David Nichols 03/20/2010



GospelPreaching.com

Analysis Report

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System Requirements

Brief Overview

CFTF Publications is a small publisher of religious books, tracts, and other media related to the Church of Christ. Allen Bailey is the owner/operator. Writers or extra editors are hired or volunteer on an as-needed basis. The company's main goal is to spread the Gospel and edify existing Christians through the publishing/availability of religious materials. CFTF doesn't have any physical publishing facilities.

The system is going to be an online portal for CFTF's electronic resources (documents, audio, video, etc.) and a storefront for the company's published goods. The system will simply be known as "GospelPreaching.com". Along with the system's basic functions mentioned above, it will also provide the ability to categorize and tag electronic materials, post and respond to questions (Q&A), allow users to connect their profiles with social networking sites (Facebook, Twitter, etc.), post comments, and "like" (favorite) articles.

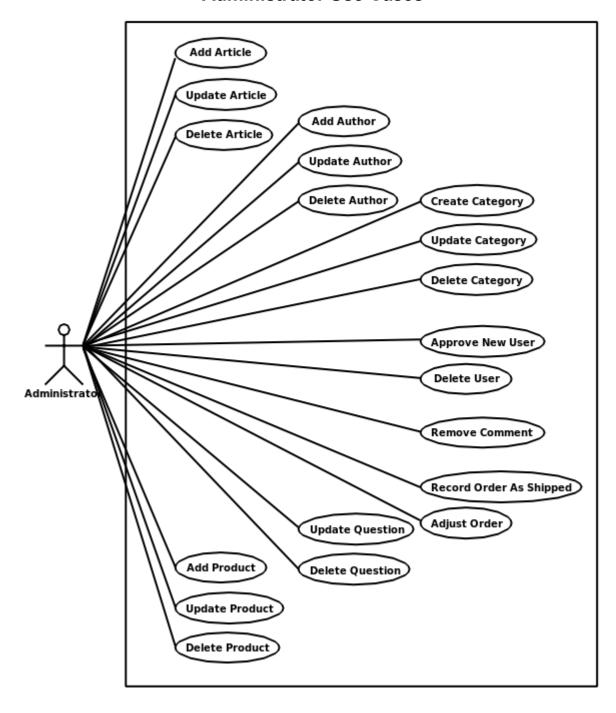
Allen Bailey would be the principle user of the site, performing administrative functions in the system. Other users would include the site visitors would be viewing the electronic resources, purchasing published goods, and utilizing the social aspects of the site. There is also the possibility of hiring or finding volunteers to perform the conversion of materials to electronic format. These people would need to have the ability to upload new materials to the site.

Event Table

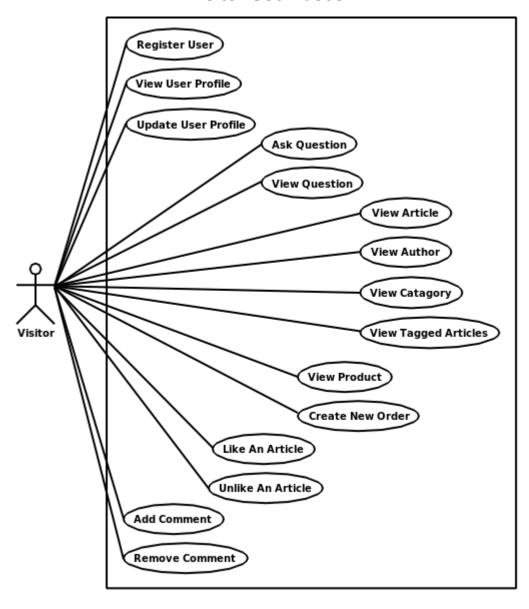
Event	Trigger	Source	Use Case	Response	Destination
Administrator adds an article	New article	Administrator	Add Article		
Visitor views an article	Article request	Visitor	View Article	Article details	Visitor
Administrator updates an article	Article update details	Administrator	Update Article		
Administrator deletes an article	Delete article request	Administrator	Delete Article		
Administrator adds an author	New author	Administrator	Add Author		
Visitor views an author	Author request	Visitor	View Author	Article report by Author	Visitor
Administrator updates an author	Author update details	Administrator	Update Author		
Administrator deletes an author	Delete author request	Administrator	Delete Author		
Administrator creates a category	New category	Administrator	Create Category		
Visitor views a category	Category request	Visitor	View Category	Article report by Category	Visitor
Administrator updates a category	Category update details	Administrator	Update Category		
Administrator deletes a category	Delete category request	Administrator	Delete Category		
			View Tagged		
Visitor views tagged articles	Article request by tag	Visitor		Report of tagged articles	Visitor
Visitor wants to register a new user				Registration confirmation	Visitor
account	New user	Visitor	Register User	New user notice	Administrator
Administrator approves a new user					
account	User account approval	Administrator		Account approval notice	Visitor
Visitor views a user profile	User profile request	Visitor		User profile details	Visitor
Visitor updates their profile	User profile update details	Visitor	Update User Profile		
Administrator or Visitor deletes a user		Administrator			
account	Delete user request	or Visitor	Delete User		
Visitor adds a new comment	New comment	Visitor	Add Comment		
Administrator or Visitor removes a		Administrator			
comment	Delete comment request	or Visitor	Remove Comment		
Visitor likes an article	Like article request	Visitor	Like An Article		
Visitor unlikes an article	Unlike article request	Visitor	Unlike An Article		
Visitor submits a question	New question	Visitor	Ask Question	New question notice	Administrator
Visitor views a question	Question request	Visitor	View Question	Question details	Visitor
Administrator updates a question	Question update details	Administrator	Update Question		
Administrator deletes a question	Delete question request	Administrator	Delete Question		
Administrator adds a new product	New product	Administrator	Add Product		
Visitor views product	Product request	Visitor	View Product	Product details	Visitor
Administrator updates a product	Product update details	Administrator	Update Product		
Administrator deletes a product	Delete product request	Administrator	Delete Product		
				Order confirmation	Visitor
Visitor places an order	New order	Visitor	Create New Order	New order notice	Administrator
Administrator records an order as being shipped	Record order as shipped request	Administrator	Record Order As Shipped	Shipping confirmation	Visitor
Administrator adjusts an order	Order update details	Administrator	Adjust Order	ppg co	
Administrator requests report of recent	The space second		,		
orders	Recent order report request	Administrator	View Recent Orders	Recent order report	Administrator

Use Case Diagrams

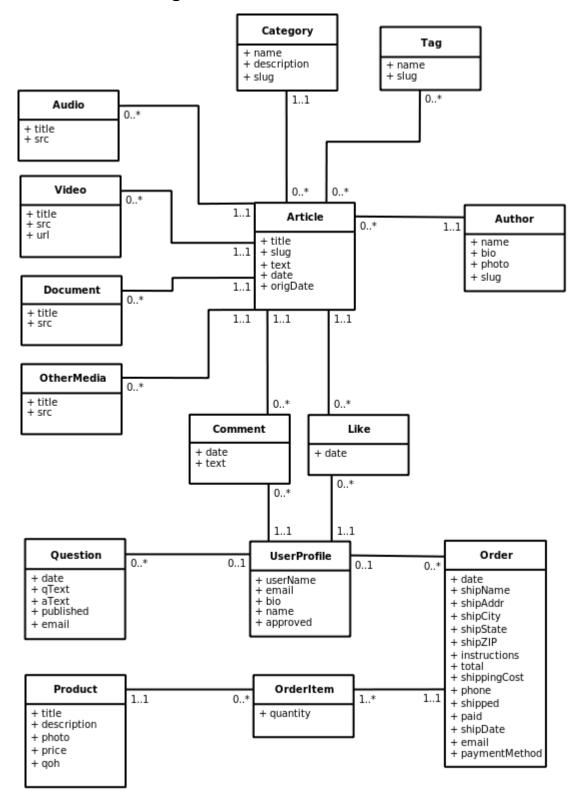
Administrator Use Cases



Visitor Use Cases



Domain Model Class Diagram



Use Case Descriptions

Fully Described Use Cases

Use Case Name:	Add Article		
Scenario:	Add article		
Triggering Event:	Administrator enters new Article details	S.	
Brief	Administrator logs on and navigates to	the Add Article page. Administrator	
Description:	fills in Article details; selects a Categor	ry, Author, and Tags; attaches new	
	media items; and submits finished Arti	cle.	
Actors:	Administrator		
Stakeholders:			
Preconditions:	Category and Author must exist.		
Postconditions:	Article and media items (Audio, Video, created. Media items must be associated with Article must be associated with Category	Article.	
Flow of	Actor	System	
Activities:	 Administrator connects to the site and navigates to the administration page. Administrator logs in. Administrator navigates to the Add Article page. Administrator fills in Article details. Administrator selects Category. Administrator selects Author. Administrator selects Tags. Administrator requests to add a new media item (Audio, Video, Document, or OtherMedia). Administrator fills in new media item details. Repeat steps 8 and 9. Administrator submits completed 	2.1 Validate administrator account. 3.1 Display new Article form. 8.1 Add a new form to the page for the new media item. 11.1 Add Article confirmation and	
Exception Conditions:	Article. 5.1 If Category does not exist yet, user can click link to open new window and add a new Category. 5.1 If Author does not exist yet, user can click link to open new window and add a new Author. 5.1 If a Tag does not exist yet, user can click link to open new window and add a new Author. 5.1 If a Tag does not exist yet, user can click link to open new window and add a new Tag.		

