate required - helps	moderate-severe required-no help	
3. Constipation	no chg	mild ileus	mod ileus	severe ileus	
4. Diarrhoea	none	7-12 stools/day	7-9 stools/day or mod. cramps	7-9 stools/day or severe cramps	
RESPIRATORY					
5. Intake	reasonable intake 1 x/day	decreased intake 2-5 x/day	no sig. intake 6-10 x/day		
6. Tachypnea	normal	80-89	65-79	50-64	
7. Dyspnea	>30	tachypnea	dyspnea	O ₂ required	
CARDIOVASCULAR SYSTEM					
8. Hypertension	<20% increase	24-30	20-24	<20	
9. CHF	asymptomatic/fej. Fr. <20%	asymptomatic/fej. fr. <30% baseline	mild CHF/ responds to Rx	severe or refractory CHF	
10. Hypotension	asympt./transient increase by >20mmHg. no Rx req	recor./persist increase by 20mmHg. no Rx req	requires therapy	hypertensive crisis	
NEUROLOGICAL					
11. Paresthesias	no chg	mod sensory loss, mod paresthesias	interferes with function		
12. Central Cerebellar	no chg	mild obj weakness / no sig impair	obj weakness		
CNS - general					
13. Slight increase	no chg	slight increase			



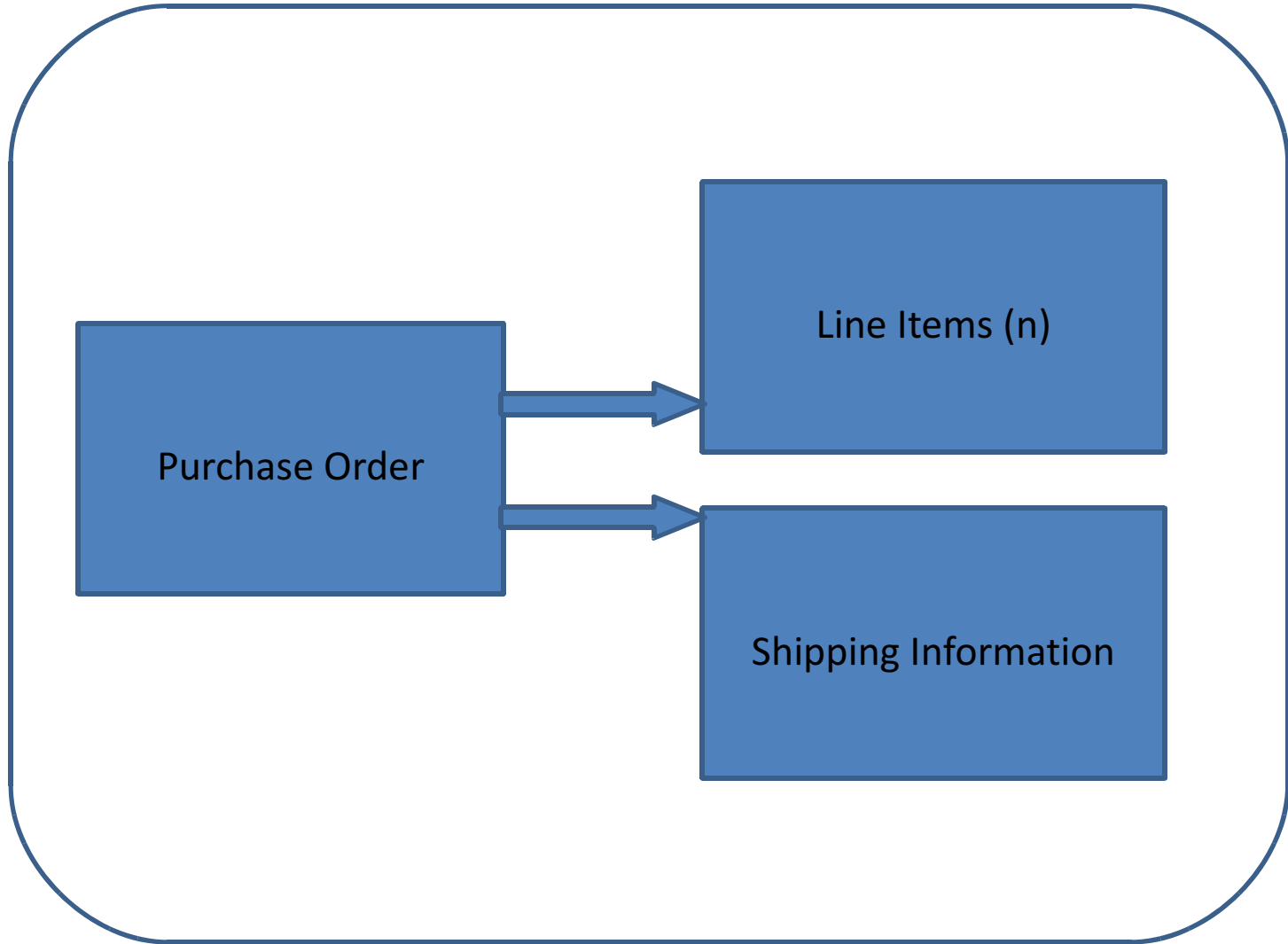


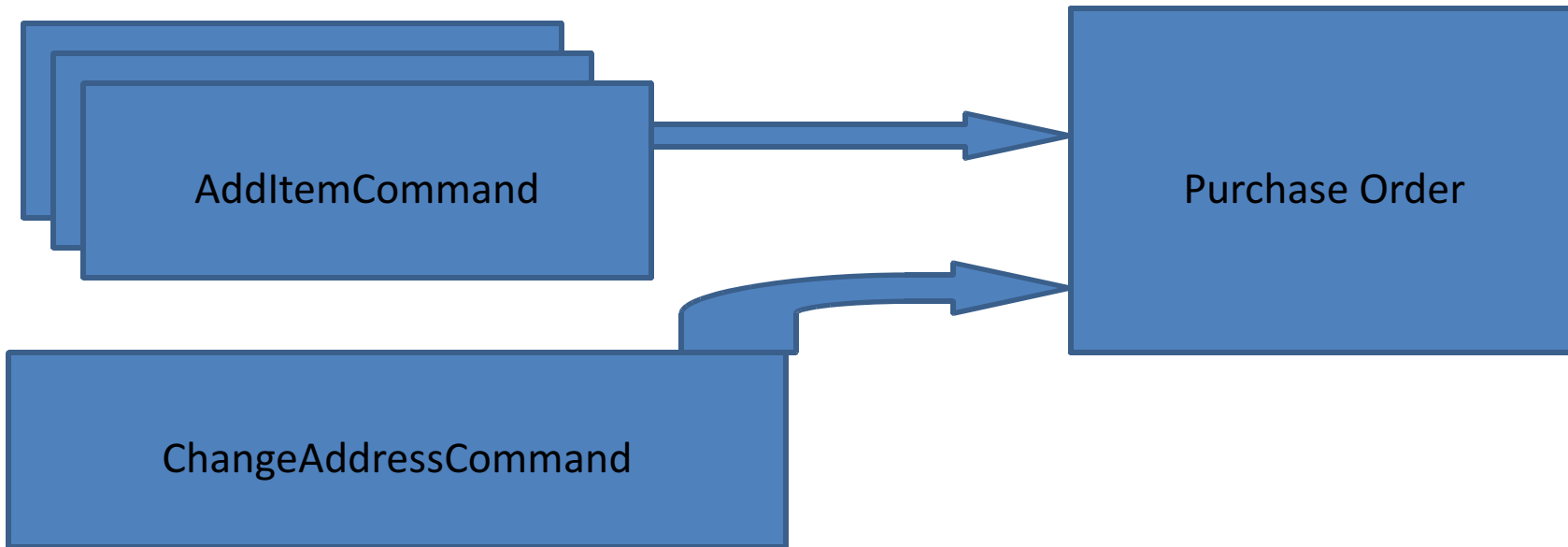




State transitions are an important part of our problem space and should be modeled within our domain.







