Royal Reader E-Book Store
User Documentation

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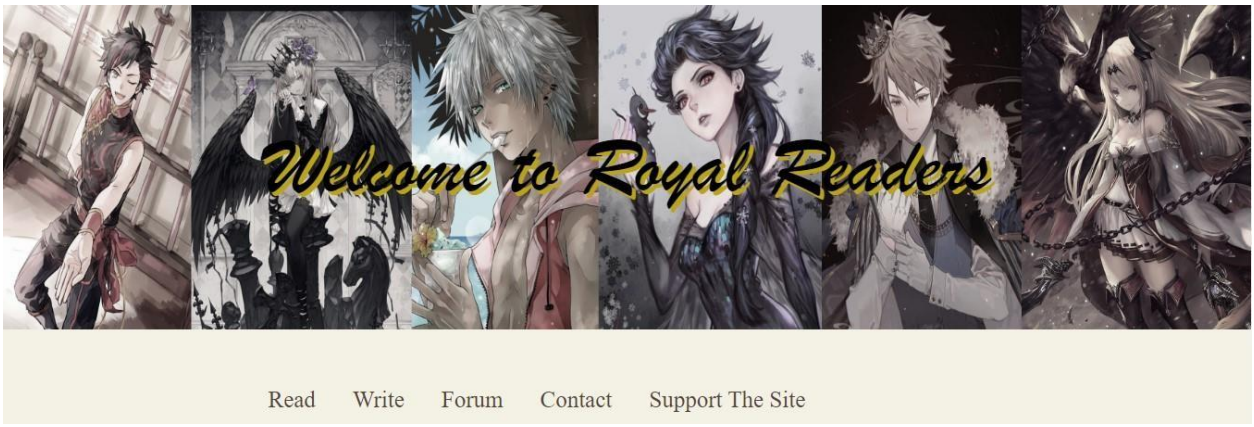
System Overview

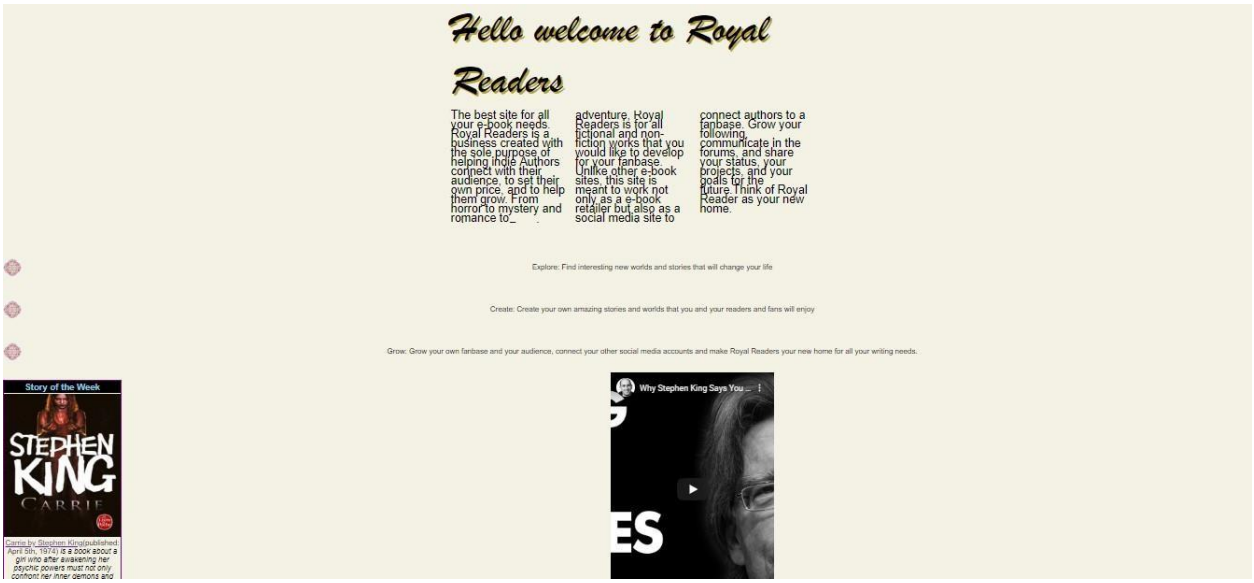
This application tracks the registry and login of its users, it also allows user to add books to the site and tracks them by genre, author, price, and other factors that will allow a consumer to determine whether to buy the books or not. However, this system also has a forum section that allows users to communicate, build a fanbase or following, and communicate with other readers or authors for the goal of open and fun communication.

System Overview Update: The Official Homepage Link for this project is: http://localhost/RoyalReader/RoyalReaderHomePage.html however after logging in you will be redirected to the login homepage which will give you access to the features of this site such as the Royal Reader Notepad, Forum, Read, and Write sections. These are the key features of the project so you must use the login screen to access them.

Home Page Overview



When you first enter the website the first thing you will see is the banner and the top navigator that contains 5 key elements: Read, to search and find books, write, to add books to the site, forum, to communicate with others, contact which will contain contact information for the site administrators, and support the site, to gain support for the site. While these elements aren't coded right now, they will be key components later in the site.

