

INLS 672

Web Development 2

Application Design: User Interface and Database Enhancements



UNC
SCHOOL OF INFORMATION
AND LIBRARY SCIENCE

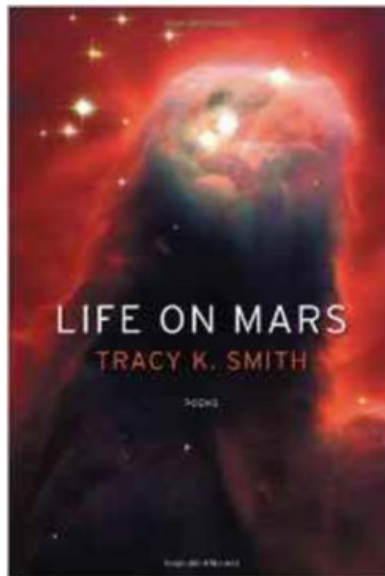
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Enhance User Interface with Book Cover Image

Award Winning Reads

Browse



ISBN 978-1555975845

Title Life on Mars

Author Tracy K. Smith

Publisher Graywolf Press

Format Paperback

Category Poetry

Rating 3

Description With allusions to David Bowie and interplanetary travel, *Life on Mars* imagines a soundtrack for the universe to accompany the discoveries, failures, and oddities of human existence.

Adding Book Cover Image: what changes are needed?

Modify `save_new_book()`
to include the name of the
book cover image file

Model
`database_library.php`
`books.db`
`images folder`



Add a new column to BOOK table to
specify the cover image file name.
Add a folder of images for all books.

HTTP
request

Controller
`index.php`

No changes



HTTP
response

View
`header.php`
`footer.php`
`list_view.php`
`detail_view.php`
`add_view.php`
`style.css`

Modify `detail_view` to
include book cover image

Modify `add_view` to
include input field for
cover image file name

Adding Book Cover Image: Model Changes

- Add a folder, named **images**, that contains the image files
- Updated version of **books.db** that contains the new column, Cover, with values for the image file names

	ISBN	Title ▼ ¹	Author	Publisher	Format	Category	Description	Rating	Cover
	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	978-1476746586	All the Light We Cannot See	Anthony Doerr	Scribner	eBook	Historical Fiction	From the highl...	5	AllTheLight.png
2	978-1556592461	Angle of Yaw	Ben Lerner	Copper Canyon Press	Audio	Poetry	In his bold ...	5	AngleOfYaw.png
3	978-0141302034	Dancing on the Edge	Han Nolan	Puffin	eBook	Children	Miracle McCloy ...	4	DancingOnTheEdge.png
4	978-1556592010	Delights & Shadows	Ted Kooser	Vintage	eBook	Poetry	As Poet Laurea...	4	DelightsAndShadows.png
5	978-0375726408	Empire Falls	Richard Russo	Vintage	eBook	Novel	Richard Russo...	3	EmpireFalls.png
6	978-1594201653	Final Salute	Jim Sheeler	Penguin Press	Paperback	History	In Final Salute,...	4	FinalSalute.png
7	978-0375705243	Founding Brothers: A ...	Joseph J. Ellis	Vintage	Hardcover	History	In this landmar...	4	FoundingBrothers.png
8	978-1594203121	George F. Kennan: An ...	John Lewis Gaddis	Penguin Press HC	eBook	Biography	In the late ...	4	GeorgeKennan.png
9	978-0312424404	Gilead	Marilynne Robinson	Picador	Hardcover	Novel	An intimate tal...	5	Gilead.png

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Go to: 1

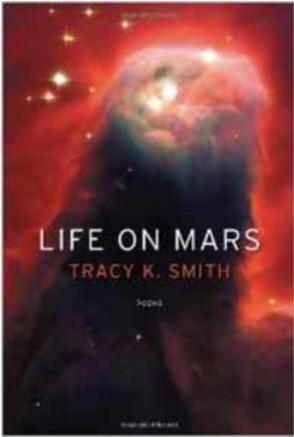
Modify **save_new_book()** to include the cover image file name:

```
$query = "INSERT INTO BOOK VALUES ('" . trim($_POST['isbn']) . "', '" .  
trim($_POST['title']) . "', '" . trim($_POST['author']) . "', '" .  
trim($_POST['publisher']) . "... . trim($_POST['cover']) . "'" ;
```

