Choose options for your new project:

Product Name	Estimator
Company Identifier	com.champlainarts
Bundle Identifier	com.champlainarts.Estimator
Class Prefix	Hour22_
App Store Category	Productivity \$
	Create Document-Based Application
Document Extension	testdoc
	🗹 Use Core Data
	Use Automatic Reference Counting
	Include Unit Tests
	Include Spotlight Importer

Figure 22.1 Create a new project.

• •	📩 Estimator.xcc	odeproj — 🗊 Hour22_Document.xcdatamodel	R <u>1</u>
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	🔛 🔍 🔺 🕨 🔀 Estimator 🤇 🦲 Es	ti / P Ho / Mourzz_Document.xcdatamodel / Custome	
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Hour22_Document.m	FETCH REQUESTS	S city String \$	Abstract Entity
A Hour22_Document.xib		customerSince Integer 16 semail String	Parent Entity No Parent Entity \$
A MainMenu.xib	CONFIGURATIONS	S name String +	Indexes
Hour22_Document.xcdatamodeld	G Default	S state String \$	indexes
Supporting Files Frameworks		S zip String \$	
Products		+ -	
		- Deletionshine	+ -
		Relationships A Destination Inverse	Vser Info
		Relationship Destination Inverse Image: Inverse state sta	Key A Value
		Jobs Job + Customer +	Ney value
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			+
		Fetched Properties	▼ Versioning
		Fetched Property Predicate	Hash Modifier Version Hash Modifier
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			Gradient Button – Intercepts mouse- down events and sends an action
			message to a target object when it's
			Rounded Rect Button - Intercepts
			mouse-down events and sends an action message to a target object
	■ ∎ ⊕ .	+	Rounded Textured Button -
+ 0 0 0	Outline Style Add Entity		St

Figure 22.2 Create the Core Data model.

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Run Stop Scher			d running Test Core Data : No Issues	Test Core Data			Editor View Organizer
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+ 0 B K (•	Outline Style Add Entity	+ - Fetched Property Fetched Property + -	ies 🔺 Predicat	e	e. Add Attribute	Editor Style	
	Add Entry				Add Attribute	cultor Style	

Figure 22.3 Make sure an attribute is not optional and has no default value.

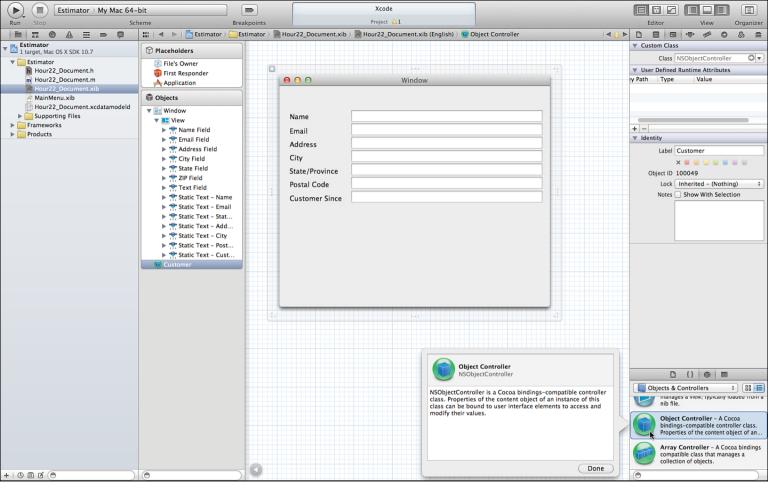


Figure 22.4 Add an object controller and label it Customer.

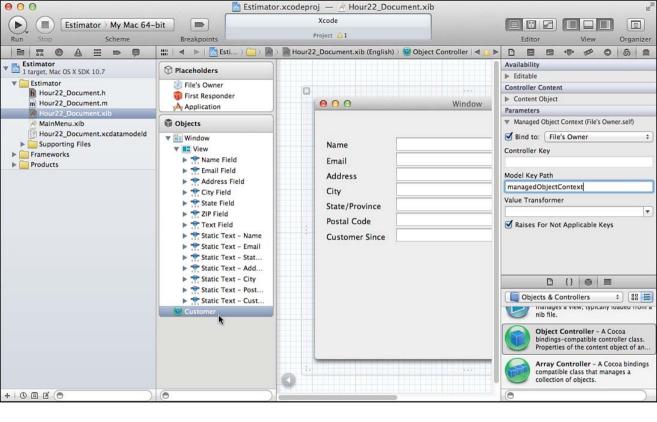


Figure 22.5

Bind the Customer object controller to managed Object Context in File's Owner.

Estimator > My Mac 64-	Estimator > My Mac 64-bit		Xcode								
Run Stop Sch	neme	Breakpoints		Project 🔒 1			Editor	View	Organizer		
	🔛 🔺 🕨 📩 Estimator 🤇	🛅 Estimator 👌 🏹 Ho	ur22_Document.xib)	Hour22_Document.xib (English) > 🛅 Wi	indow 👌 💶 View 👌 🕋 CustomerSince Field 🗌 ◀	▲ ▲ ► C		•••••	o ର ≘		
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Static Text - Pos	▼ Outlets	Outlets					No Selection Placeholder				
Static Text – Cus Customer		content	content O								
		 managedObjectContext Bindings 	managedObjectContext O			No	Not Applicable Placeholder				
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		selection.city		× Value City Field	•		Objects & Controllers 🕴 🔡 🗄				
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				CustomerSince Field			ind me.				
		selection.email		× Value Email Field	۲		Object Controller - A Cocoa bindings-compatible controller class.				
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								on of objects.			
+ 0 = 2 0	•					0	,				

Figure 22.6 Finish the bindings between the managed object context and the text fields.

00	Untitled							
	The document "Untitled" could not be saved as "jf test". customerSince is a required value. You can duplicate the document or discard your changes to close it.							
E	Discard Duplicate Cancel]						
Address		-						
City								
State/Province								
Postal Code								
	2 <u></u>							

Figure 22.7 Core Data catches the error.

000	Untitled	
Nam 🛕	The document "Untitled" could not be saved as "Untitled". Multiple validation errors occurred.	
Ema	ОК	
Address		
City		
State/Province		
Postal Code		
Customer Since		

Figure 22.8 Core Data can catch multiple errors.