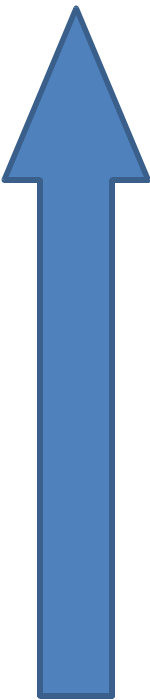




Replay

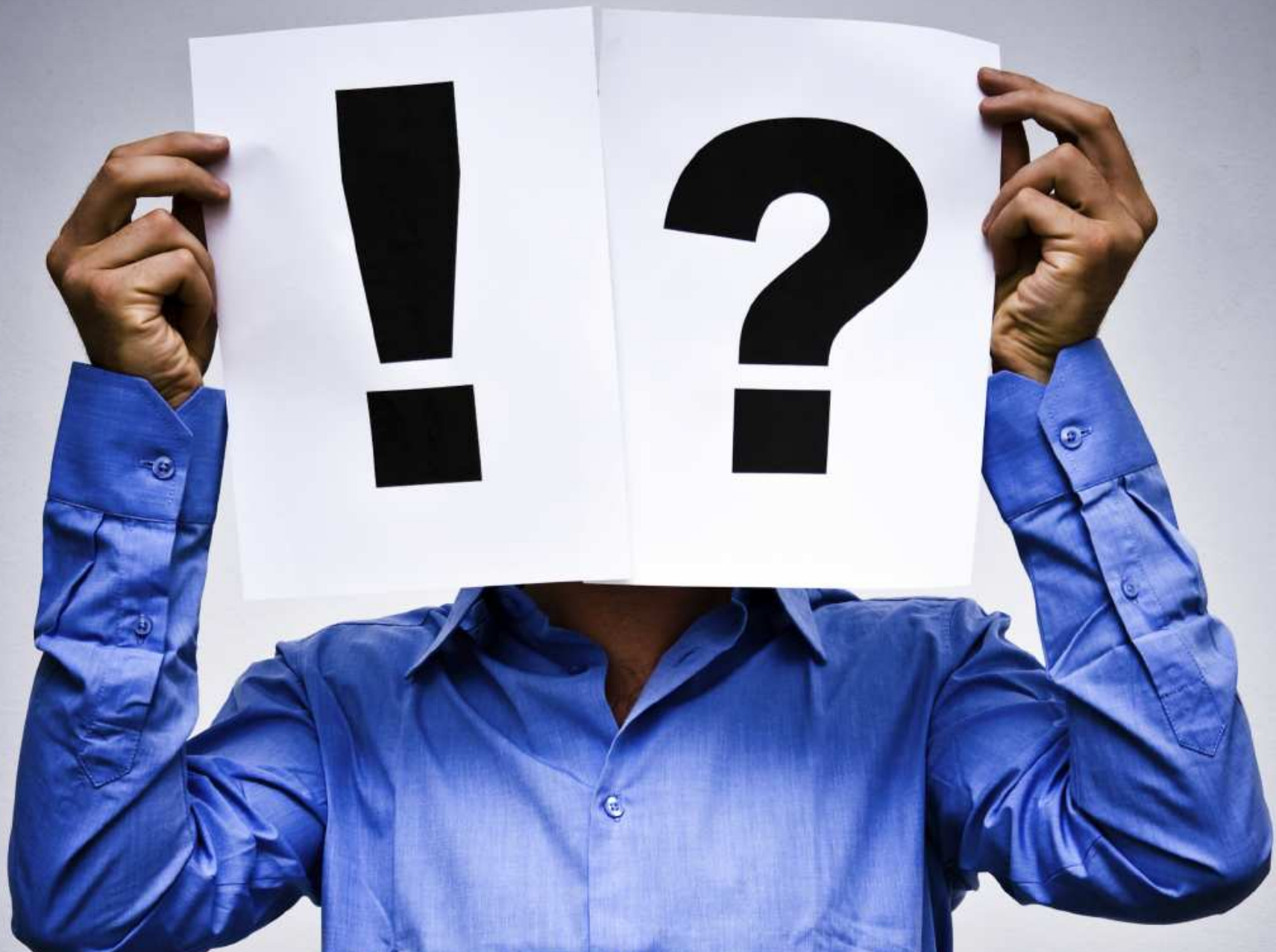