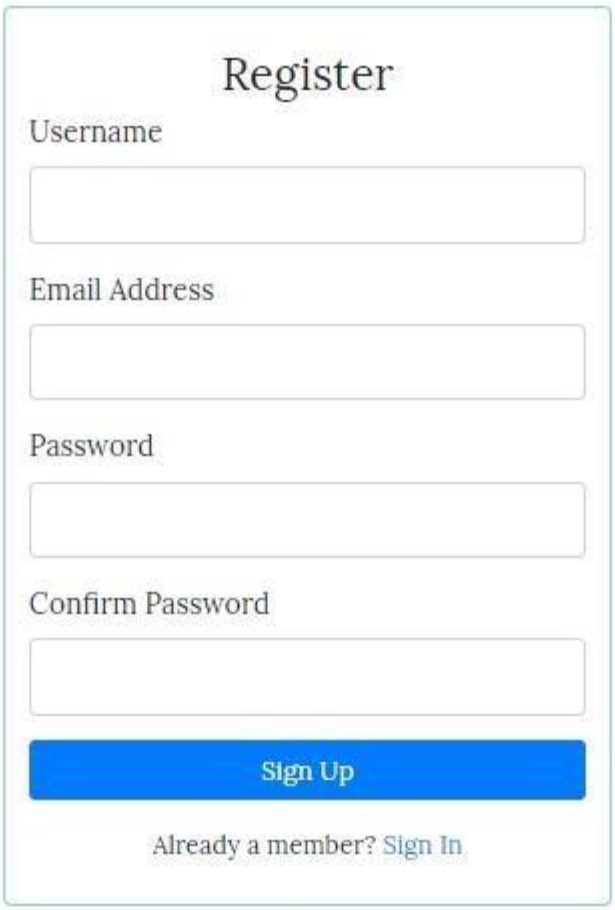


Scrolling down you will see a welcome message for new readers to the site, bulletins for the three mission statements of the intended purpose of the site, a story of the week box which gives a brief summary of a novel along with a picture of the front cover, and to the right of that you can see a inserted video which contains writing advice from Stephen Kings, which is perfect for a e-book store. However, the most important element I will be explaining for the first increment is the login form.

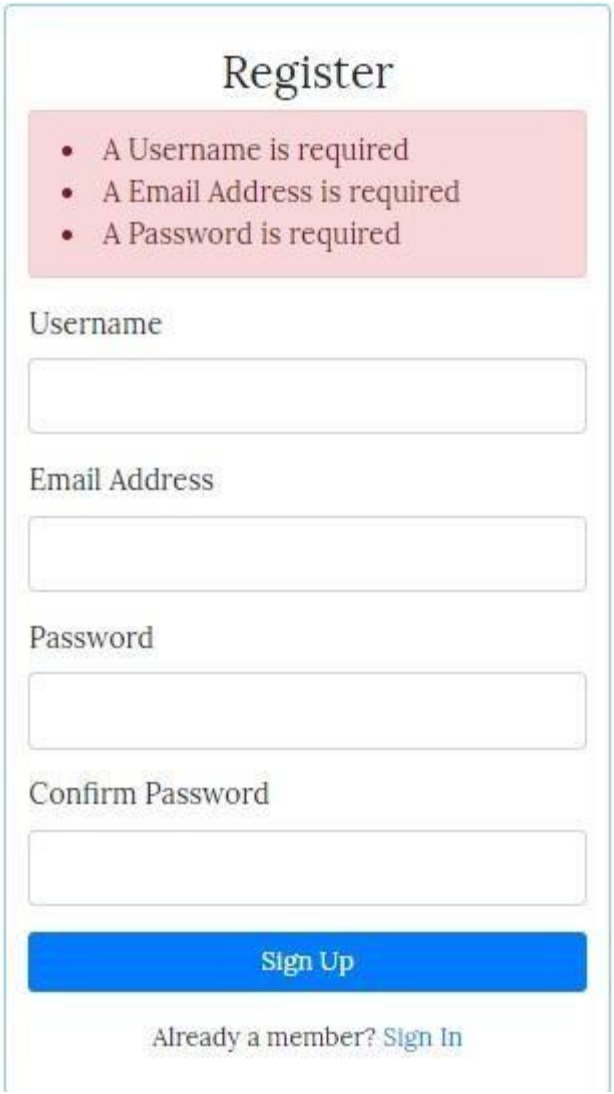
Login Box on the Front Page 1

Register a User

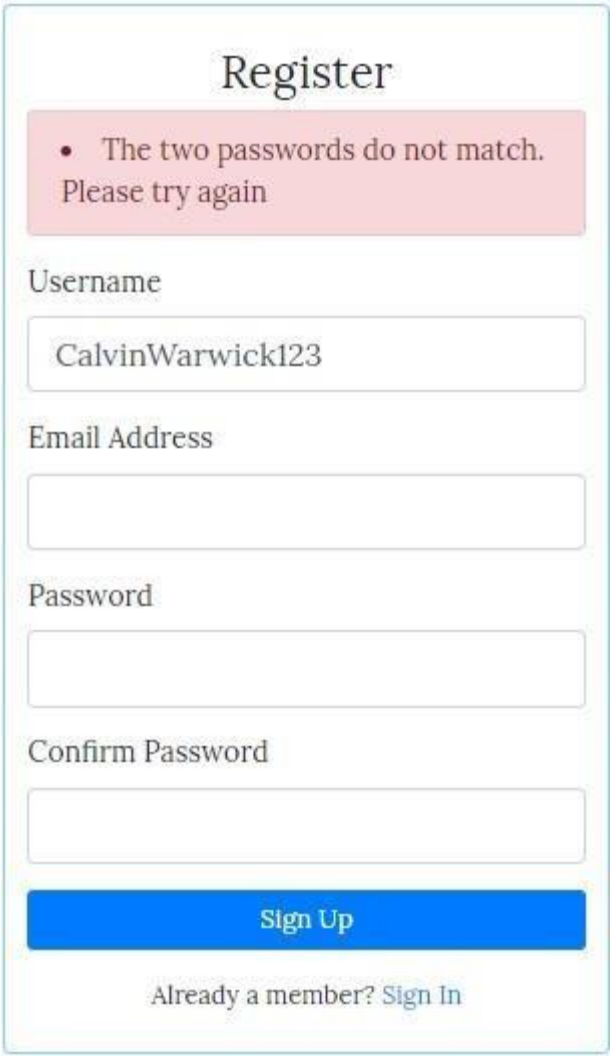
When you click “Not a member? Sign up Now” you will be taken to the signup.php file.



