

# Domain analysis

## Domain Objects

Object	Description
Museum	Where dinosaurs came to live at nights. Is of a particular Theme. Also contains Articles.
Article	Some thing displayed at the Museum. Can be Damaged. Can be moved from one Museum to another. Several can be created in a batch.
MuseumTheme	A property of Museum useful to select.
ArticleStatus	A property of Article useful to select.

## Museum

Property	Data Type	Description
Name	String	Name of Museum
Address	String	Address of Museum
Theme	MuseumTheme	Theme of Museum
Articles	List	Articles in Museum

## Article

Property	Data Type	Description
Name	String	Name of Article
Description	String	Description of Article
Status	ArticleStatus	Status of Article
Owner	Id	

## MuseumTheme

{Art, Natural Science, History}

Property	Data Type	Description
ThemeId	String	Id
Description	String	Description

## ArticleStatus

{OnDisplay, Stored, Damaged, OnLoan}

Property	Data Type	Description
StatusId	String	Id
Description	String	Description

## State Transitions

State	Operation	Domain Object	Description
CREATE	POST	Museum	Creates new museum
READ	GET	Museum	Reads museum list
READ	GET/{museum_id}	Museum	Reads museum by ID
READ	GET/Themes/{theme_id}	Museum	Reads museum list by Theme ID
UPDATE	PUT/{museum_id}	Museum	Updates museum by ID
DELETE	DELETE/{museum_id}	Museum	Deletes museum by ID
CREATE	POST	Article	Creates new article
READ	GET	Article	Reads article list
READ	GET/{article_id}	Article	Reads article by ID
READ	GET/Museum/{museum_id}	Article	Reads article list by Museum ID
UPDATE	PUT/{article_id}	Article	Updates article by ID
DELETE	DELETE/{article_id}	Article	Deletes article by ID
READ	GET	MuseumTheme	Reads theme list
READ	GET/{theme_id}	MuseumTheme	Reads museum by theme ID
READ	GET	ArticleStatus	Reads status list
READ	GET/{status_id}	ArticleStatus	Reads articles by status ID