Skip

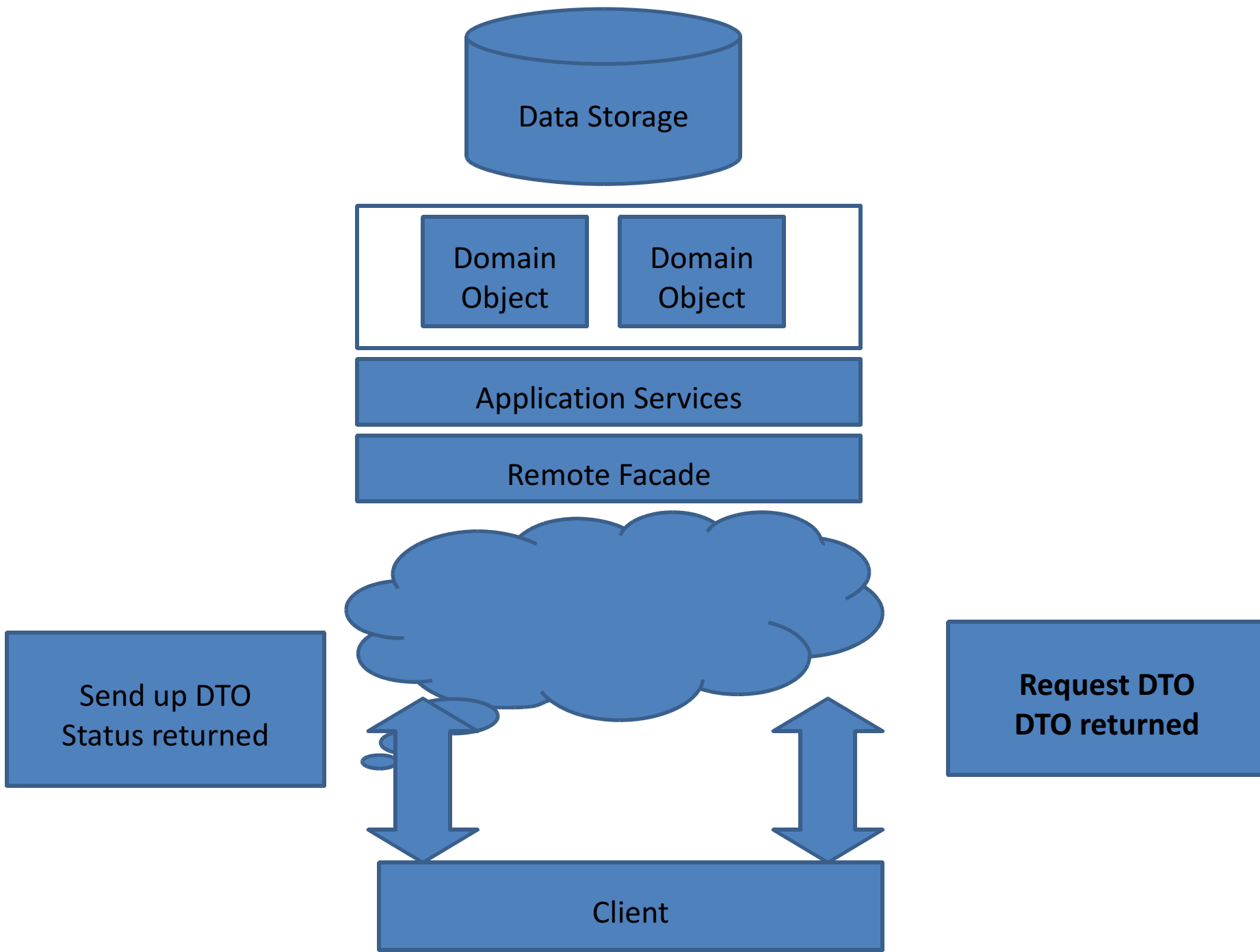


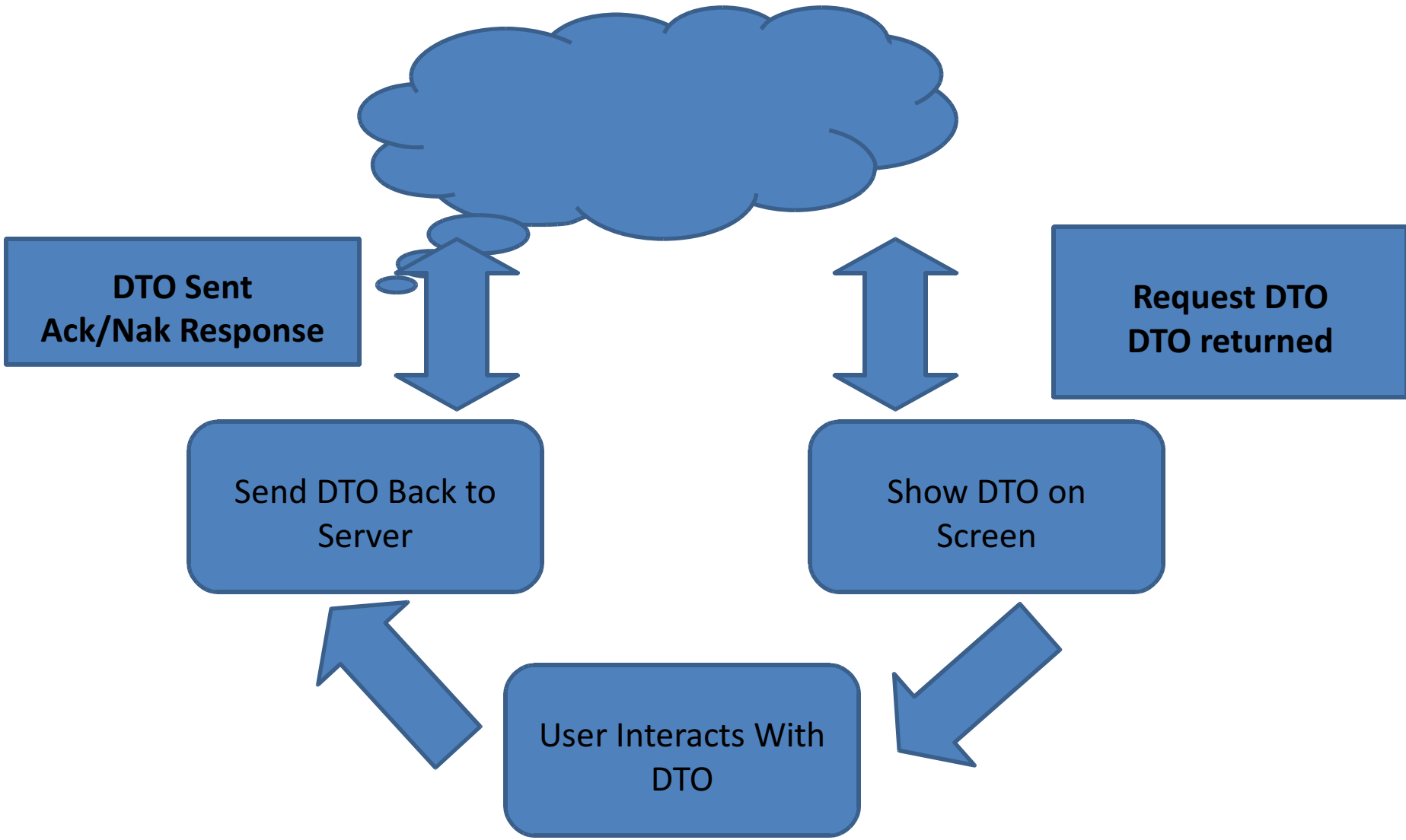