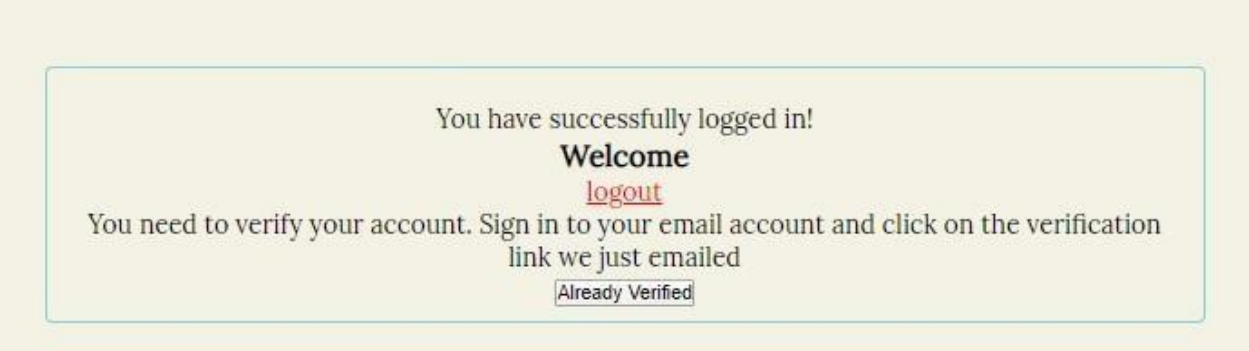
In this form you see four elements: Username, Email Address, Password, and Confirm Password. While the passwords can be replicated, username and email address are set to be unique to each user. Therefore, someone with a duplicate email address and someone with a duplicate email address won't be able to register. However, what happens when you click the sign-up button without inserting correct information.



Uh oh. What happened? Well, because all this information is required in order to sign up, not inserting any information will cause the sign up to stop and you won't be able to continue until you insert the correct information. However, let's try again but this time the two passwords don't match.

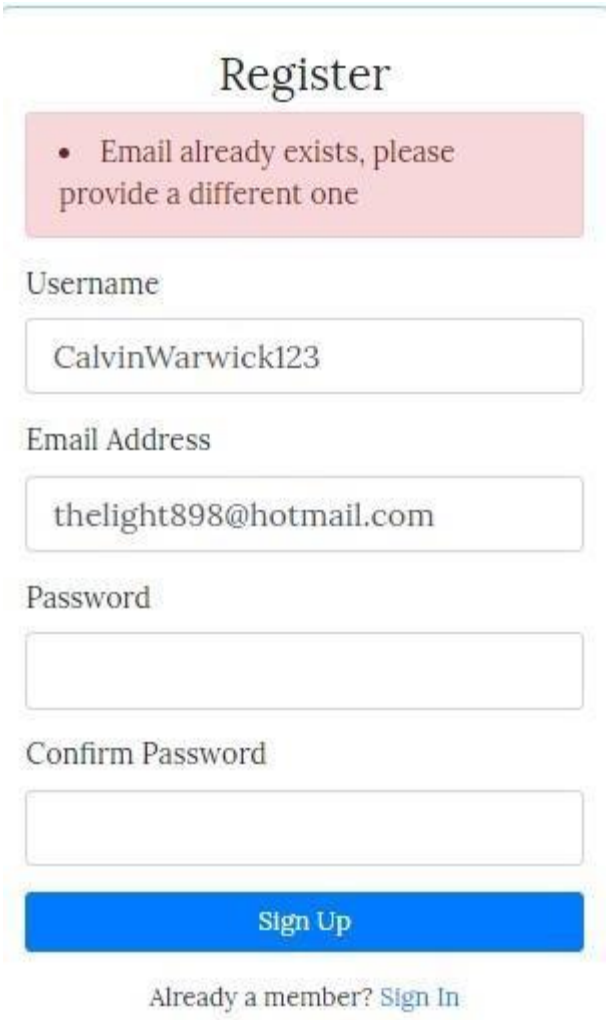


This time even though you inserted a valid email and username since the two passwords don't match you can't continue forward. However this time instead we'll inser the correct password and get taken to the logged in page.



This time when you are successfully logged in you are taken to the logged in page however there is a highlighted box that tells you you have successfully been logged in after registeration. The email verification isn't ready now but next increment it will be initialized but let's see the changes in our database. If you click on the logout button it will return you back to the home page with the login form.

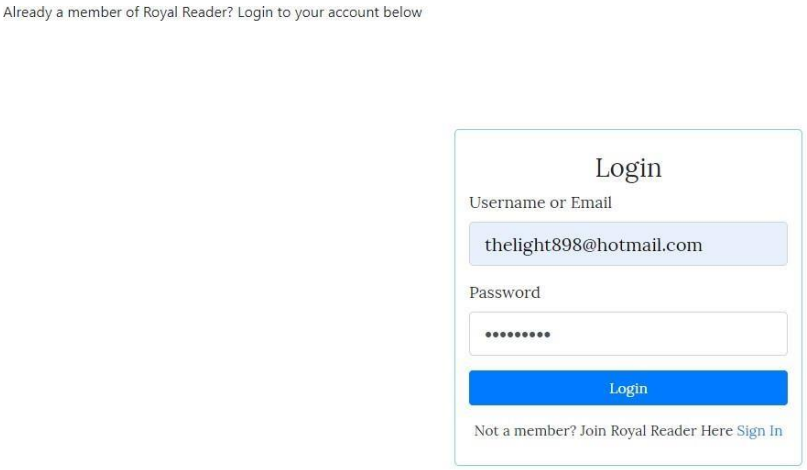
The user is successfully added to our user registry table and it consists of 6 different values: id, username, email, verified (which means did they verify their email, 0 for no and 1 for yes), token, and password (which has been encrypted for their protection). The user can then be edited, deleted, or even copied. However let's see what happens when we try to use the email once again.



Because the email has been added to the database already, you're unable to re-use it for a different account, this will prevent the use of multiple accounts from being registered into our database. Next time, we will focus on: email verification, username duplication prevention, and adding more to the php post login page which will allow you to add books, after becoming a verified user.

Complete Login

In the last Increment we dealt with registration and registering to our site correctly, however the login form still didn't allow users to login correctly. So with this sprint I corrected that.



At the login form you will inser the email/username and password you used to sign up then click the “login” button directly at the bottom. You also have the option, if you haven’t made a account yet to click the blue link at the bottom to create a account. After logging in you will be redirected to the logged in page from earlier.