Use Case		
Name:	Update Article	
Scenario:	Update article	
Triggering Event:	Administrator updates Article details.	
Brief	Administrator logs on and navigates to	the Article undate page
Description:	Administrator updates Article details a	
Actors:	Administrator	
Stakeholders:		
Preconditions:	Category and Author must exist.	
Postconditions:	Article and media items (Audio, Video updated. Media items must be associated with Article associations with Catagory and	Article.
Flow of	Article associations with Category and	
	Actor	System
Activities:	 Administrator connects to the site and navigates to the administration page. Administrator logs in. Administrator finds the Article to update and selects the Update option. Administrator updates Article details. Administrator updates Category. Administrator updates Author. Administrator updates Tags. Administrator requests to add a new media item (Audio, Video, Document, or OtherMedia). Administrator fills in new media item details. Repeat steps 8 and 9. Administrator updates existing media item details. 	2.1 Validate administrator account. 3.1 Display Article update form. 8.1 Add a new form to the page for the new media item.
	13. Administrator submits updated	13.1 Update Article confirmation
	Article.	and return to administration page.
Exception	5.1 If Category does not exist yet, user can click link to open new window	
Conditions:	and add a new Category. 5.1 If Author does not exist yet, user can click link to open new window and add a new Author. 5.1 If a Tag does not exist yet, user can click link to open new window and add a new Tag.	

Use Case Name:	View Article		
Scenario:	View Article		
Triggering Event:	Visitor requests to view an Article		
Brief	Visitor locates an Article and requests	to view the Article details.	
Description:	· ·		
Actors:	Visitor		
Stakeholders:			
Preconditions:	Article must exist.		
Postconditions:			
Flow of	Actor	System	
Activities:	Visitor connects to site and navigates to the main Article list.	1.1 Display list of all Articles.	
	1a. Visitor navigates to Category, Author, or Tag view.	1a.1 Display list of Articles by Category, Author, or Tag.	
	Visitor selects Article from list to view details.	2.1 Display Article details and media item (Audio, Video,	
	2a. Visitor enters Article URL directly.	Document, OtherMedia) details/players.	
Exception Conditions:	2.1 If Article does not exist, redirect Vis	sitor to error page.	

Use Case Name:	Add Author	
Scenario:	Add Author	
Triggering Event:	Administrator enters new Author detail	S.
Brief	Administrator logs on and navigates to	the Add Author page. Administrator
Description:	fills in Author details and submits finish	ned Author details.
Actors:	Administrator	
Stakeholders:		
Preconditions:		
Postconditions:	Author must created.	
Flow of	Actor	System
Activities:	1. Administrator connects to the site	
	and navigates to the	
	administration page.	
	2. Administrator logs in.	2.1 Validate administrator account.
	3. Administrator navigates to the Add Author page.	3.1 Display new Author form.
	4. Administrator fills in Author details.	
	5. Administrator submits completed Author details.	5.1 Add Author confirmation and return to administration page.
Exception Conditions:	, identification	1 . o.c to daminion duton pago.

Use Case Name:	Create Category	
Scenario:	Create Category	
Triggering Event:	Administrator enters new Category de	tails.
Brief	Administrator logs on and navigates to	the Add Category page.
Description:	Administrator fills in Author details and	I submits finished Category details.
Actors:	Administrator	
Stakeholders:		
Preconditions:		
Postconditions:	Category must created.	
Flow of	Actor	System
Activities:	1. Administrator connects to the site	
	and navigates to the	
	administration page.	
	2. Administrator logs in.	2.1 Validate administrator account.
	3. Administrator navigates to the	3.1 Display new Category form.
	Add Category page.	
	4. Administrator fills in Category	
	details.	
	5. Administrator submits completed	5.1 Add Category confirmation and
	Category details.	return to administration page.
Exception		
Conditions:		

Use Case Name:	Register User		
Scenario:	Register User		
Triggering Event:	Visitor requests to register a new acco	ount.	
Brief	Visitor requests to register a new acco	ount and provides profile information.	
Description:			
Actors:	Visitor		
Stakeholders:	Administrator: to respond to registration request.		
Preconditions:			
Postconditions:	Unapproved User Profile created.		
Flow of	Actor	System	
Activities:	Visitor connects to site and clicks the register link.	1.1 Display User registration form.	
	2. Visitor submits registration form	2.1 Confirm successful	
	with profile information.	registration.	
		2.2 Notify Administrator of new	
		user account.	
Exception			
Conditions:			

Use Case Name:	Approve New User	
Scenario:	Approve New User	
Triggering Event:	Administrator requests user approval.	
Brief	Administrator logs onto site and appro	ves user.
Description:		
Actors:	Administrator	
Stakeholders:	Visitor: account approval notice.	
Preconditions:	Unapproved User Profile must exist.	
Postconditions:	User Profile updated with approved status.	
Flow of	Actor	System
Activities:	Administrator connects to site	
	and navigates to the	
	administration page.	
	2. Administrator logs in.	2.1 Validate administrator account.
	3. Administrator navigates to the	
	user approval page.	4.4.1
	4. Administrator requests approval	4.1 User approval confirmation and
	of User Profile.	return to administration page.
Exception	4.1 If Administrator decides to not app	rove user profile, it can be deleted
Conditions:	instead.	

Use Case Name:	Update User Profile	
Scenario:	Update User Profile	
Triggering Event:	Visitor updates User Profile details.	
Brief	Visitor logs on and navigates to the Us	· · · ·
Description:	updates User Profile details and subm	its finished details.
Actors:	Visitor	
Stakeholders:		
Preconditions:	User Profile must exist.	
Postconditions:	User Profile must be updated.	
Flow of	Actor	System
Activities:	Visitor connects to site and logs in.	1.1 Validate user account.
	2. Visitor navigates to the profile update page.3. Visitor updates User Profile details.	2.1 Display User Profile update form.
	4. Visitor submits updated User Profile.	4.1 User Profile update confirmation and return to User Profile page.
Exception		
Conditions:		

Use Case Name:	Add Comment			
Scenario:	Add Comment			
Triggering Event:	Visitor creates new Comment.			
Brief	Visitor logs onto site and navigates to	an Article. Visitor submits Comment		
Description:	text using new Comment form.			
Actors:	Visitor			
Stakeholders:				
Preconditions:	Article must exist.			
Postconditions:	Comment must be created and associated to Article.			
Flow of	Actor System			
Activities:	Visitor connects to site and logs I.1 Validate user account. in.			
	2. Visitor navigates to an Article. 2.1 Display Article details and n Comment form.			
	3. Visitor submits new Comment details. 3.1 Add Comment confirmation.			
Exception				
Conditions:				

Use Case Name:	Remove Comment				
Scenario:	Remove Comment				
Triggering Event:	Visitor or Administrator requests remo	val of Comment.			
Brief	Visitor or Administrator logs onto site a	and navigates to an Article. Visitor or			
Description:	Administrator removes a Comment fro	om the Article.			
Actors:	Visitor, Administrator				
Stakeholders:					
Preconditions:	Comment must exist.				
Postconditions:	Comment must be removed.				
Flow of	Actor System				
Activities:	Visitor or Administrator connects to site and logs in. 1.1 Validate account.				
	2. Visitor or Administrator navigates to an Article. 2.1 Display Article details including existing comments.				
	3. Visitor or Administrator requests removal of Comment. 3.1a If Visitor: validate ownership of comment and confirm removal. 3.1b If Administrator: confirm removal.				
Exception					
Conditions:					

Use Case Name:	Like An Article				
Scenario:	Like An Article				
Triggering Event:	Visitor submits Like request.				
Brief	Visitor logs onto site and navigates to	an Article. Visitor requests a Like for			
Description:	the Article.				
Actors:	Visitor				
Stakeholders:					
Preconditions:	Article and User Profile must exist.				
Postconditions:	Like must be created and associated with Article and User Profile.				
Flow of	Actor	System			
Activities:	1. Visitor connects to site and logs	1.1 Validate user account.			
	in.				
	2. Visitor navigates to an Article. 2.1 Display Article details				
	3. Visitor requests a new Like 3.1 New Like confirmation.				
Exception					
Conditions:					

