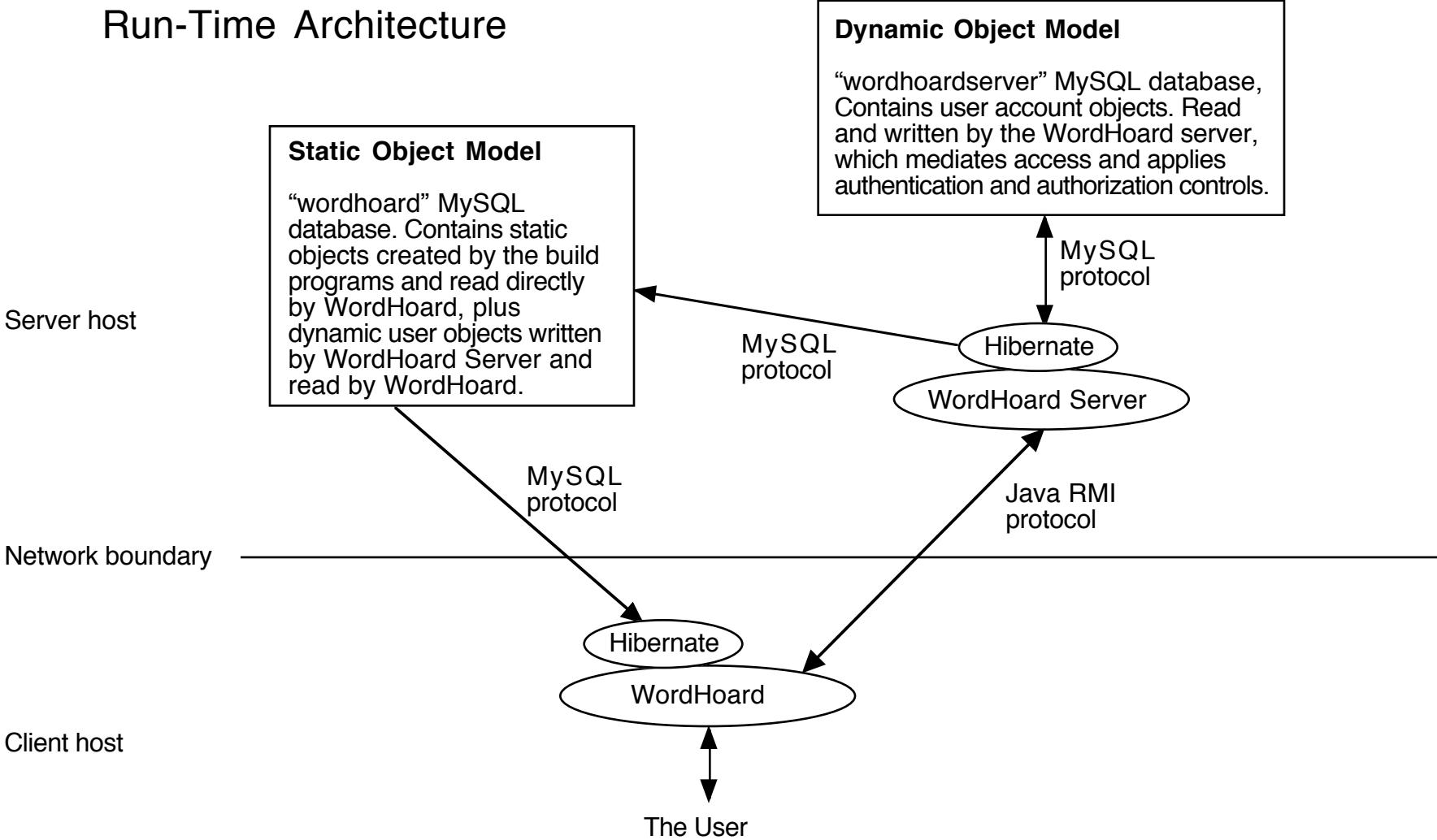


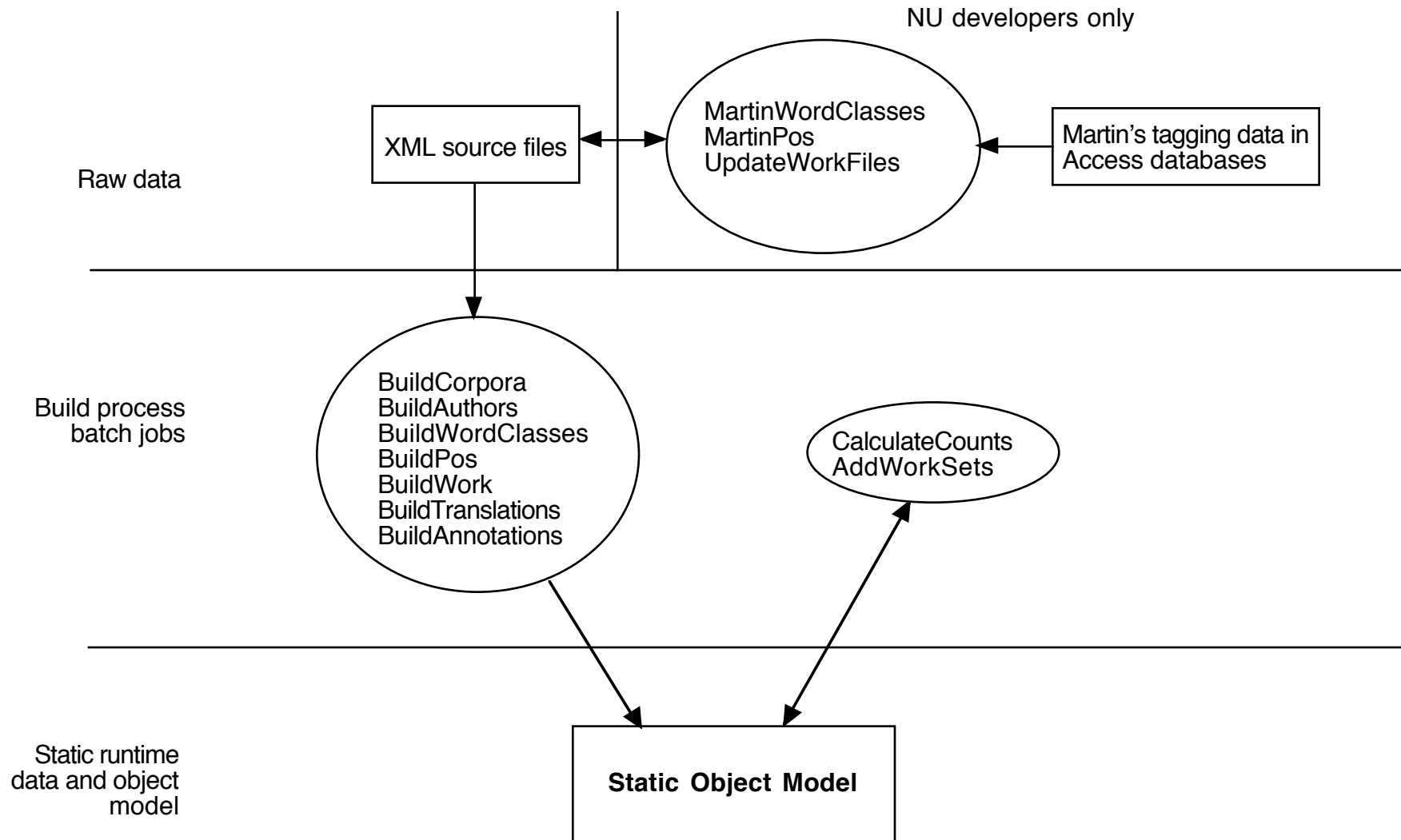
# WordHoard

jln 10/02/07

## Run-Time Architecture



# Build Programs



# Persistent Object Models

Managed by Hibernate/MySQL

## **Primary Keys**

All persistent objects other than those persisted as Hibernate components or as serialized blobs have a unique primary key field of type Long named "id" which is not shown in the diagrams.