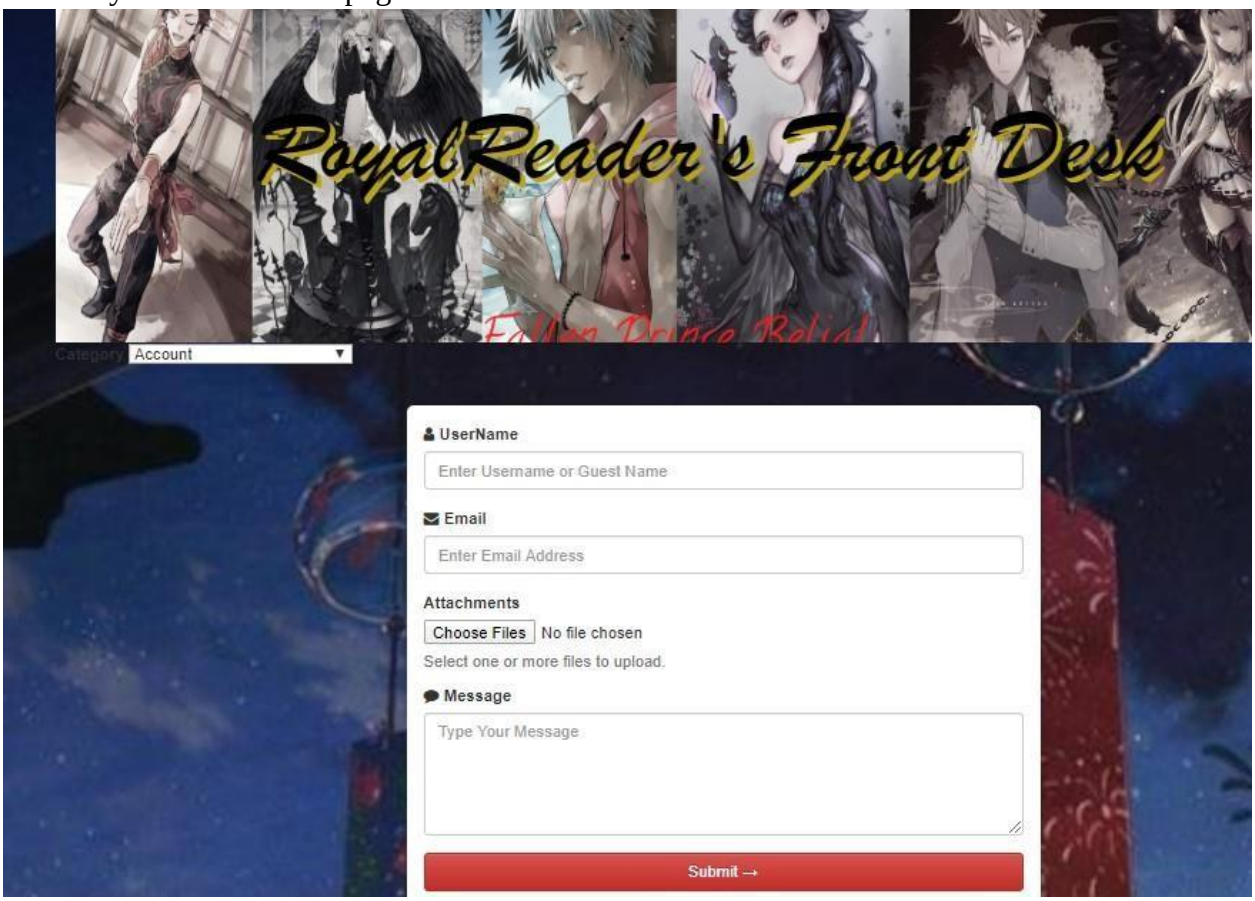
At the login window you will notice the box that will allow you to logout, after clicking it you will be redirected back to the original homepage, however you will notice something different in the url.

the session has been completely destroyed and you are completely logged out of your account now.

Contact Form

Unlike the “writer” form, which I will be working on the next increment, the contact form is accessible to both users that are logged in and logged out.

To Access it you simply click on the Contact button at the top of the homepage and it will redirect you to the contact page.

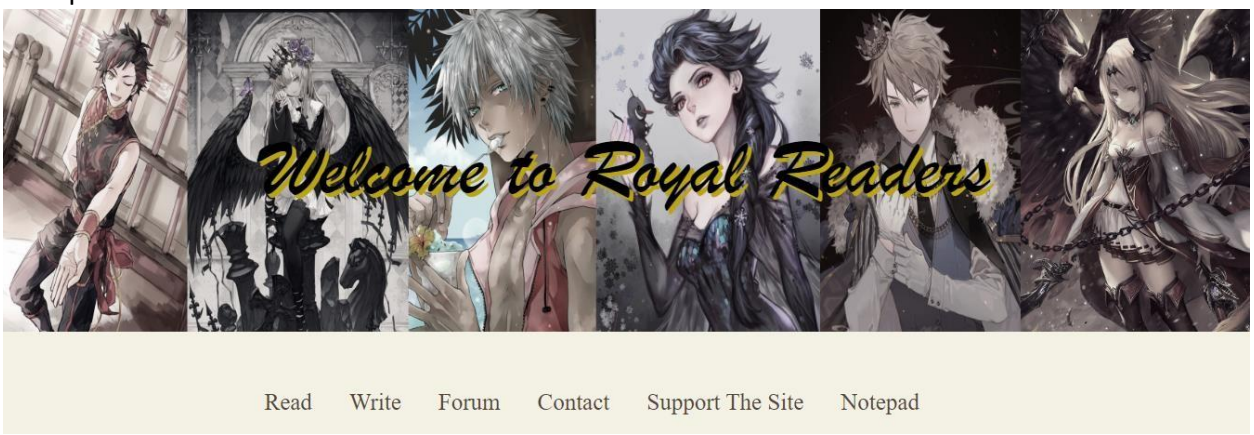


In the contact form you'll notice many different elements. From the top you can see a message welcoming you to the "RoyalReader's Front Desk" and second you can see a category dropdown menu, which will give you a list of different types of questions or concerns you may ask. Secondly, you insert a username or guest name you would like to be referred to as, and then the email address of your choosing, you can even attach images or files, and last the message function. Finally you have the submit button. This form allows you to submit many different types of elements in order to address user concerns to the fullest.