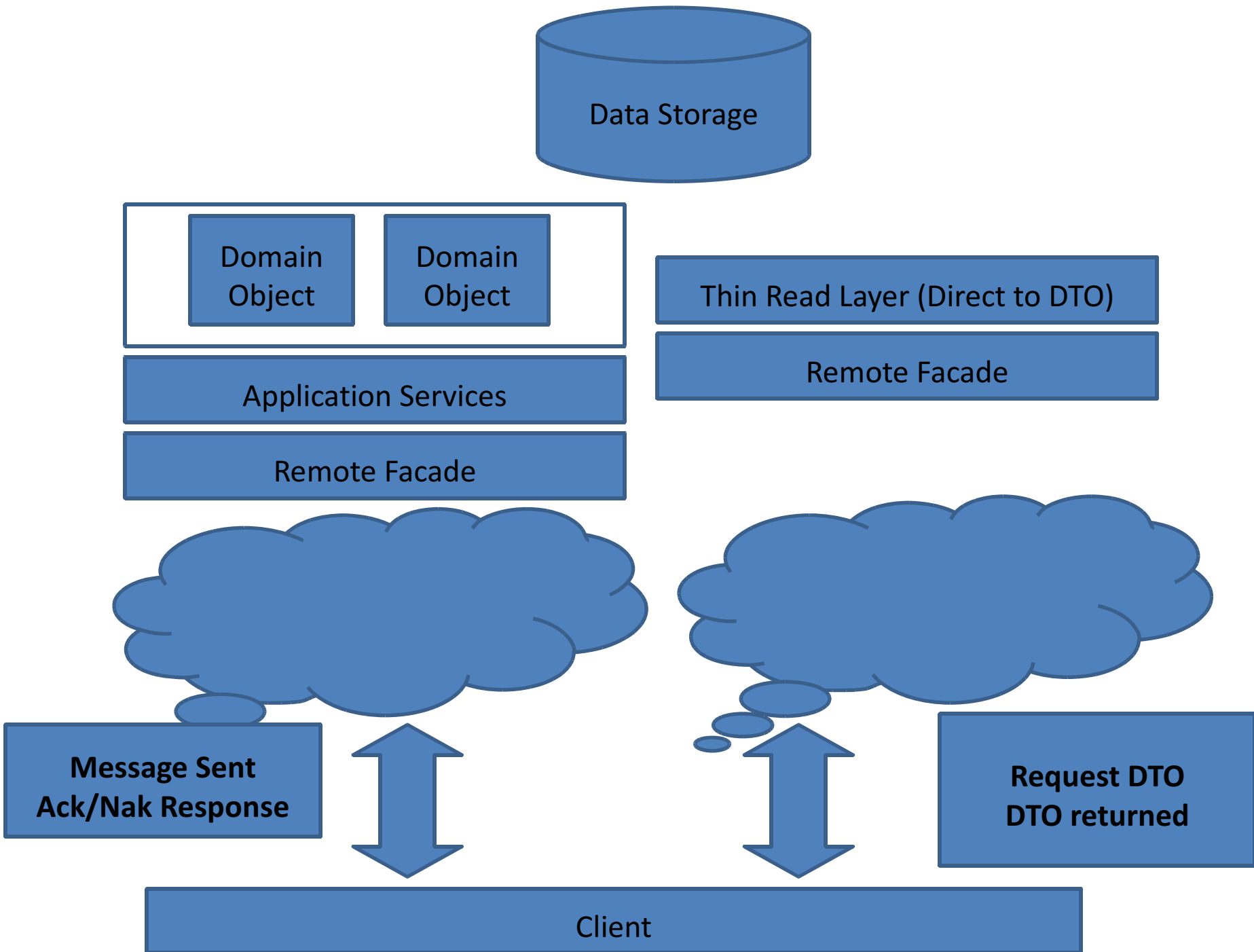


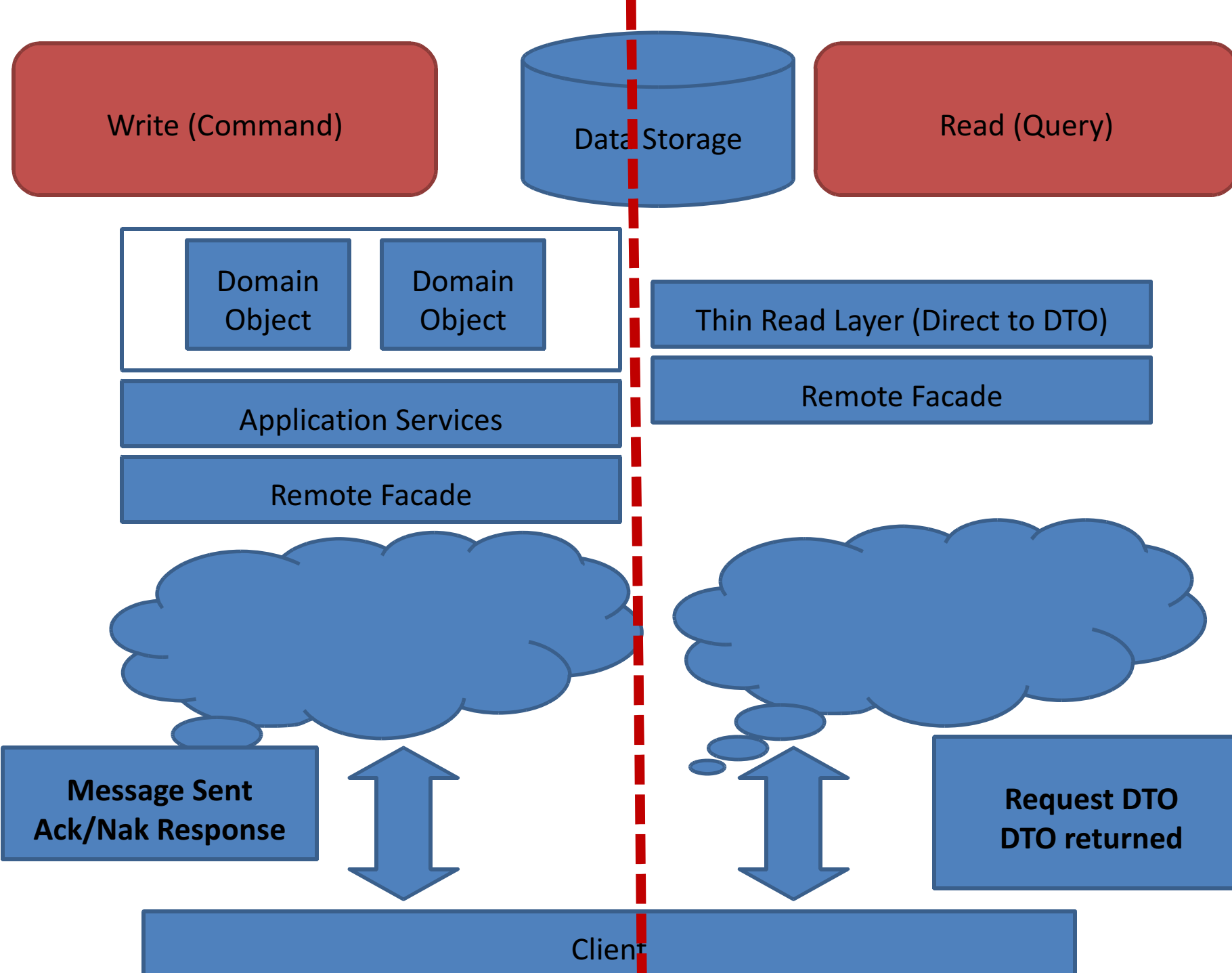












A single model cannot be appropriate for reporting, searching, and transactional behaviors...