Use Case Name:	Unlike An Article			
Scenario:	Unlike An Article			
Triggering Event:	Visitor submits Unlike request.			
Brief	Visitor logs onto site and navigates to	an Article. Visitor requests Like for		
Description:	the Article be removed.			
Actors:	Visitor			
Stakeholders:				
Preconditions:	Article, User Profile, and Like must exist.			
Postconditions:	Like must be removed.			
Flow of	Actor	System		
Activities:	Visitor connects to site and logs in.	1.1 Validate user account.		
	2. Visitor navigates to an Article.	2.1 Display Article details		
	3. Visitor requests removal of Like for this Article. 3.1 Like removal confirmation.			
Exception				
Conditions:				

Use Case Name:	Ask Question			
Scenario:	Ask Question			
Triggering Event:	Visitor submits new Question details.			
Brief	Visitor submits a new Question and Ad	dministrator is alerted.		
Description:				
Actors:	Visitor			
Stakeholders:	Administrator: alert to respond to ques	stion.		
Preconditions:				
Postconditions:	Question is created and either has an email address or is associated with			
	a User Profile			
Flow of	Actor System			
Activities:	Visitor connects to site and logs	1.1 Validate user account.		
	in.			
	2. Visitor navigates to the Ask 2.1 Display Ask Question form.			
	Question page.			
	3. Visitor submits complete new	3.1 Question submission		
	Question details.	confirmation and return to main		
	question page.			
Exception	3.1 If Visitor did not log in under step 1, require email address field.			
Conditions:				

Use Case Name:	Update Question				
Scenario:	Update Question				
Triggering Event:	Administrator updates Question details	6.			
Brief	Administrator logs on and navigates to	the Question update page.			
Description:	Administrator updates Question details	s and submits finished Question.			
Actors:	Administrator				
Stakeholders:	Visitor: alert that question has been an	iswered.			
Preconditions:	Question must exist.				
Postconditions:	Question must be updated.				
Flow of	Actor	System			
Activities:	 Administrator connects to the site and navigates to the administration page. Administrator logs in. Administrator finds the Question to update and selects the Update option. Administrator updates Question details. 	2.1 Validate administrator account. 3.1 Display Question update form.			
	5. Administrator submits updated Question.	lated 5.1 Update Question confirmation and return to administration page. 5.2 Send notice of answered/updated question to Visitor if published.			
Exception					
Conditions:					

Use Case Name:	Add Product				
Scenario:	Add Product				
Triggering Event:	Administrator enters new Product deta	ails.			
Brief	Administrator logs on and navigates to	the Add Product page.			
Description:	Administrator fills in Product details an	d submits finished Product.			
Actors:	Administrator				
Stakeholders:					
Preconditions:					
Postconditions:	Product must be created.				
Flow of	Actor	System			
Activities:	 Administrator connects to the site and navigates to the administration page. Administrator logs in. Administrator navigates to the Add Product page. Administrator fills in Product details. Administrator submits completed Product. 	and navigates to the administration page. Administrator logs in. Administrator navigates to the Add Product page. Administrator fills in Product details. Administrator submits completed 2.1 Validate administrator account. 3.1 Display new Product form. 5.1 Add Product confirmation and			
Exception Conditions:					

Use Case					
Name:	Create New Order				
Scenario:	Create New Order				
Triggering Event:					
Brief	Visitor connects to site. Visitor selects	desired products and fills in Order			
Description:	details. Visitor is taken to payment scre				
,	submits finished Order.				
Actors:	Visitor				
Stakeholders:	Administrator: process new order.				
	Paypal: payment details.				
Preconditions:	Products must exist.				
Postconditions:	Order and Order Items must exist.				
	Order Items must be associated with C	Order.			
	User Profile, if logged in, must be asso	ciated with Order.			
	Product QOH must be updated.				
Flow of	Actor	System			
Activities:	Visitor navigates to the Product				
	page.				
	2. Visitor requests Product details. 2.1 Display product details.				
	3. Visitor requests Product be added 3.1 Product added to cart.				
	to Order.				
	4. Repeat steps 1-3.	E4 Bissle should st			
	5. Visitor clicks the checkout link to 5.1 Display checkout form.				
	finish placing Order.	ile C 1 e If Vieiten indicates no manual b			
	6. Visitor submits Order details.				
		check: inform them about check			
		policy and submit for manual			
		processing by Administrator.			
		6.1b If Visitor indicates Paypal			
		payment: redirect to Paypal			
	7 Visitor completes novement	payment screen/site.			
	7. Visitor completes payment information on Paypal site.	7.1 Paypal confirms payment receipt.			
	iniormation on Paypar site.	7.2 Paypal sends IPN message to			
		listener and payment details are			
		processed and saved.			
		7.3 If Paypal payment is			
		successful: Order is marked paid			
and Administrator is not					
Exception	7.1 If Paypal payment is not successful: Order is left marked unpaid and				
Conditions:	Administrator is notified for manual processing.				

Use Case Name:	Record Order As Shipped			
Scenario:	Record Order As Shipped			
Triggering Event:	Administrator requests to mark Order a	as shipped.		
Brief	Administrator logs onto site and marks	Order as shipped.		
Description:				
Actors:	Administrator			
Stakeholders:	Visitor: alert that order has shipped.			
Preconditions:	Order must exist.			
Postconditions:	Order must be updated with shipped status.			
Flow of	Actor	System		
Activities:	 Administrator connects to site and navigates to the administration page. Administrator logs in. Administrator navigates to the unshipped Order page. Administrator requests to mark Order as shipped 	tor connects to site and to the administration tor logs in. tor navigates to the Order page. tor requests to mark 2.1 Validate administrator account.		
Exception Conditions:				

Use Case Name: Scenario: Adjust Order Triggering Event: Administrator updates Order details. Brief Administrator logs on and navigates to the Order adjustment page.	
Scenario: Adjust Order Triggering Event: Administrator updates Order details.	
Triggering Event: Administrator updates Order details.	
Rrief Administrator logs on and navigates to the Order adjustment page	
Their Transmittation region and manigation to the Gradi adjustment page.	
Description: Administrator adjusts Order details and submits adjusted Order.	
Actors: Administrator	
Stakeholders:	
Preconditions: Order must exist.	
Postconditions: Order must be updated.	
Flow of Actor System	
Activities: 1. Administrator connects to the site and navigates to the administration page. 2. Administrator logs in. 3. Administrator finds the Order to update and selects the Update option. 4. Administrator updates Order details. 5. Administrator submits adjusted Order. 6. Administrator manually adjusts payment and notifies visitor of any changes. 2.1 Validate administrator a 3.1 Display Order update for 3.1 Order adjustment confinence and return to administration.	orm. rmation
Exception Conditions:	

Brief Use Case Descriptions

Delete Article

Administrator logs onto site and navigates to the Article page. Administrator requests to delete Article.

View Author

Visitor navigates to the Author page and requests to view Author details. System displays report of associated Articles and Author details.

Update Author

Administrator logs onto site and navigates to the Author update page. Administrator submits updated Author details.

Delete Author

Administrator logs onto site and navigates to the Author page. Administrator requests to delete Author.

View Category

Visitor navigates to the Category page and requests to view Category details. System displays report of associated Articles and Category details

Update Category

Administrator logs onto site and navigates to the Category update page. Administrator submits updated Category details.

Delete Category

Administrator logs onto site and navigates to the Category page. Administrator requests to delete Category.

View Tagged Articles

Visitor navigates to the Tag page and requests to view tagged Articles. System displays Articles associated with that Tag.

View User Profile

Visitor navigates to User page and requests to view User Profile details. System displays User Profile details.

Delete User

Administrator or Visitor logs onto site and navigates to the User Profile detail page. Administrator or Visitor requests to delete User.

View Question

Visitor navigates to Question page and requests to view Question details. System displays Question details.

View Product

Visitor navigates to Product page and requests to view Product details. System displays Product details.

Update Product

Administrator logs onto site and navigates to the Product update page. Administrator submits updated Product details.