Royal Reader Notepad

The Royal Reader Notepad is one of the main applications on this site. Say you want to save some books for later use or maybe you're an admin who wants to look at some books in the bookstore

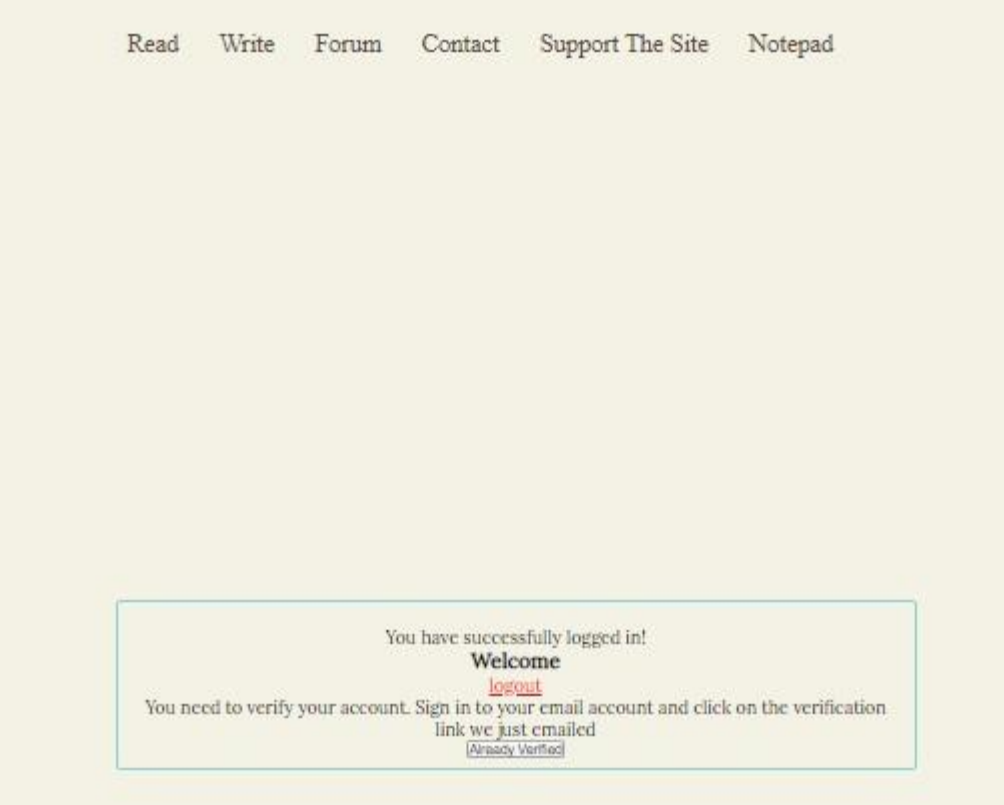
and check for any flaws or updates. Using the Royal Reader Notepad both users and admins can accomplish this task.



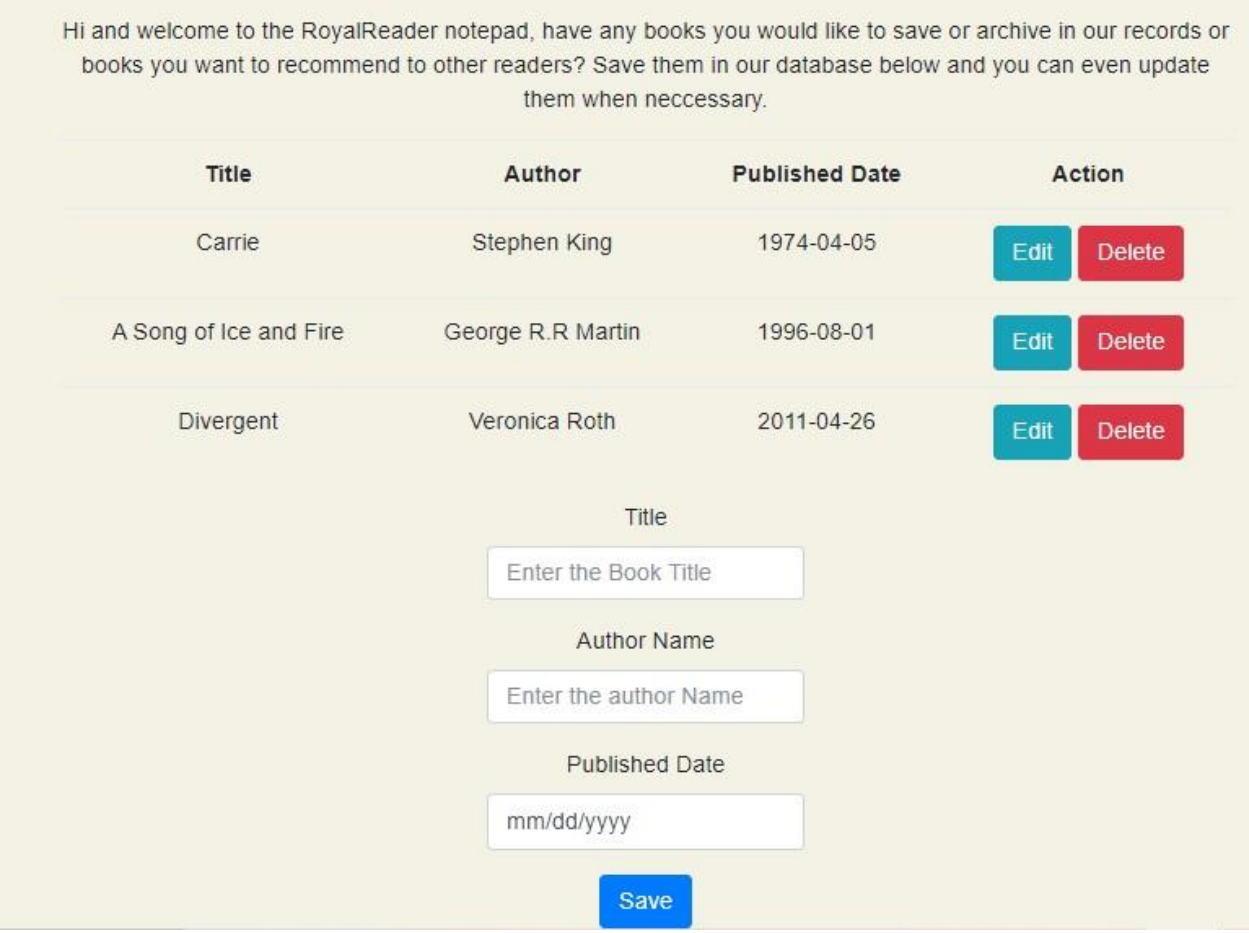
To start let's go to the Homepage: http://localhost/RoyalReader/RoyalReaderHomePage.html at the homepage you'll see six tabs at the top, click on the farthest one titled "Notepad" to start.