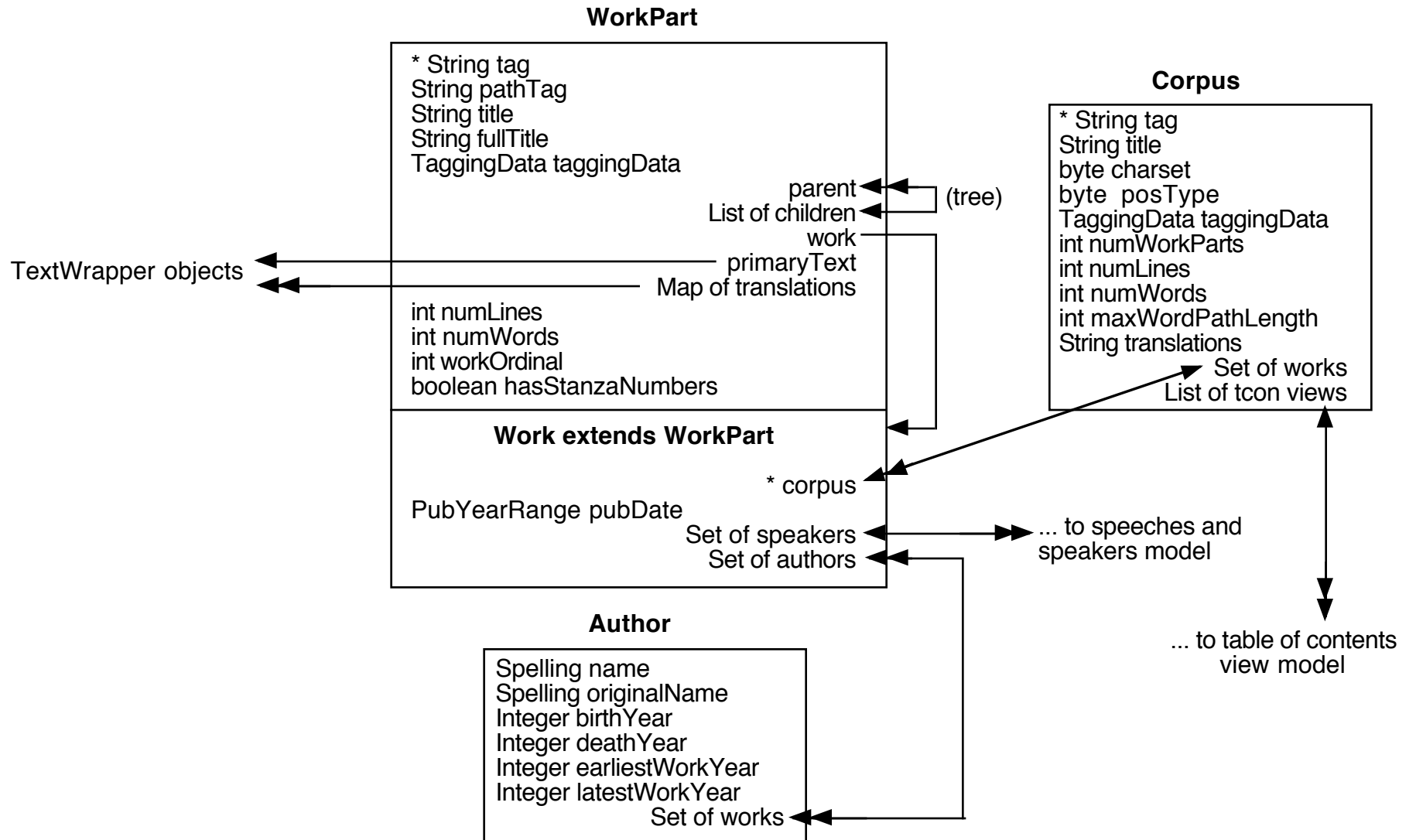
## **Indexes**

Fields marked with a \* are indexed.

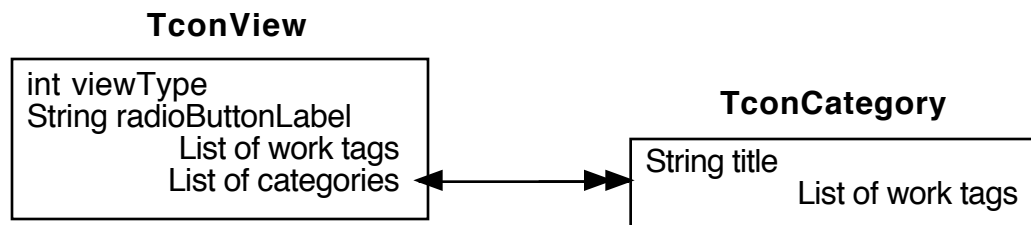
Fields marked with \*1 and \*2 are multi-column indexes. For example, in the Word class, there is a two column index on (workPart, location).

The primary key field "id" is always indexed, as are all sets, lists and maps.