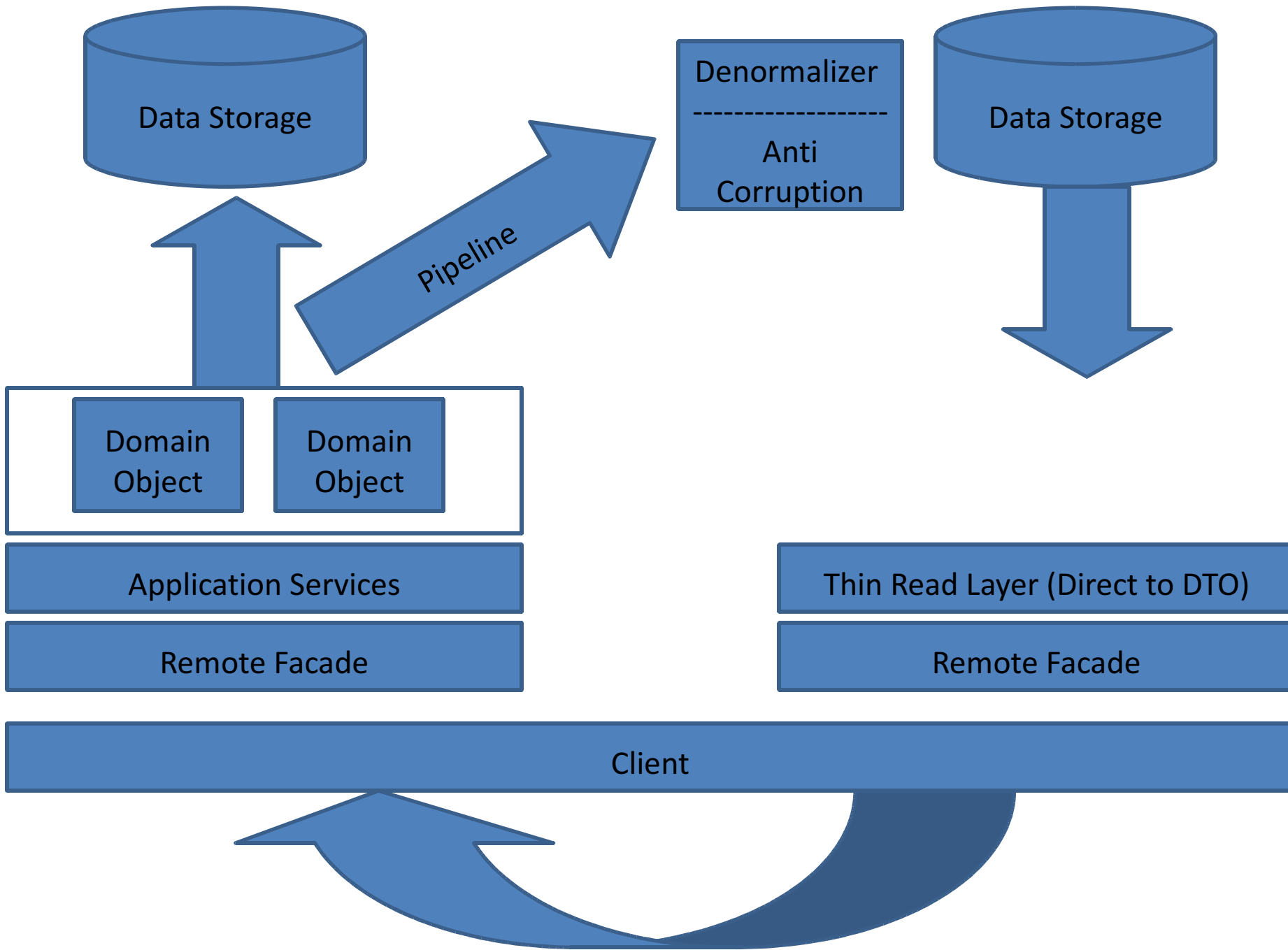





The model that a client needs the data in a distributed system is screen based and different than the domain model.



Most queries can operate with relaxed consistency...







Getters and Setters are a domain anti-pattern.

```

public interface Content extends IdBasedDomainObject, Editable {
    String getByLine();
    DateTime getLastLiveTime();
    DateTime getPublicationDate();
    DateTime getWebPublicationDateTime();
    Publication getPublication();
    Integer getPageNumber();
    boolean isSensitive();
    String getMarkedSensitiveBy();
    DateTime getMarkedSensitiveOn();
    List<Tag> getTags();
    List<Keyword> getKeywords();
    NewspaperBook getBook();
    NewspaperBookSection getBookSection();
    Series getSeries();
    Contributor getContributor();
    List<Contributor> getContributors();
    List<Tone> getTones();
    Section getDerivedSection();
    Page getPage();
    List<Content> getNestedContent();
    boolean shouldBeDeletedWhenPageIsDeleted();
    boolean isTrailblockFromDisplayStoryPackage();
    boolean isPluckCommentable();
    boolean isSynchronisedWithPluck();
    void removeSeries();
    void addTag(Tag tag);
    void removeTag(Tag tag);
    void replaceTag(Tag originalTag, Tag replacementTag);
    boolean isTagSetValid();
    List<Series> getSeriesList();
    String getTypeName();
    String getTrailNameDisplay();
    Trailblock<TrailblockElement> getTrailblock();
    boolean hasSensitiveKeyword();
    void setFootballMatchReference(ExternalReference externalReference);
    ExternalReference getFootballMatchReference();
    void setCricketMatchReference(ExternalReference externalReference);
    ExternalReference getCricketMatchReference();
    ExternalReference getFilmReference();
    void setFilmReference(ExternalReference filmsExternalReference);
    void setFilm(Film film);
    Film getFilm();
    DateTime getScheduledExpiryDate();
    boolean isExpired();
    DateTime getClosingDateForCommenting();
    DateTime getClosingDateForCommentRecommending();
    boolean isCommentingClosed();
    boolean isCommentRecommendingClosed();
    StarRating getStarRating();
    boolean isInMicrosite();
    List<? extends Factbox> getFactboxes();
    boolean hasTone(ToneName name);
    boolean isEditorial();
    boolean isBlockAds();
}

