INLS 672 Web Development 2

Application Design: Adding Data



Joan Boone jpboone@email.unc.edu

Slide 1

Award Winning Reads				
Browse		Add Book		Auu a Now Book
Title	Author	Category		INEW DOOK
All the Light We Cannot See		Historical		
Angle of Yaw		Award W	inning R	eads
Dancing on the Edge	_	Browse	Save Boo	bk
Delights & Shadows	_			
Empire Falls	ISBN			
Final Salute	Title			
Founding Brothers: A Revolutior	Author			
Generation	Publisher			
George F. Kennan: An American	L Format			
Gilead	Category			
Gulaa: A History	 Description			
list view.php				
_				
	Rating	1		add_view.php
	© Award Winning Reads			

Award Winning Reads			Save	
add_vi	ew.php Brow	se	Book	New Book
ISBN	978-0374103118			
Title	Prosperity: One Family and the F	racturing of Ameri	са	
Author	Eliza Griswold			
Publisher	rrar, Straus and Giroux		Award Win	nning Reads
Format	Hardcover		_	
Category	History		Bro	owse
Description The story of the impact of the entropy town at the edge of Appalachia a transformation from a struggling unlikely activist.	ISBN	978-0374103118		
	Title	Amity and Prosperity: One	Family and the Fracturing of America	
			Eliza Griswold	
Rating	5	Publisher	Farrar, Straus and Giroux	
	©	Format	Hardcover	<pre>detail_view.php</pre>
		Category	History	
		Description	The story of the impact of edge of Appalachia and one struggling single parent to	the energy boom on a small town at the e womans transformation from a an unlikely activist.
After selecting 'Save Book', display the book details		Rating	5	
			© Award W	Vinning Reads

Adding a New Book: what changes are needed?



Adding a New Book: Update list_view.php

Award Winning Reads			
Browse	م Add E	Book	
Title	Author	Category	
All the Light We Cannot See	Anthony Doerr	Historical Fiction	
Angle of Yaw	Ben Lerner	Poetry	
Dancing on the Edge	Han Nolan	Children	
Delights & Shadows	Ted Kooser	Poetry	
Empire Falls	Richard Russo	Novel	
Final Salute	Jim Sheeler	History	
Founding Brothers: A Revolutionary Generation	Joseph J. Ellis	History	
George F. Kennan: An American Life	John Lewis Gaddis	Biography	
Gilead	Marilynne Robinson	Novel	
Gulaa: A History	Anne Applebaum	History	

In list_view.php add a button that will display the add_view.php when selected.

Adding a New Book: Create a new view, add view.php

```
<form method="post">
<section id="controls">
   <input class="button" type="submit"</pre>
      name="browse books" value="Browse">
   <input class="button" type="submit"</pre>
      name="save new book" value="Save Book">
</section>
<section id="input">
   <label>ISBN</label><input type="text"
      name="isbn" size=20>
   <label>Title</label><input type="text"
      name="title" size=50>
```

</section> </form>

When Save Book is selected, use SQL INSERT to add the new book.

INSERT INTO BOOK VALUES ('978-0374103118', 'Amity and Prosperity: One Family and the Fracturing of America', 'Eliza Griswold', 'Farrar, Straus and Giroux', 'Hardcover', 'History', 'The story of the impace of the energy....', '5')

Award Winning Reads

		Browse	Save Book
ISBN	978-0374103118		
Title	Prosperity: One Family an	nd the Fractu	iring of America
Author	Eliza Griswold		
Publisher	rrar, Straus and Giroux		
Format	Hardcover		
Category	History		
Description	The story of the impact of town at the edge of Appa transformation from a str unlikely activist.	f the energy lachia and o uggling sing	boom on a small ne woman's le parent to an
Rating	5		
		© Awa	rd Winning Reads

. . .

Adding a New Book: <u>Model</u> changes in database_library.php

```
function save new book() {
  global $db;
  // print r($ POST);
  $query = "INSERT INTO BOOK VALUES ('" . $ POST['isbn'] . "','" .
              $ POST['title'] . "','" . $ POST['author'] . "','" .
              $ POST['publisher'] . "','" . $ POST['format'] . "','" .
              $_POST['category'] . "','" . $_POST['description'] . "','" .
              $ POST['rating'] . "')" ;
  try {
     $statement = $db->prepare($query);
     $statement->execute(); // true if successful, otherwise false
     $statement->closeCursor();
     return TRUE;
   }
  catch (PDOException $e) {
     $error message = $e->getMessage();
     echo "SQL error: Insert Book failed, $error message ";
     return FALSE;
   }
```

}

Adding a New Book: <u>Controller</u> changes in index.php

User <u>selects the Add Book button</u> on <u>list_view.php</u>

• If the Add Book button selected, include ('add_view.php'), to display the view to add the new book details.

User selects the Save Book button after filling the in book details

- If the Save Book button selected, call save_new_book()
- If the save is successful then, call get_book(\$isbn) to get the book details, and include('detail_view.php') to display them.
 Something like this:

```
elseif
(isset($_POST['save_new_book'])) {
   $successful_save = save_new_book();
   if ($successful_save) {
     $isbn = $_POST['isbn'];
     $result = get_book($isbn);
     include('detail_view.php');
}
```

Practice: Include the Add Book feature to your application

list_view.php

		No	to: this will be part of	
Award Winning Reads		Note. this will be part of		
Browse	Add Book	- Assignment 3		
Title Author	Category			
All the Light We Cannot See Anthony I	Doerr Historical G	add_view.pl	1p	
Angle of Yaw	Award Win	ning Reads		
Dancing on the Edge				
Delights & Shadows	Browse	Save Book		
ISBN	978-0374103118		detail_view.php	
Title	Prosperity: One Family and the Fracturing	of America	Award Winning Reads	
Author	Eliza Griswold			
Publisher	rrar, Straus and Giroux		Browse	
Format	Hardcover	ISBN	978-0374103118	
Category	History	Title	Amity and Prosperity: One Family and the Fracturing of America	
Description	The story of the impact of the energy boo	m on a small Author	Eliza Griswold	
	transformation from a struggling single pa unlikely activist.	arent to an Publisher	Farrar, Straus and Giroux	
			Hardcover	
Rating	5	Category	History	
	© Award Wi	inning Reads	The story of the impact of the energy boom on a small town at the edge of Appalachia and one womans transformation from a struggling single parent to an unlikely activist.	
		Rating	5	

© Award Winning Reads

Slide 9