Delete Product

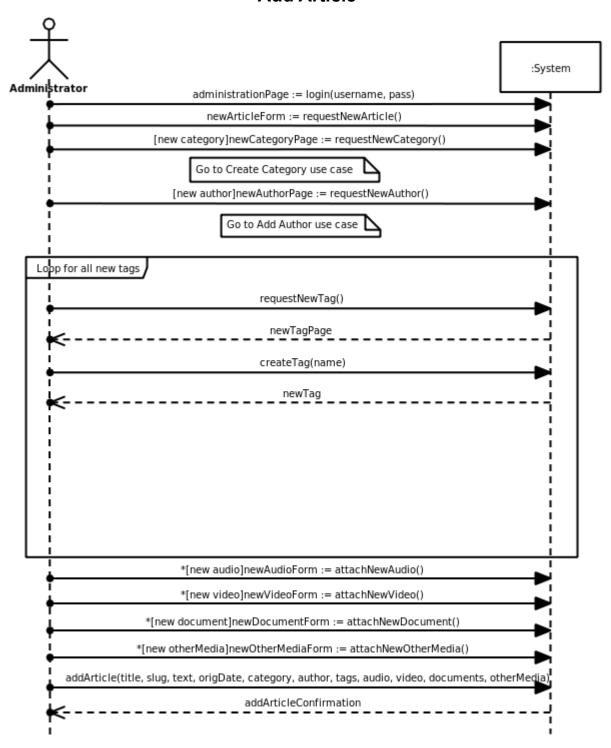
Administrator logs onto site and navigates to the Product page. Administrator requests to delete Product.

View Recent Orders

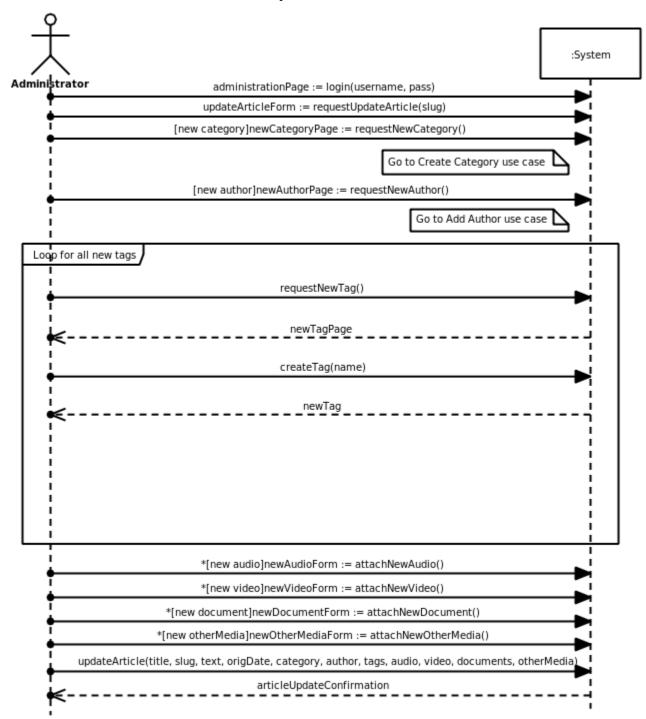
Administrator logs onto site and requests a report of all recent orders by date. System displays report.

