

Controller

Service

Entity

<<SessionScoped>>

LanguageController

currentLanguage : Language  
supportedLanguages : List<Language>  
locale : Locale

switchLanguage(language : Language)

<<SessionScoped>>

LoginController

currentUser : User  
password : String  
userName : String

login ( )  
logout ( )

<<ViewScoped>>

CategoryController

currentCategory : CategoryView  
childCategories : List<CategoryView>  
pages : List<PageView>  
ascendants : List<CategoryView>

addNewPage( )  
deletePage( id : int )

<<ViewScoped>>

PathController

id : int  
pathToCurrent : List<CategoryView>

<<ViewScoped>>

PageController

page : Page  
pageContent : PageContent  
labels : List<LabelView>  
labelUpdates : String (JSON)

addComponent ( type : String )  
removeComponent ( component : Component )  
bumpComponentUp ( component : Component )  
bumpComponentDown ( component : Component )  
updatePage ( )  
updateLabels ( )

<<ViewScoped>>

ModelController

allModels : List<Model>  
modelFile : Part  
newName : String

upload ( )  
removeModel ( model : Model )  
updateModel ( model : Model )

<<ViewScoped>>

ImageController

allImages : List<Image>  
imageFile : Part  
newName : String

upload ( )  
removeImage ( image : Image )  
updateImage ( image : Image )

BasicService<Entity, PK>

em : EntityManager

find ( key : PK )  
findAll ( )  
save ( entity : Entity )  
update ( entity : Entity )  
delete ( entity : Entity )

<<EJB Stateless>>

ModelService

upload ( )  
...

Other Services

<<Entity>>

User

...

<<Entity>>

Category

...

Other Entities

See ER Diagram