However, you'll notice something off about it. In this page you'll see "User must be logged in to access this feature" along with a message telling you to return to the homepage to login. This was implemented in order to verify users are logged in to access this page. So now that we have that figured out let's go to the logged in Royal Reader Page and try again.
http://localhost/RoyalReader/RoyalReaderHomePageL.php

To tell the difference between this page and the regular homepage, like I explained previously you should see a logged in message at the front explaining to you that you have logged in, also the register/login box is gone in this logged in page, because the user is already logged in so it's not needed.



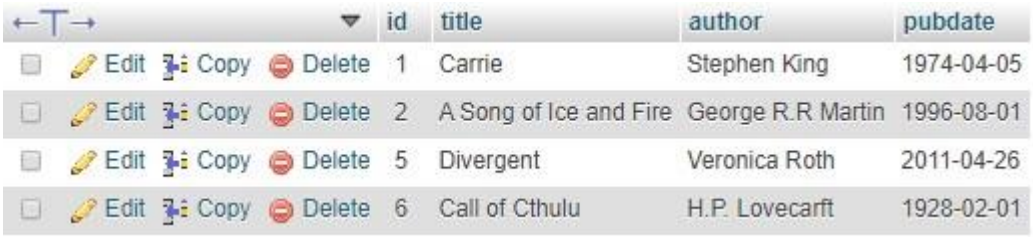
Now that we're logged in let's click on the Notepad and see what happens.



We were taken to the actual notepad Feature. In this Notepad you'll notice three different buttons. A Save button along with three forms. An edit button and a delete button. To start this let's add a new file to the thing called Call of Cthulhu. To do this we will fill out the three necessary files. The Title, Author Name, and Published Date.

After filling out all three fields we will press the Save Button. The reason why these three fields were chosen because these are the three most unique identifiers to identifying a book, according to the and are the three fields used to find books when you go to a local library

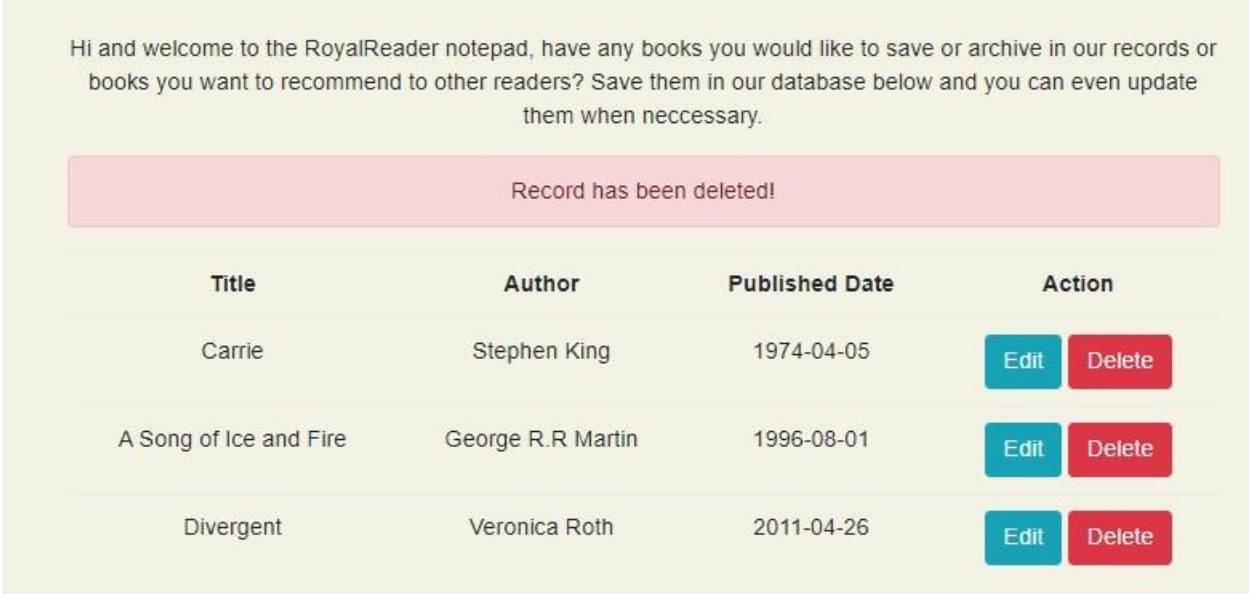
After this you'll get a positive message telling you "Record Has Been Saved" and you'll notice our new books have been added to the record along with the database as well. If the book had failed to update, then you would've gotten a red "Failed to Save Record" message indicating it had failed.



If you look in the royalreadernotepad table on localhost/phpmyadmin you'll see that it has also been added. However after further inspection you'll notice that there has been a error in our file. The author H.P. Lovecraft's name has a spelling our. No problem. We just head back over to the file and click the edit button.

Clicking the edit button will cause the file to return to the fields and for the "save" button to be replaced with the "update" button. So, after fixing the error we will then press the update button.

You'll then get a message saying, "Record has been updated" and you'll notice that the changes have taken place in both the project and in the database itself. Now let's say you don't want to keep this file. To get rid of it you go to the project and this time press the delete button.



You will then receive a red box telling you that the record has been deleted and you'll notice that it's completely gone from our box. If you go in the database as well, you'll notice that the record has been deleted as well.