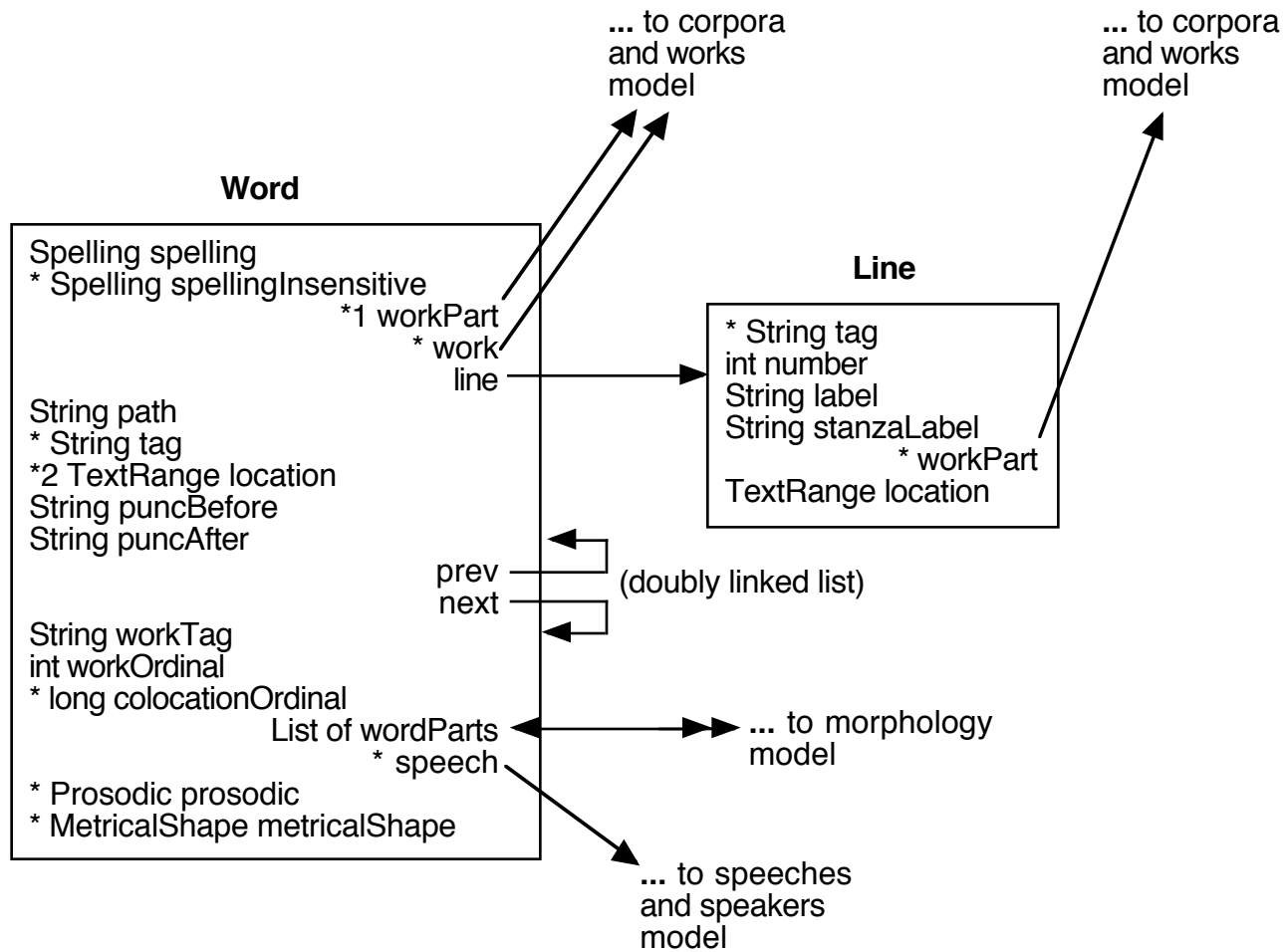
# Corpora and Works (static)