```

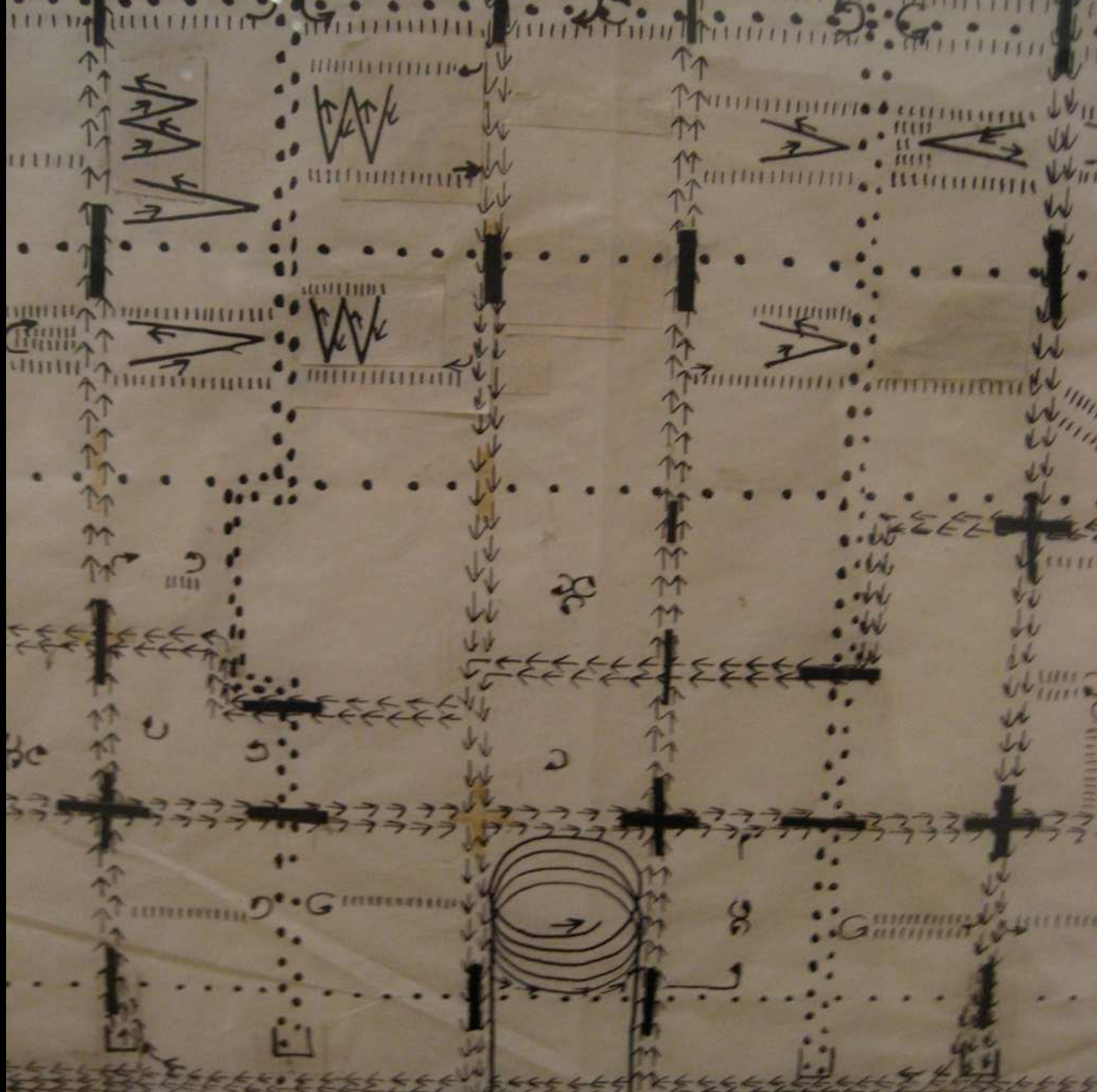
```
public interface Content extends IdBasedDomainObject, Editable {
```

```
void removeSeries();  
void addTag(Tag tag);  
void removeTag(Tag tag);  
void replaceTag(Tag originalTag, Tag replacementTag);
```

```
    finalReference);
```

```
    finalReference);
```

```
    reference);
```

Most Bounded Contexts can interact with relaxed consistency.



Using relaxed consistency allows us to increase
our scalability and availability!

“Man acts as though he were the shaper and master of language, while in fact it is language that is the master of man.”



State transitions are an important part of our problem space and should be modeled within our domain.

Getters and Setters are a domain smell.

Most Bounded Contexts can interact with relaxed consistency.

A single model cannot be appropriate for reporting, searching, and transactional behaviors...



Questions