System Sequence Diagrams

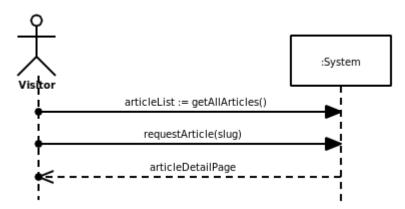
Add Article



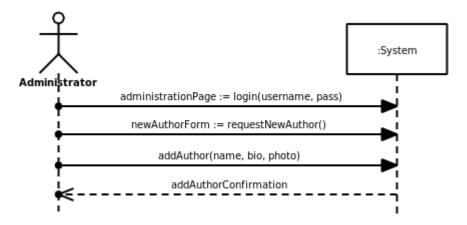
Update Article



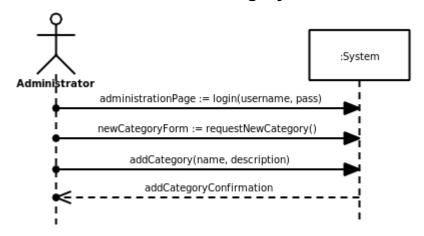
View Article



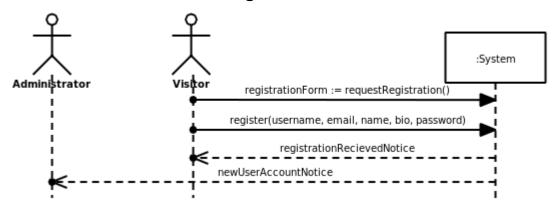
Add Author



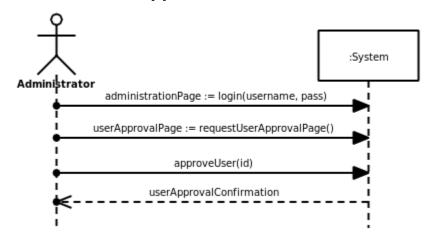
Create Category



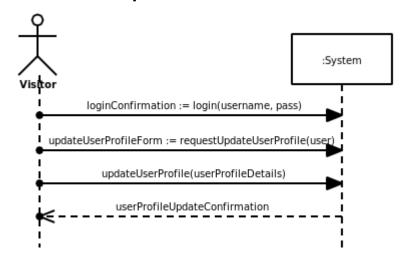
Register User



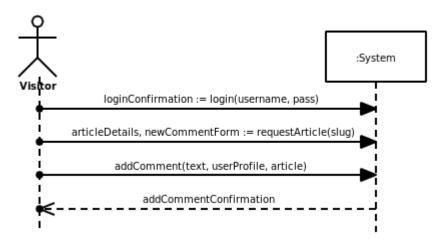
Approve New User



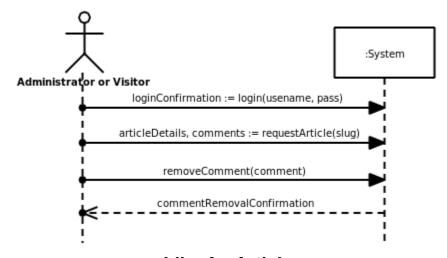
Update User Profile



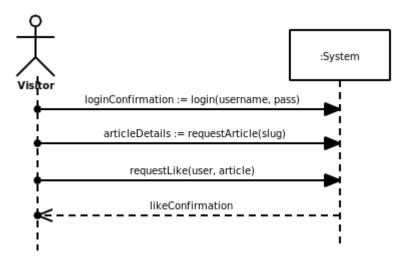
Add Comment



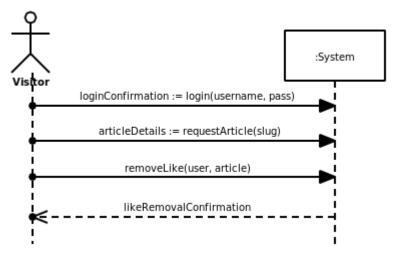
Remove Comment



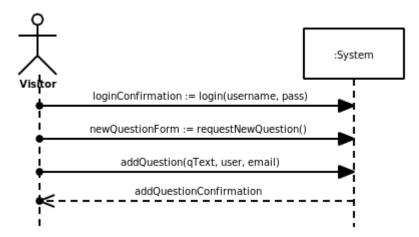
Like An Article



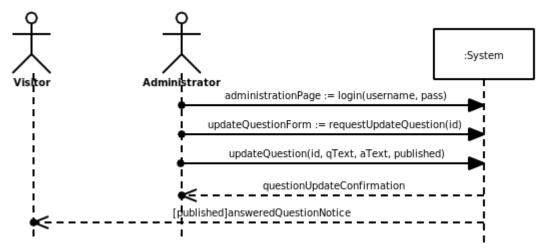
Unlike An Article



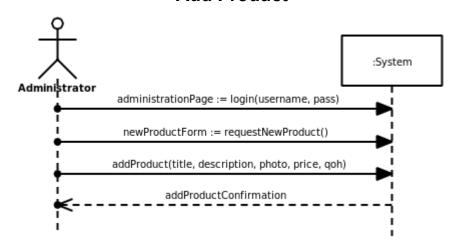
Ask Question



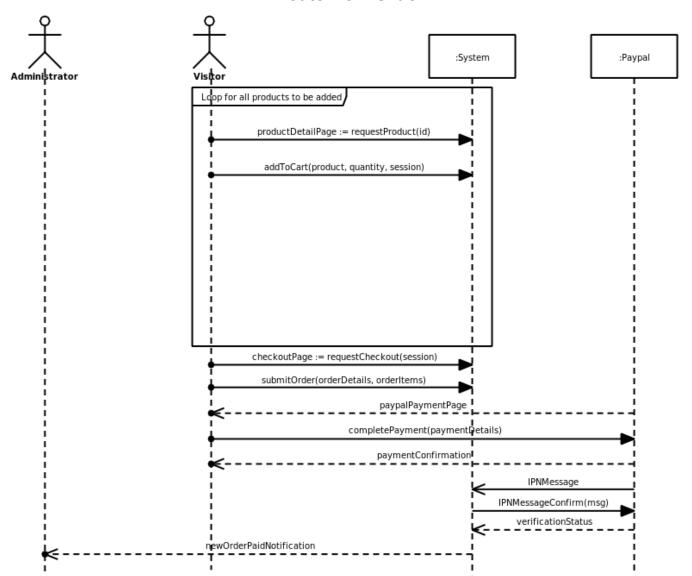
Update Question



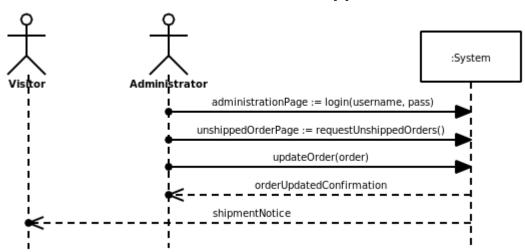
Add Product



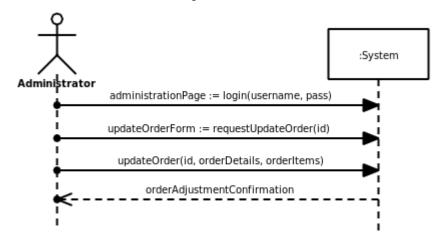
Create New Order



Record Order As Shipped



Adjust Order



Attribute Definitions

Article

Attribute	Meaning	Data Type	Rules
Title	The title of the article.	String	Required
Slug	A URL-friendly identifier for the article, based on the title.	String	Required
Text	Rich text content.	String	Optional
Date	Date the article was published on the site.	DateTime	Required, Timestamp
OrigDate	Date of the article's original publication.	Date	Required

Audio

Attribute	Meaning	Data Type	Rules
Title	The title of the audio file.	String	Required
Src	Path to the file on the server.	String	Required

Video

Attribute	Meaning	Data Type	Rules
Title	The title of the video file.	String	Required
Src	Path to the file on the server.	String	Either scr or url must be selected.
Url	URL to a YouTube video.	String	Either scr or url must be selected.

Document

Attribute	Meaning	Data Type	Rules
Title	The title of the document.	String	Required
Src	Path to the file on the server.	String	Required

OtherMedia

Attribute	Meaning	Data Type	Rules
Title	The title of the media file.	String	Required
Src	Path to the file on the server.	String	Required

Category

Attribute	Meaning	Data Type	Rules
Name	Category name or title.	String	Required
Description	Rich text description of category.	String	Optional
Slug	A URL-friendly identifier for the category, based on the name.	String	Required

Tag

Attribute	Meaning	Data Type	Rules
Name	Tag name/title.	String	Required
Slug	A URL-friendly identifier for the tag, based on the name.	String	Required

Author

Attribute	Meaning	Data Type	Rules
Name	Author's actual name.	String	Required
Bio	Brief biography in rich text.	String	Optional
Photo	Path to a photo of the author.	String	Optional
Slug	A URL-friendly identifier for the author, based on the name.	String	Required

UserProfile

Attribute	Meaning	Data Type	Rules
UserName	Username for the profile.	String	Required
Email	User's email address.	String	Required
Bio	A brief, rich text, "About Me" section.	String	Optional
Name	User's real name.	String	Required
Approved	Flag to indicate if the user is approved to post comments.	Bool	Required

Comment

Attribute	Meaning	Data Type	Rules
Date	Date the comment was posted.	DateTime	Required, Timestamp
Text	Plain text body of the comment.	String	Required

Like

Attribute	Meaning	Data Type	Rules
Date	Date the article was liked.	DateTime	Required, Timestamp

Question

Attribute	Meaning	Data Type	Rules
Date	Date the question was entered.	DateTime	Required
qText	Plain text question body.	String	Required
aText	Rich text answer body.	String	Optional until published.
published	Flag to mark Question as published, otherwise draft.	Bool	Required
email	Email address if the visitor was not a registered user.	String	Required if not associated with a UserProfile object.

Product

Attribute	Meaning	Data Type	Rules
Title	Name of product.	String	Required
Description	Rich text description of product.	String	Required
Photo	Path to photo of product.	String	Optional
Price	Product price.	Double	Required
QOH	Quantity on hand, for tracking inventory.	Int	Required

OrderItem

Attribute	Meaning	Data Type	Rules
Quantity	Quantity of product ordered.	Int	Required

Order

Attribute	Meaning	Data Type	Rules
Date	Date order was placed.	DateTime	Required, Timestamp
Email	Contact e-mail address for visitors not logged in.	String	Optional, Required if not associated with a user.
Phone	Contact phone number.	String	Required
ShipName	Shipping Name if not using Paypal.	String	Optional
ShipAddr	Shipping Address if not using Paypal.	String	Optional
ShipCity	Shipping City if not using Paypal.	String	Optional
ShipState	Shipping State if not using Paypal.	String	Optional
ShipZIP	Shipping ZIP code if not using Paypal.	String	Optional
Instructions	Special instructions in plain text.	String	Optional
ShippingCost	Calculated shipping cost.	Double	Required, Calculated
Total	Calculated order total.	Double	Required, Calculated
Paid	Flag to indicate if order has been paid.	Bool	Required
Shipped	Flag to indicate if order has been shipped	Bool	Required
ShipDate	Date order was shipped.	DateTime	Optional, Timestamp
PaymentMethod	Indicates what payment method was used. Currently 2 options: "Check" or "Paypal".	String	Required, "Check" or "Paypal"

Alternate Design Concepts and Recommendation

Varying the scope of the system

The scope of this system could be varied considerably. The business owner has many more modules and features he would like added on in the future. As a result, the scope could be expanded almost indefinitely. The scope could also be reduced since the e-commerce functionality is not something the client had listed as a priority.

Varying the degree of automation

The degree of automation could be changed by adding a desktop application that would help handle the conversion of various analog multimedia sources and automatically post the results to the site. The e-commerce section could become more automated by eliminating the manual processing of checks and automatically printing packing slips and printing labels. It could also be changed to require manual handling of all orders.

Varying the type of technology used

The application is currently using Django, but it could be changed to use Ruby on Rails, PHP, or ASP.NET. The application is web-based by nature, so converting it to a desktop application would not make much sense.

Varying the approach to implementation

The application could be developed as an add-on to an existing CMS platform such as Wordpress instead of creating a custom system.

Project Alternatives

- 1. Add religious discussion board and Gospel music internet radio to the scope.
- 2. Take e-commerce section out of scope.
- 3. Include desktop media conversion application.
- 4. Develop using Ruby on Rails

Recommended Alternative

I've chosen to go with this particular project scope because I feel the e-commerce section would be highly beneficial to the business and would help contribute a lot of NPV to the project. I also think that a religious discussion board and Gospel music internet radio app would expand the scope beyond what could be managed efficiently in this iteration without contributing very much of a benefit to the site's users. The desktop media conversion application would stretch the scope to much as well, with little improvement in function. I decided to go with Django instead of Ruby on Rails because I feel Django has a much richer set of platform features and I am more familiar with its use.

Design and Implementation to Date

Technology and Working Environment

The application architecture I am using is a modified version of the MVC approach to web development unique to the Django platform.

The models, or data access takes place in models.py. No SQL strings are ever directly manipulated by user created code; the Django framework handles all of that. The structure of the classes is simply defined in the model and all the SQL string conversion are taken care of automatically based on the connection settings in the main settings.py file.

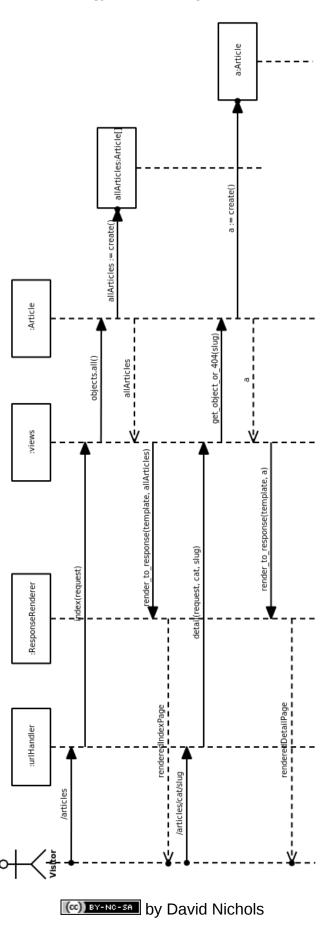
The controller code is mostly handled by the framework. However, there are configuration settings that manage the functionality of the controller layer. The most notable of these is the urls.py file which defines which view to display.

According to the Django's interpretation of MVC, the views.py file manages the view layer. This interpretation defines the view layer as making the decision of *what* to display, instead of *how* to display it. This logic would traditionally be found in the controller layer in other MVC frameworks, which is one area where Django differs.

The final piece of the puzzle is the template system. The templates define *how* the information is to be displayed, and consist of HTML files with template tags. However, Django does not consider these to be part of any of the three layers.

The code for the system will strongly object-oriented and dynamic thanks to the Python language.