Adding Book Cover Image: Modify `detail_view`

Award Winning Reads

Browse



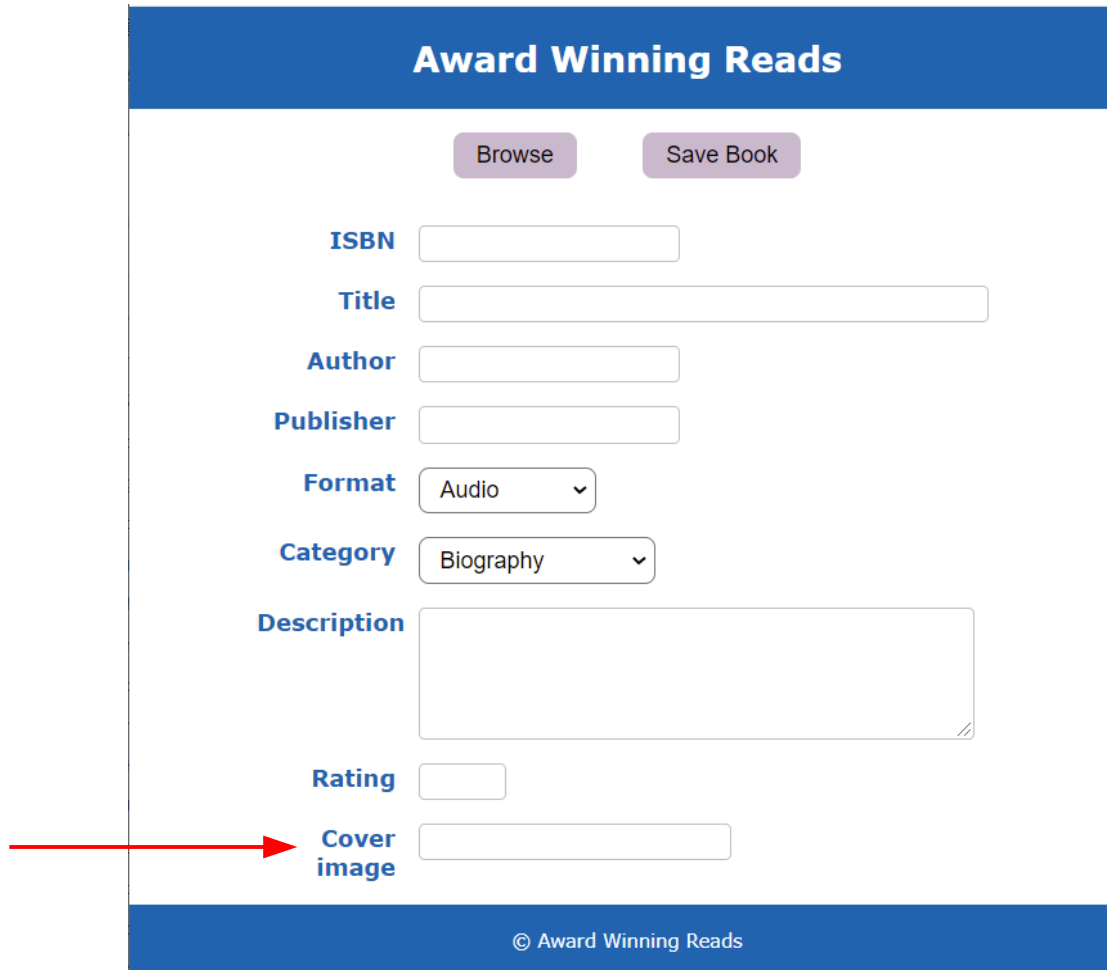
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© Award Winning Reads

- Add image: ``
- For this book, the result would be: ``
- Update style sheet so that the image scales, and is positioned side-by-side with the book details (row-oriented).

Adding Book Cover Image: Modify `add_view`



The image shows a web form titled "Award Winning Reads" with a blue header and footer. The form contains several input fields: "ISBN", "Title", "Author", "Publisher", "Format" (a dropdown menu set to "Audio"), "Category" (a dropdown menu set to "Biography"), "Description" (a large text area), "Rating" (a small text input), and "Cover image" (a text input field). A red arrow points to the "Cover image" field. At the top of the form are two buttons: "Browse" and "Save Book". The footer contains the text "© Award Winning Reads".

Add a new input field: `<input type="text" name="cover" size="25">`

What if there is no book cover image?

Problem: When the user saves the book information, either the input field for the cover image is empty, or an invalid file name is entered.

Solution: Use 'placeholder.png' as the file name when INSERTing the book in the database. This references the 'not available image' below, that is included in the provided images folder.

The diagram illustrates the flow of data from a book form to its display. On the left, the 'Award Winning Reads' form contains the following fields: ISBN (978-1234567891), Title (A New Book), Author (A New Title), Publisher (A New Publisher), Format (Hardcover), Category (History), Description (Description for this new book), Rating (4), and Cover image (empty). A red arrow points from the empty cover image field to a broken image icon labeled 'broken image icon'. In the center, a 'Browse' button is shown. On the right, the book's display is shown with a 'Cover image not available' placeholder. A red arrow points from the 'Cover image not available' placeholder back to the 'Cover image' field in the form. The book's details are: ISBN 978-1234567891, Title A New Book, Author A New Title, Publisher A New Publisher, Format Hardcover, Category History, and Rating 4. The footer of the display shows '© Award Winning Reads'.

Award Winning Reads

Browse Save Book

ISBN 978-1234567891

Title A New Book

Author A New Title

Publisher A New Publisher

Format Hardcover

Category History

Description Description for this new book

Rating 4

Cover image

© Award Winning Reads

Award Winning Reads

Browse

broken image icon

Award Winning Reads

Browse

Cover image not available

ISBN 978-1234567891

Title A New Book

Author A New Title

Publisher A New Publisher

Format Hardcover

Category History

Rating 4

Description Description for this new book

© Award Winning Reads

Hint: Use the PHP `file_exists()` function