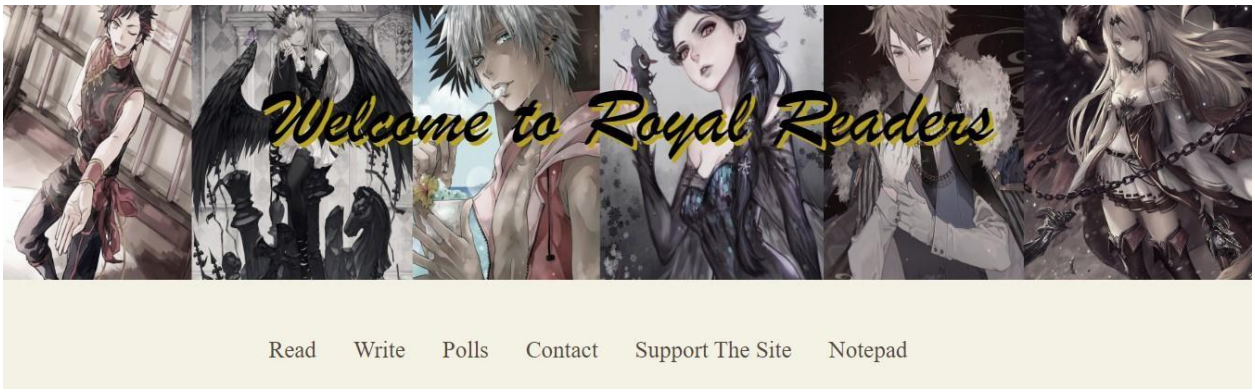
So, with the Royal Reader Notepad you can: create new files, read existing files, update files, and delete files at your own discretion.

Royal Reader Poll

Overview

The Royal Reader Poll is a system designed to allow authors or readers to interact with each other by creating polls that can be used to vote on books, ideas, story concepts, or even records. This system, like our notepad is a C.R.U.D application that allows users to create, read, update (via votes), and delete the polls if required.

To start you go to the homepage and you'll see the poll header tab.

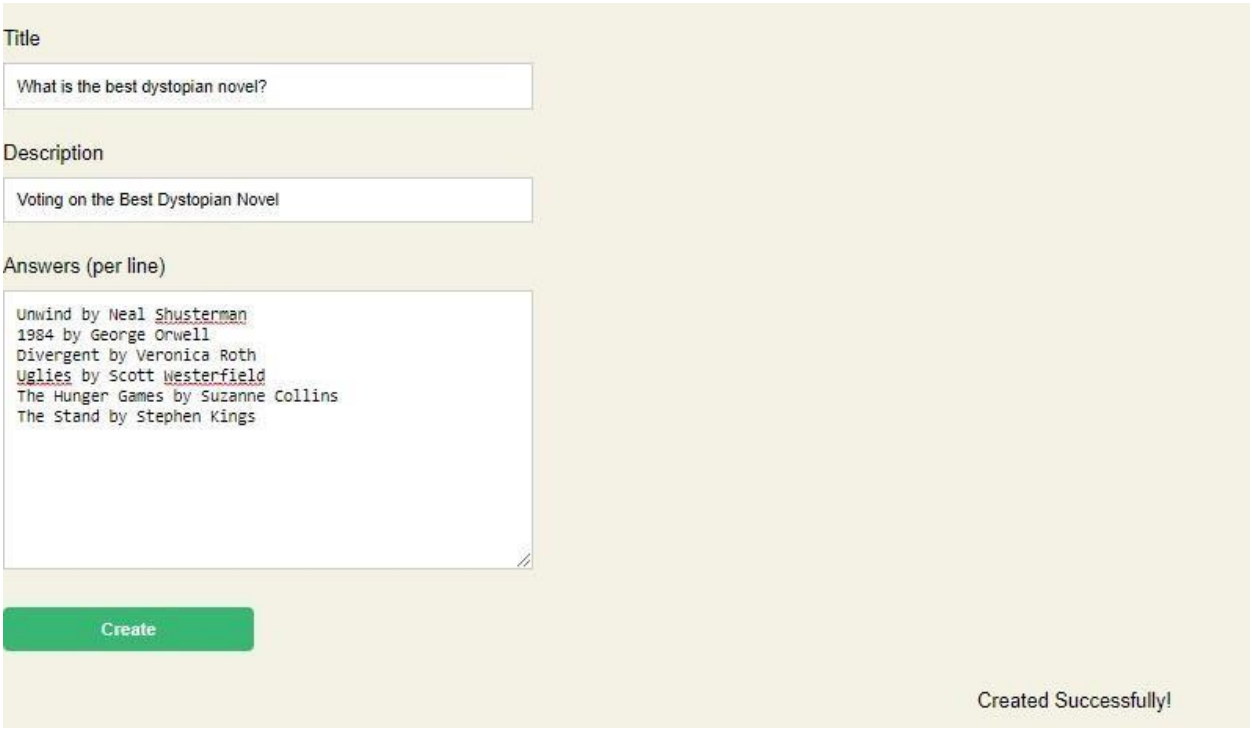


Unlike our Notepad, the Royal Reader Polls can be accessed by both guests (users that aren't logged in) and users that have registered and created an account which means that either http://localhost/RoyalReader/RoyalReaderHomePage.html and http://localhost/RoyalReader/RoyalReaderHomePageL.php. To start you click on the "Polls" tab and it will redirect you to the "Royal Reader Polling Booth".

Create a Poll

The Poll shows you the Title of the Poll, the id number (which is recorded and auto-incremented from the database) and the answers to the poll question. To start we will click the Create Poll button to create a new poll.

When you click the create button you are taken to create.php, in this form you see A Title, Description, and Answers per line forms. In order to make the poll work correctly you must divide all your answers by a different line so the Poll will be able to separate them by answers.



I've created a sample poll with 6 different answers all divided by a different line. I then added a description for the poll to remind us what the poll is about. After filling out the field you then get a message telling you "Created Successfully".

After this we return to the index.php page to see what our poll looks like.