I've provided a sequence diagram for the View Article use case to illustrate this structure as well as possible.



Implementation to Date

Use Cases Implemented

- 1. Add Article
- 2. View Article
- 3. Update Article
- 4. Delete Article
- 5. Add Author
- 6. Update Author
- 7. Delete Author
- 8. Create Category
- 9. View Category
- 10. Update Category
- 11. Delete Category

Example Implementation

View Article Use Case



Gospel Preaching.com

Articles

Articles Q & A NT Reading Contact Us

Some articles.		
<u>Title</u> <u>Author</u>	<u>Date</u>	<u>Original Date</u>
Third Test	02/10/2010	02/10/2010

David Nichols	03/18/2010	03/18/2010	
Another test Article David Nichols	03/18/2010	03/18/2010	
<u>Test Article</u> David Nichols	03/18/2010	03/18/2010	

Article Index Page

Category Available Media



Gospel Preaching.com

Articles Q & A NT Reading News Contact Us

Test Article

Catagory:

Date Uploaded: 03/18/10
Original Date: 03/18/10
Author: David Nichols

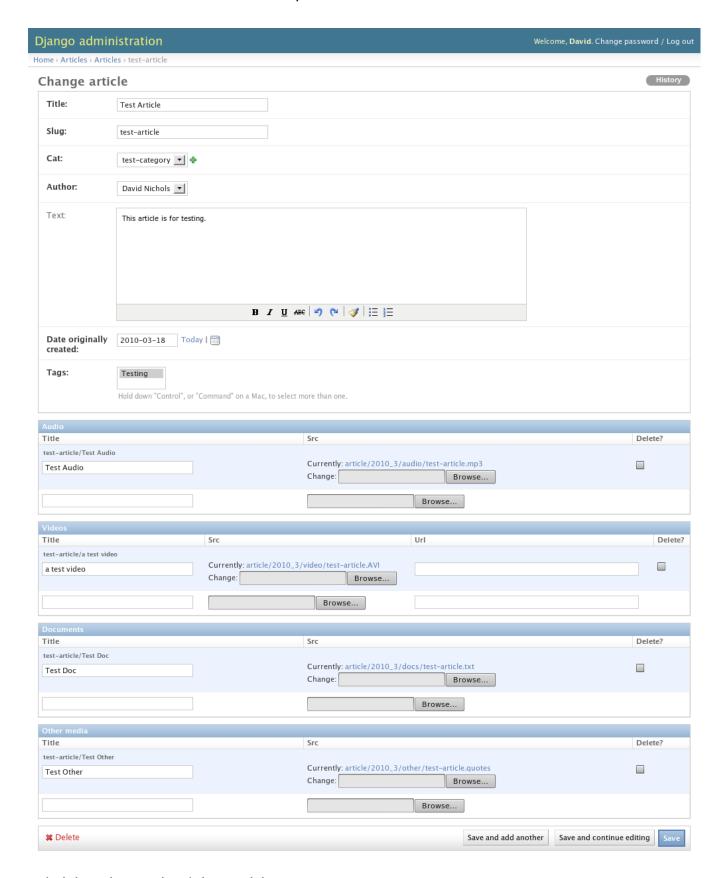
This article is for testing.

udio
est Audio
ownload
'ideo
test video
<u>ownload</u>
ocument
est Doc
<u>ownload</u>
other Media
est Other
<u>ownload</u>

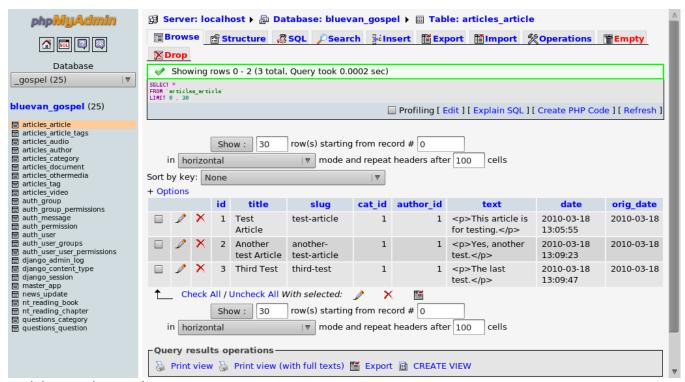
Article Detail Page



Administration Page Article List



Administration Update/View Article



Article Database View

See Appendex A for code excerpts for this use case. Due to the nature of the Django framework, the models.py file serves as the database schema.

Initial Menu Hierarchy

- Articles
 - Categories
 - Tags
 - Authors
- Questions and Answers
 - Ask a Question
- Users
- Book Store
 - Products
 - Cart
- Login

- My Profile
 - Update User Profile
 - Delete User
- Administration
 - Articles
 - Add Article
 - Update Article
 - Delete Article
 - Authors
 - Add Author
 - Update Author
 - Delete Author
 - Categories
 - Create Category
 - Update Category
 - Delete Category
 - Users
 - Unapproved Users
 - Delete User
 - Questions
 - Update Question
 - Delete Question
 - Products
 - Add Product
 - Update Product
 - Delete Product
 - Orders
 - Unshipped Orders
 - Adjust Order
 - Recent Orders

Report Samples

Article Report by Category



Gospel Preaching.com

Articles Q & A NT Reading News Contact Us

Test Category

This category is for testing.

<u>Title</u> <u>Author</u>	<u>Date</u>	Original Date	Available Media
Third Test David Nichols	03/18/2010	03/18/2010	
Another test Article David Nichols	03/18/2010	03/18/2010	(4)
<u>Test Article</u> David Nichols	03/18/2010	03/18/2010	(1)

Article Report by Author



Gospel Preaching.com

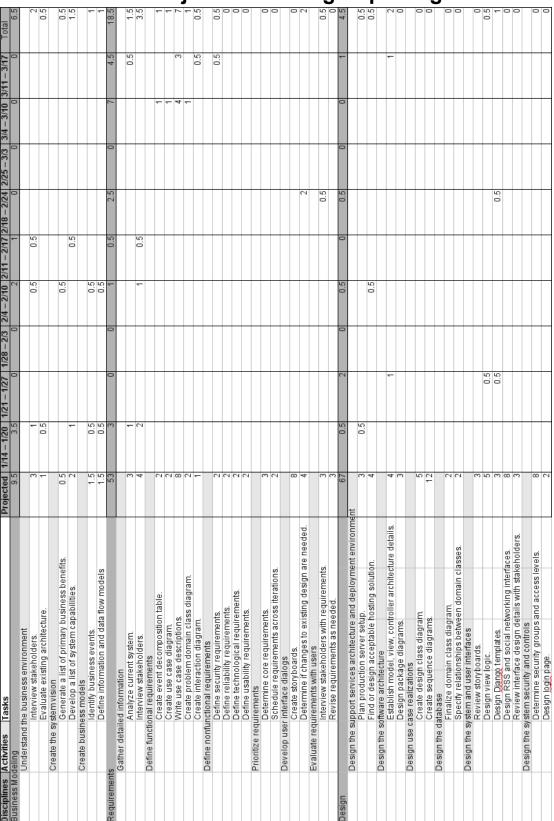
Articles
Q & A
NT Reading
News
Contact Us

David Nichols

It's me!



Project Monitoring/Reporting To Date



		4/4/4	-	Н	2/44		3/3	3/40	14 3/47	Total
Implementation	Activities Tasks	Figered 1/14 = 1/21	07/1 - 17/1	- 4/2 - 4/4 1/4 - B E	_	2/1/ 2/10 - 2/24	+1C C/C - C2/2	01/6-4	3/11	10tdl 47
IIIpiememan	Build software components	0		3.0	Þ	0	0	5	ס	11
	Build models.	20		2.5					2	'n
	Build view logic.	10	0.5						-	2.5
	Build templates.	20		-		2				3.5
	Write URL configuration files.	20		0.5						
	Write settings files.	9	0.5	9.0						
	Acquire soliware components Download and install bython libraries.	2	-							-
	Download and install Diango.	2	-							-
	Download and install any needed Django modules.	2		0.5						0.5
	Integrate software components									
	Configure deployment software on test server.	- (0.5	i c		0.5				-
i i	Deploy full system on test server.		c	6.0	c	0	c		c	
lesting	O office of a contract training to contract	40 0	o	D	0	0	D	О	O	0
	Define and conduct unit testing	LC.								0
	Conduct core function unit tests.	0 40								0
	Conduct support function unit tests.	4								0
	Define and conduct integration testing									
	Define integration tests.	5								0
	Conduct integration tests.	00								0
	Deline and conduct usability testing Devices design energines against implementation	C								C
	Conduct usability testing with users	3 6								00
	Define and conduct user acceptance testing									
	Have administrators test administration functions.	10								0
	Review non-administrative functions with users.	3								0
Deployment		31 0	0	0	0	0 0	0	0	0	0
		ا عا								0
	Install and configure system software as needed.	S.								0
	Package and install components									C
	Configure system or production server.									0
	Train users	-								0
	Develop training documentation for system.	ĸ								0
	Hands-on training.	co.								0
	Convert and initialize data									
	Add initial users to system.	← ∞								00
Project Management		22.5 3.5	0	0	8.5	.2 0.2	0.2	0.2	0.2	13
	te the									
	Create initial problem domain class list.	1 0.75			0.25					•
	1	0.7			0.25					-
	Review project scope and evaluate risks and threats.	2			-					-
	Commitment of project site of	+			•					*
	Evaluate economic reasining.				-					
	Evaluate schedule feasibility	-			-					-
	Develop the project and iteration schedules				•					
	List out activity tasks.	2			2					2
	Review with Dr. Satzinger.	0.5								0
	Monitor and control the project's iterations									c
	Keep log or time spent on tasks.	0			- C	7.0 7.	0.7	0.7	0.7	7
	Create periodic reports for Ur. Sazinger.				7					3