## Table of Contents Views (static)

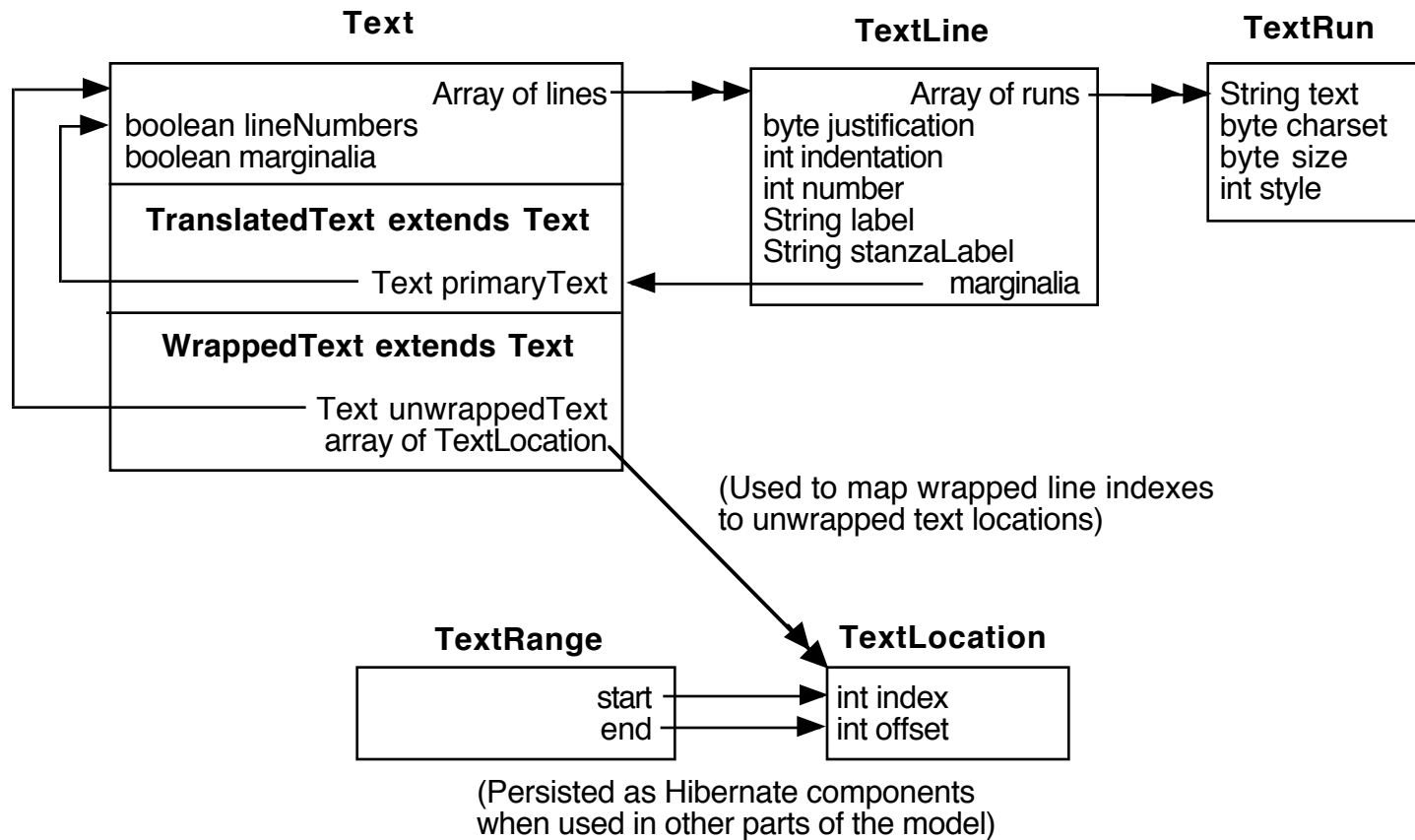


# Words and Lines (static)

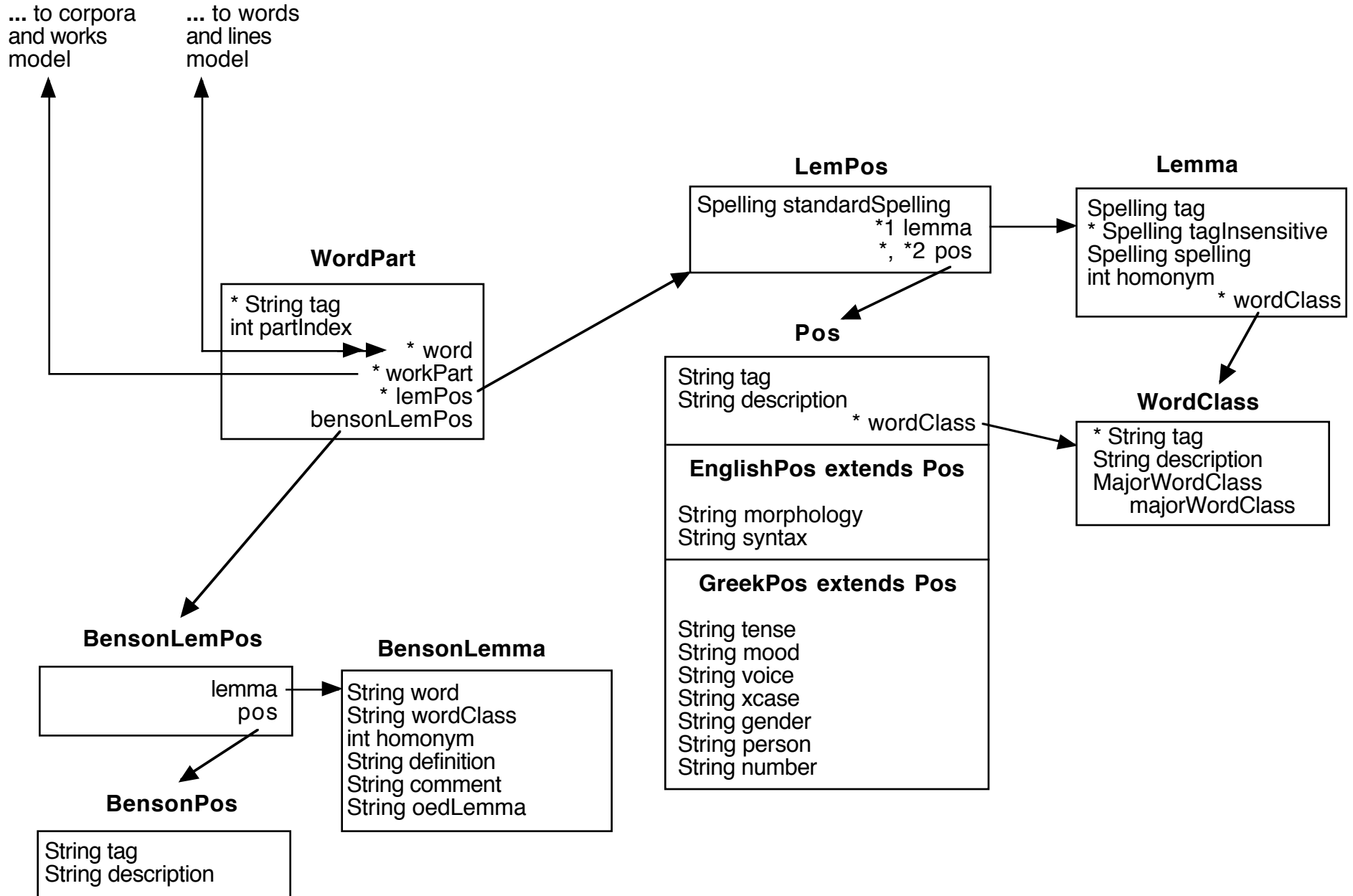


# Text (static)

Persisted as serialized blobs.

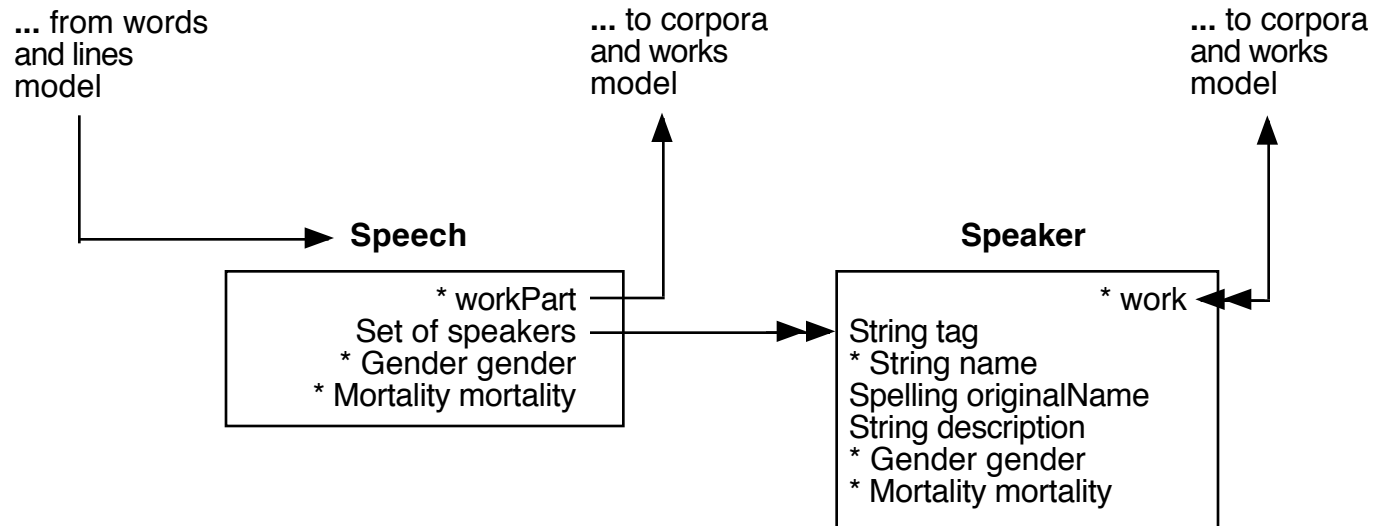


# Morphology (static)

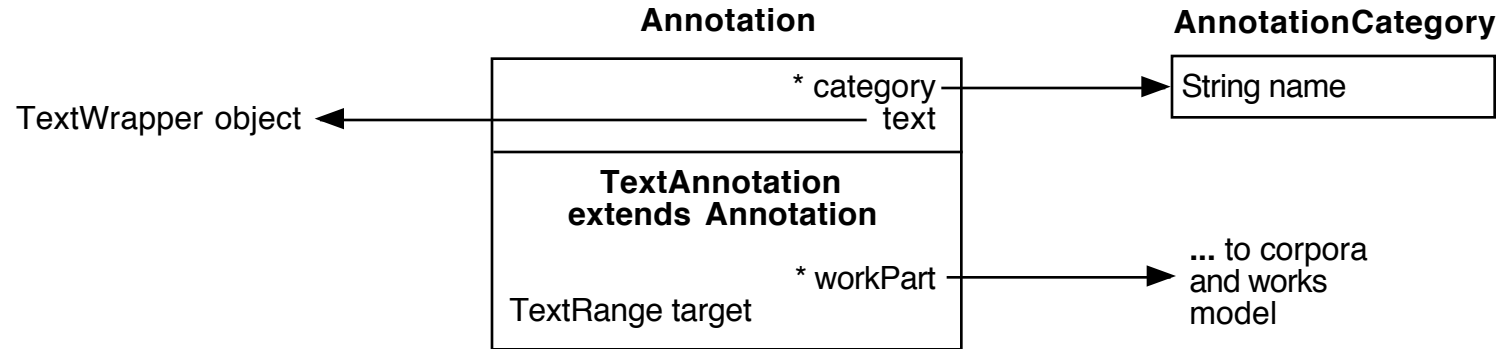




## Speeches and Speakers (static)

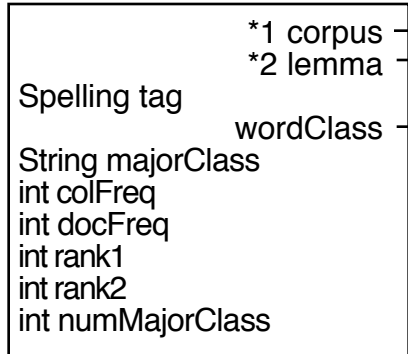


## Annotations (static)



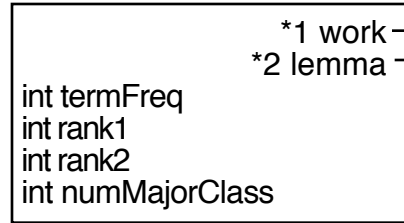
# Counts (static)

## LemmaCorpusCounts



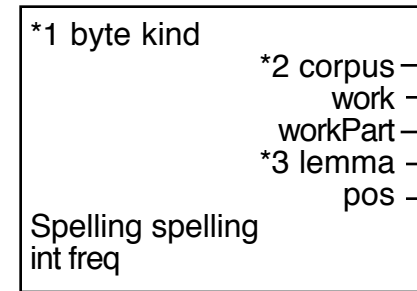
... to rest of  
object model