Disciplines Activities Tasks	Projected	1/14 - 1/21	Projected 1/14 – 1/21 1/21 – 1/28 1/28 – 2/4 2/4 – 2/11 2/11 – 2/17 2/18 – 2/24 2/25 – 3/3 3/4 – 3/10 3/11 – 3/17	1/28 – 2/4	2/4 - 2/11	2/11 - 2/17	2/18 - 2/24	2/25 - 3/3	3/4 - 3/10	3/11-3/17	Total
Configuration and Change Management	8	0	2	0.25	0	0	9.0	0	0	0	2.75
Develop change control procedures											
Setup SVN procedures.	-		-								-
Develop plan for release to test & production servers.	2		_				9.0				1.5
Manage models and software components											
Update models as needed.	2										0
Keep proper, detailed revision documentation.	е			0.25							0.25
Environment	16	0.5	2	-	1	0.5	0	0	0	-	9
Select and configure the development tools											
Install python and Diango on development machine.	-		-								-
Create a SVN repository.	-		_								-
Install system software on test server.	0										0
Configure test server.	2			-							-
Tailor the UP development process											
Setup of deliverables.	С				0.5					-	1.5
Meeting with Dr Satzinger	С	0.5			0.5	0.5					1.5
Provide technical support services											
Provide support to test users.	3										0
Provide support for development environment.	3										0
Total	316	11	10.5	7.75	13	2.2	2.9	0.2	7.2	9.7	68.25

Appendix A: Code Excerpts

models.py

```
from django.db import models
from datetime import date
from tinymce import models as tinymce models
import os.path
from django.conf import settings
def get filename(instance, filename):
   split = filename.split('.')
   ext = ''.join(['.', split[len(split) - 1]])
   month = ''.join([str(date.today().year), ' ', str(date.today().month)])
   slug = instance.parent.slug
   t = (None, "audio") [isinstance(instance, Audio)]
   t = (t,"video")[isinstance(instance, Video)]
   t = (t,"docs")[isinstance(instance, Document)]
   t = (t,"other")[isinstance(instance, OtherMedia)]
   fn = ''.join(['article/', month, '/', t, '/', slug, ext])
   i = 1
   if instance.src:
      instance.src.delete()
   while True:
       if os.path.exists(''.join([settings.MEDIA ROOT, fn])):
          fn = ''.join(['article/', month, '/', t, '/', slug, '_', str(i), ext])
           return fn
def convert youtube(url):
   sep = url.find('?v=')
   if sep > 0:
      url = 'http://www.youtube.com/v/%s' % url[sep + 3:]
   sep = url.find('&')
   if sep > 0:
      url = url[:sep]
   return url
class Category(models.Model):
   name = models.CharField(max length=200)
   slug = models.SlugField()
   description = tinymce models.HTMLField(blank=True)
   class Meta:
      verbose_name_plural = "categories"
      ordering = ['name']
   def __unicode__(self):
       return self.slug
class Author(models.Model):
   name = models.CharField(max_length=200)
   slug = models.SlugField()
   bio = tinymce models.HTMLField(blank=True)
   photo = models.FileField(upload_to=get_filename, null=True, blank=True)
   class Meta:
       verbose name plural = "authors"
       ordering = ['name']
   def __unicode__(self):
       return self.name
class Tag(models.Model):
   name = models.CharField(max length=200)
```

```
slug = models.SlugField()
   class Meta:
       verbose name plural = "tags"
       ordering = ['name']
   def __unicode__(self):
       return self.name
class Article(models.Model):
   title = models.CharField(max length=200)
   slug = models.SlugField()
   cat = models.ForeignKey('Category')
   author = models.ForeignKey('Author')
   tags = models.ManyToManyField(Tag, related name='articles')
   text = tinymce models.HTMLField(blank=True)
   date = models.DateTimeField('date published', auto now add=True)
   orig date = models.DateField('date originally created')
   class Meta:
       ordering = ['-date']
   def __unicode__(self):
       return self.sluq
class Audio (models.Model):
   parent = models.ForeignKey('Article')
   title = models.CharField(max length=200)
   src = models.FileField(upload to=get filename, null=True, blank=True)
   class Meta:
       verbose name plural = "audio"
       ordering = ['parent','title']
   def __unicode__(self):
       return ''.join([self.parent.slug, "/", self.title])
class Video(models.Model):
   parent = models.ForeignKey('Article')
   title = models.CharField(max length=200)
   src = models.FileField(upload to=get filename, null=True, blank=True)
   url = models.URLField(null=True, blank=True)
   class Meta:
       ordering = ['parent','title']
   def save(self):
       self.url = convert_youtube(self.url)
       super(Video, self).save()
   def unicode (self):
       return ''.join([self.parent.slug, "/", self.title])
class Document (models.Model):
   parent = models.ForeignKey('Article')
   title = models.CharField(max length=200)
   src = models.FileField(upload to=get filename, null=True, blank=True)
   class Meta:
      ordering = ['parent','title']
   def __unicode__(self):
       return ''.join([self.parent.slug, "/", self.title])
class OtherMedia(models.Model):
   parent = models.ForeignKey('Article')
   title = models.CharField(max length=200)
   src = models.FileField(upload to=get filename, null=True, blank=True)
   class Meta:
       verbose name plural = "other media"
       ordering = ['parent','title']
   def unicode (self):
       return ''.join([self.parent.slug, "/", self.title])
```

views.py

```
from django.shortcuts import render_to_response, get_object_or_404
from gospel preaching.articles.models import Article, Category
from django.template import RequestContext
from django.core.paginator import Paginator
from django.conf import settings
def index(request):
   order = request.GET.get('order', '-date')
   page = request.GET.get('page', 1)
   try:
      perpage = settings.ARTICLES PER PAGE
   except AttributeError:
      perpage = 10
   pager = Paginator(Article.objects.all().order_by(order), perpage)
   return render_to_response('articles/index.html', {'all_articles': pager.page(page).object_list,
'order': order, 'page': pager.page(page), 'pager': pager}, context instance =
RequestContext(request))
def detail(request, cat, slug):
   a = get object or 404(Article, slug exact=slug)
   return render to response('articles/detail.html', {'article': a}, context instance =
RequestContext(request))
def cat(request, cat):
   order = request.GET.get('order', '-date')
   page = request.GET.get('page', 1)
   try:
      perpage = settings.ARTICLES PER PAGE
   except AttributeError:
      perpage = 10
   c = get object or 404(Category, slug exact=cat)
   pager = Paginator(c.article set.all().order by(order), perpage)
   return render to response('articles/cat.html', {'cat': c, 'articles':
pager.page(page).object_list, 'order': order, 'page': pager.page(page), 'pager': pager},
context instance = RequestContext(request))
urls.py
from django.conf.urls.defaults import *
# Uncomment the next two lines to enable the admin:
# from django.contrib import admin
# admin.autodiscover()
urlpatterns = patterns('',
   # Example:
   # (r'^gospel preaching/', include('gospel preaching.foo.urls')),
   # Uncomment the admin/doc line below and add 'django.contrib.admindocs'
    # to INSTALLED_APPS to enable admin documentation:
    # (r'^admin/doc/', include('django.contrib.admindocs.urls')),
   # Uncomment the next line to enable the admin:
    \# (r'^admin/(.*)', admin.site.root),
   (r'^$', 'gospel_preaching.articles.views.index'),
   (r'^(?P<cat>[a-zA-Z0-9 -]+)/$', 'gospel preaching.articles.views.cat'),
   (r'^(?P<cat>[a-zA-Z0-9-]+)/(?P<slug>[a-zA-Z0-9-]+)/$', 'gospel preaching.articles.views.detail'),
```

admin.py

```
from gospel preaching.articles.models import Article, Audio, Video, Document, OtherMedia,
Category, Author, Tag
from django.contrib import admin
class AudioInline(admin.TabularInline):
   model = Audio
   extra = 1
class VideoInline(admin.TabularInline):
   model = Video
   extra = 1
class DocInline(admin.TabularInline):
   model = Document
   extra = 1
class OtherInline(admin.TabularInline):
   model = OtherMedia
   extra = 1
class ArticleAdmin(admin.ModelAdmin):
   prepopulated fields = {"slug": ("title",)}
   search fields = ['title', 'text']
   date hierarchy = 'date'
   list_display = ('title', 'author', 'cat', 'date', 'orig_date')
   inlines = [AudioInline, VideoInline, DocInline, OtherInline]
class CategoryAdmin(admin.ModelAdmin):
   prepopulated fields = {"slug": ("name",)}
admin.site.register(Article, ArticleAdmin)
admin.site.register(Audio)
admin.site.register(Video)
admin.site.register(Document)
admin.site.register(OtherMedia)
admin.site.register(Category, CategoryAdmin)
admin.site.register(Author)
admin.site.register(Tag)
```

index.html

```
{% extends "base.html" %}
{% load custom %}
{% block css %}
{% endblock %}
{% block script %}
{% endblock %}
{% block main %}
<h2>{{ cur_app.header }}</h2>
{{ cur_app.description|safe }}
       {% if all_articles %}
                <div class="list table">
                       <div class="list item odd">
                               <span class="list title"><a href="{% orderurl 'title' order</pre>
%}">Title</a></span>
                               <span class="list cat"><a href="{% orderurl 'cat title' order</pre>
%}">Category</a></span><br />
                               <span class="list author"><a href="{% orderurl 'author' order</pre>
%}">Author</a></span>
                               <span class="list dates media">
                                       <span class="list_date"><a href="{% orderurl 'date' order</pre>
%}">Date</a></span>
                                      <span class="list orig date"><a href="{% orderurl 'orig date' order</pre>
%}">Original Date</a></span>
                                      <span class="list media">Available Media</span>
                               </span>
                       </div>
               {% include "helpers/navigation.html" %}
               {% for article in all_articles %}
                    <div class="list_item_{% cycle 'even' 'odd' %}">
                               <span class="list title"><a href="{% url</pre>
gospel preaching.articles.views.detail article.cat.slug article.slug %}">{{ article.title }}</a>></span>
                               <span class="list cat"><a href="{% url gospel preaching.articles.views.cat</pre>
article.cat.slug %}">{{ article.cat.title }}</a></span><br/>br />
                               <span class="list_author">{{ article.author }}</span>
                               <span class="list dates media">
                                       <span class="list_date">{{ article.date|date:"m/d/Y" }}</span>
                                       <span class="list_orig_date">{{ article.orig_date|
date:"m/d/Y" }}</span>
                                      <span class="list media">
                                              <img src="{{ MEDIA URL }}img/text {{ article.text|striptags|</pre>
yesno }}.png" />
                                              <img src="{{ MEDIA URL }}img/audio {{ article.audio set.all|</pre>
yesno }}.png" />
                                              <ima
src="{{ MEDIA URL }}img/youtube {{ article.video set.all|yesno }}.png" />
                                              <img
src="{{ MEDIA URL }}img/doc {{ article.document set.all|yesno }}.png" />
                                              <img
src="{{ MEDIA URL }}img/other {{ article.othermedia set.all|yesno }}.png" />
                                       </span>
                               </span>
                       </div>
               {% endfor %}
               {% include "helpers/navigation.html" %}
                </div>
        {% else %}
                No articles are available.
        {% endif %}
{% endblock %}
```

detail.html

```
{% extends "base.html" %}
{% block css %}
<link rel="stylesheet" href="{{ MEDIA URL }}style/video.css" type="text/css" />
{% endblock %}
{% block script %}
<script type="text/javascript" src="{{ MEDIA_URL }}scripts/audio-player.js"></script>
<script type="text/javascript" src="{{ MEDIA_URL }}scripts/flowplayer-3.1.0.min.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script
<script type="text/javascript" src="{{ MEDIA URL }}scripts/flowplayer.controls-3.0.2.js"></script>
{% endblock %}
{% block main %}
             <h2>{{ article.title }}</h2>
             Catagory:<a href="{% url gospel preaching.articles.views.cat">tr>Catagory:</a>
article.cat.slug %}">{{ article.cat.title }}</a>
                          <tr>Original Date:</td>{{ article.orig date|date:"m/d/y" }}
                          Author:{{ article.author.name}} 
             {{ article.text|safe }}
             {% if article.audio_set.all %}
                           <div class="content block">
                                        <h3>Audio</h3>
                                        {% for audio in article.audio_set.all %}
                                                     <h5>{{ audio.title }}</h5>
                                                     <object id="{{ article.slug }}" height="24" width="290"</pre>
data="{{ MEDIA_URL }}scripts/player.swf" type="application/x-shockwave-flash">
                                                                  <param value="{{ MEDIA URL }}scripts/player.swf" name="movie"/>
                                                                  <param value="playerID={{ article.slug }}&soundFile={{ MEDIA URL }}</pre>
{{ audio.src }}" name="FlashVars"/>
                                                                  <param value="high" name="quality"/>
                                                                  <param value="false" name="menu"/>
                                                                  <param value="transparent" name="wmode"/>
                                                     </object><br />
                                                     <a href="{{ MEDIA_URL }}{{ audio.src }}">Download</a>
                                        {% endfor %}
                          </div>
             {% endif %}
             {% if article.video_set.all %}
                           <div class="content block">
                                        <h3>Video</h3>
                                        {% if article.video_set.all %}
                                                     {% for video in article.video_set.all %}
                                                     <h5>{{ video.title }}</h5>
                                    {% if video.url %}
                                    <object width="425" height="344" style="display:block;">
                                                                               <param name="movie"</pre>
value="{{ youtube.url }}&hl=en&fs=1&rel=0"></param>
                                                                               <param name="allowFullScreen" value="true"></param>
                                                                               <param name="allowscriptaccess" value="always"></param>
                                                                               <embed src="{{ youtube.url }}&hl=en&fs=1&rel=0"</pre>
type="application/x-shockwave-flash" allowscriptaccess="always" allowfullscreen="true" width="425"
height="344"></embed>
                                                                  </object>
                                    {% endif %}
                                    {% if video.src %}
                                                                                 href="{{ MEDIA URL }}{{ video.src }}"
                                                                                 style="display:block; width:425px; height:344px"
                                                                                 id="player{{ video.id }}">
                                                                  <!--HTML based control bar: <div id="controls{{ video.id }}"
class="video controls"></div>-->
                                                                  <script>
                                                                  < ! --
                                                                               flowplayer("player{{ video.id }}",
```

```
"{{ MEDIA URL }}scripts/flowplayer-3.1.0.swf", {
                                                      clip: {
                                                              autoPlay: false,
                                                              autoBuffering: true
                                                      },
                                                      plugins: {
                                                              Controls: {
                                                                      url:
'{{ MEDIA URL }}scripts/flowplayer.controls-3.1.0.swf',
                                                                      backgroundColor: '#000000',
                                                                      backgroundGradient: '[0.2, 1.0, 0.6]',
                                                                      buttonColor: '#707070',
                                                                      SliderColor: '#707070',
                                                                      bufferColor: '#A0A0A0',
                                                                      progressColor: '#FF0000',
                                                                      buttonOverColor: '#A0A0A0',
                                                                      VolumeSliderColor: '#707070',
                                                                      timeBgColor: '#707070',
timeColor: '#FF1010',
                                                                      tooltipColor: '#707070'
                                                              }
                                              });
                                       //-->
                                       </script>
                                       <a href="{{ MEDIA URL }}{{ video.src }}">Download</a>
                     {% endif %}
                               {% endfor %}
                       {% endif %}
               </div>
        {% endif %}
        {% if article.document_set.all %}
               <div class="content block">
                       <h3>Document</h3>
                       {% for doc in article.document_set.all %}
                               <h5>{{ doc.title }}</h5>
                               <a href="{{ MEDIA URL }}{{ doc.src }}">Download</a>
                       {% endfor %}
               </div>
        {% endif %}
       {% if article.othermedia_set.all %}
               <div class="content block";</pre>
                       <h3>Other Media</h3>
                       {% for media in article.othermedia_set.all %}
                               <h5>{{ media.title }}</h5>
                               <a href="{{ MEDIA URL }}{{ media.src }}">Download</a>
                       {% endfor %}
               </div>
       {% endif %}
{% endblock %}
```

Legal Notes



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Other Notes

I want to give credit to the amazing Django web framework and thank the amazing people that work on it. "It lets you build high-performing, elegant Web applications quickly." Please check out the Django project's site: http://www.djangoproject.com/>