## LemmaWorkCounts



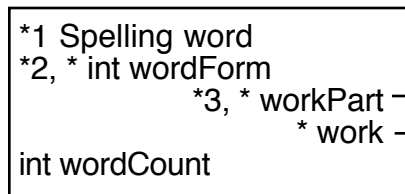
... to rest of  
object model

## LemmaPosSpellingCounts



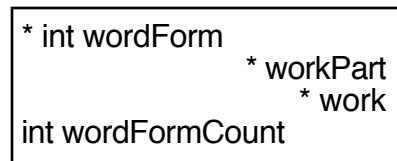
... to rest of  
object model

## WordCount



... to rest of  
object model

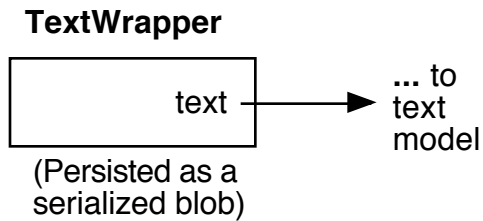
## TotalWordFormCount



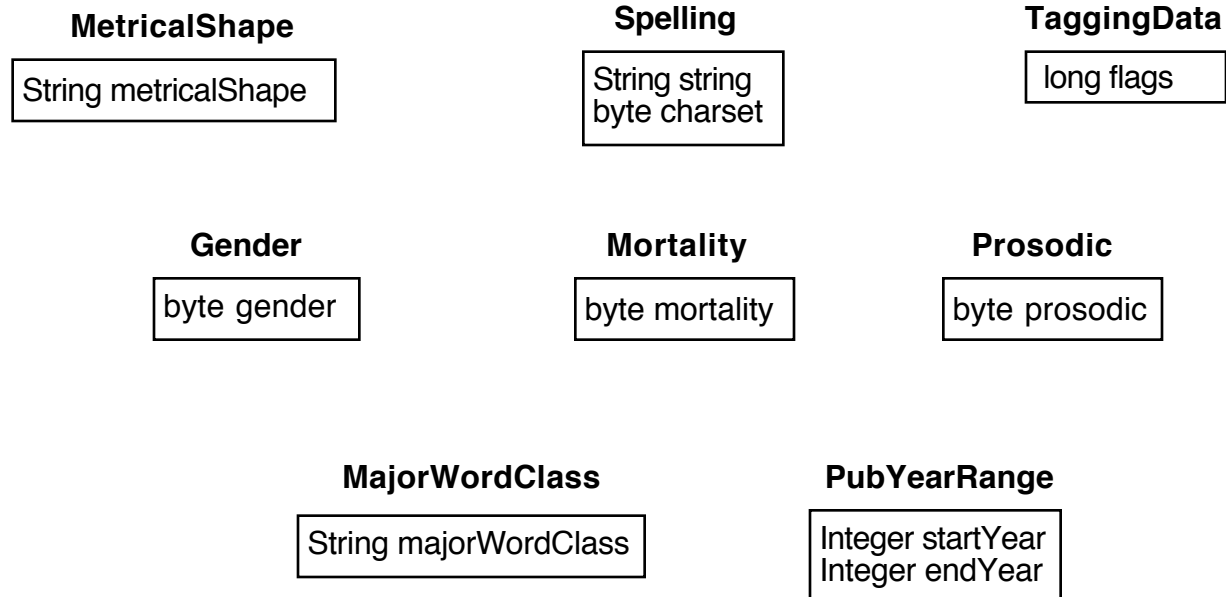
... to rest of  
object model

# Wrappers

Primitive and other “wrapped” types,.



The objects below are all persisted as Hibernate components



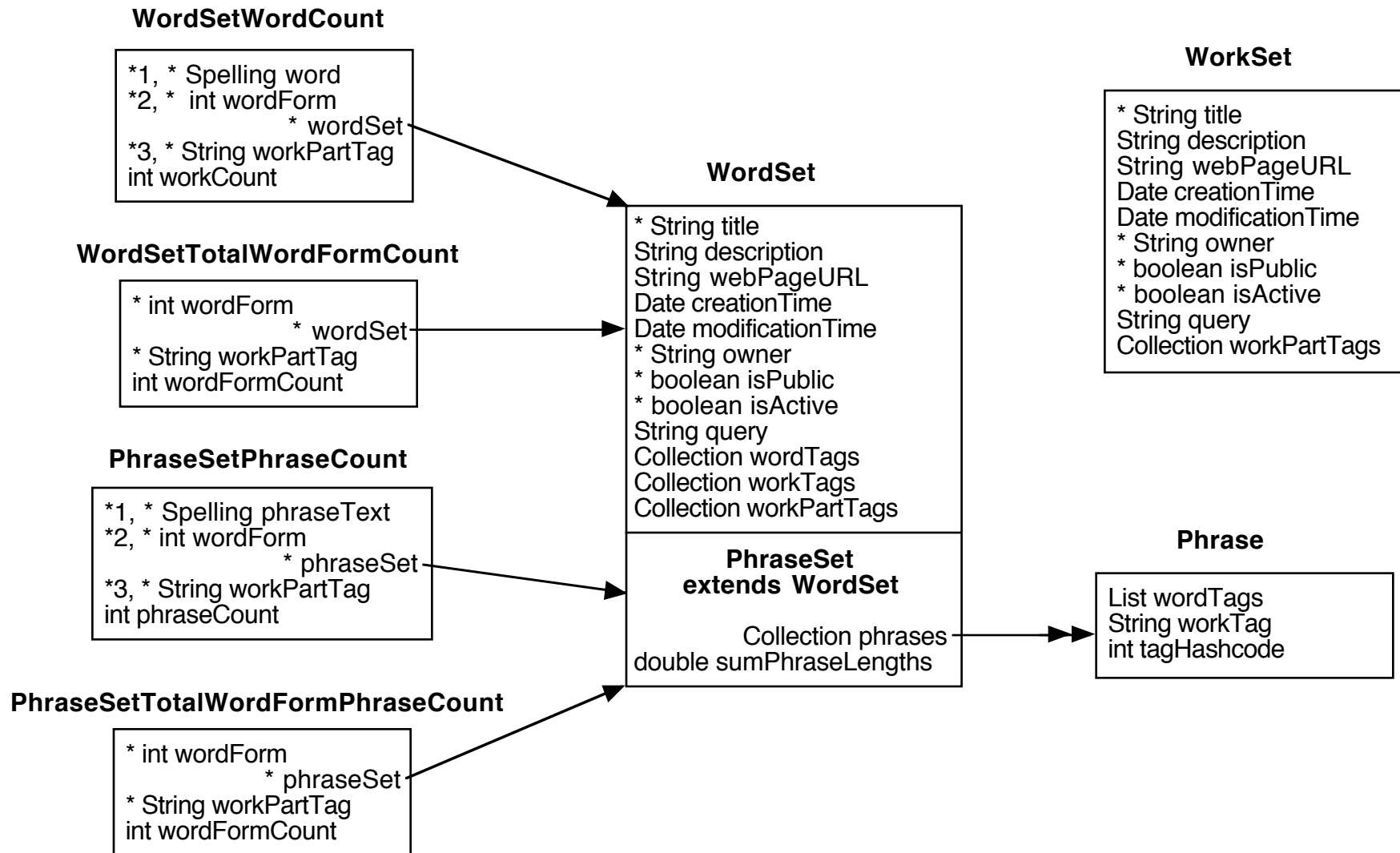
## Accounts (dynamic)

### **Account**

```
* String username  
String password  
String name  
boolean nuAccount  
boolean canManageAccounts
```

# Sets (dynamic)

Sets are dynamic, but reside in the static object model. They are written by the server, which applies authentication and authorization controls. They are read directly by the client.



## Queries (dynamic)

Queries are dynamic, but reside in the static object model. They are written by the server, which applies authentication and authorization controls. They are read directly by the client.

### WHQuery

```
* String title
String description
String webPageURL
Date creationTime
Date modificationTime
* String owner
* boolean isPublic
* boolean isActive
* int queryType
String queryText
```

# User Groups, Permissions and Annotations (dynamic)

These objects are dynamic, but reside in the static object model. They are written by the server, which applies authentication and authorization controls. They are read directly by the client.