#	Title	Answers
2	What is the Best Stephen King's Novel?	Carrie,Salem's Lot,FireStarter,IT,The Outsider
5	What is the best dystopian novel?	Unwind by Neal Shusterman,1984 by George Orwell,Divergent by Veronica Roth,Uglies by Scott Westerfield,The Hunger Games by Suzanne Collins ,The Stand by Stephen Kings

Our poll has been created and successfully added to the poll index page. Now let's see this data in our database.

	id	title	desc
Edit Copy Delete	2	What is the Best Stephen King's Novel?	Voting on Best Stephen's King Novel
Edit Copy Delete	5	What is the best dystopian novel?	Voting on the Best Dystopian Novel

On the polls table in our royalreader database you can see our polls, the id number that was autoincremented, along with the title and description that we created in the form.

+ Options

	id	poll_id	title	votes
Edit Copy Delete	5	2	Carrie	0
Edit Copy Delete	6	2	Salem's Lot	0
Edit Copy Delete	7	2	FireStarter	0
Edit Copy Delete	8	2	IT	0
Edit Copy Delete	9	2	The Outsider	0
Edit Copy Delete	10	5	Unwind by Neal Shusterman	0
Edit Copy Delete	11	5	1984 by George Orwell	0
Edit Copy Delete	12	5	Divergent by Veronica Roth	0
Edit Copy Delete	13	5	Uglies by Scott Westerfield	0
Edit Copy Delete	14	5	The Hunger Games by Suzanne Collins	0
Edit Copy Delete	15	5	The Stand by Stephen Kings	0

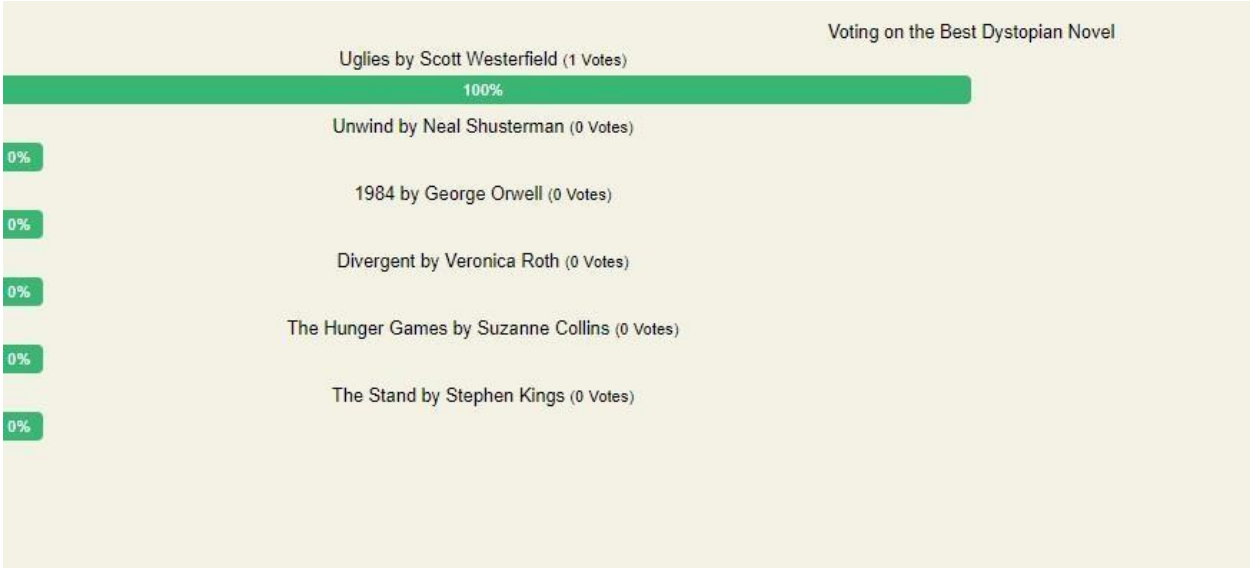
Our poll_answers will show us all the answers we have created. However, while it might look more difficult, thanks to the foreign key of the poll_id you can see which answers belong to which poll. Next we're going to manipulate the votes and you'll get to see it change.

Update a Poll

5	What is the best dystopian novel?	Unwind by Neal Shusterman,1984 by George Orwell,Divergent by Veronica Roth,Uglies by Scott Westerfield,The Hunger Games by Suzanne Collins ,The Stand by Stephen Kings

On our recently created poll you'll notice the green eye icon. This allows you to view the poll along with the answers, click on it and this will allow you to vote.

With our poll title at the top and our answers all divide by different buttons you can vote on which story or idea you think it best. Right now, we'll cast our vote for uglies by Scott Westerfield. After selecting your answer click the "Vote" button to cast your vote aka to submit it to the database.



After casting your vote you'll be redirected directly to the Results, which will show us our recently voted story at the top. However, you could also use the View Result button on the previous page to see the votes without casting a vote, which is great for if you want to see the results without directly affecting the votes.

+ Options

	id	poll_id	title	votes
Edit Copy Delete	5	2	Carrie	0
Edit Copy Delete	6	2	Salem's Lot	0
Edit Copy Delete	7	2	FireStarter	0
Edit Copy Delete	8	2	IT	0
Edit Copy Delete	9	2	The Outsider	0
Edit Copy Delete	10	5	Unwind by Neal Shusterman	0
Edit Copy Delete	11	5	1984 by George Orwell	0
Edit Copy Delete	12	5	Divergent by Veronica Roth	0
Edit Copy Delete	13	5	Uglies by Scott Westerfield	1
Edit Copy Delete	14	5	The Hunger Games by Suzanne Collins	0
Edit Copy Delete	15	5	The Stand by Stephen Kings	0

You'll see that our votes in the localhost/phpMyAdmin database has changed the vote count for Uglies by Scott Westerfield from a 0 to a 1. The more votes you cast, the higher the numbers will change but this shows that our votes directly impact the table and database and therefore update it by vote counts. With that out of the way let's show deleting a poll.

Delete a Poll

Going back to our index page you should note the red trashcan button next to the green eye button for every created poll. Clicking this button will allow us to completely delete the poll from our database and all the answers that go along with it.

After clicking the button, you are given a question asking if you're sure you want to delete the poll, along with the poll's number. Clicking yes will permanently delete it and no will keep it. We'll click yes to permanently delete the poll.

You are then given a message telling you that the poll has been deleted. Clicking the “Polls” button at the top will redirect you back to the index page where you can see the page is completely gone.

You have successfully deleted the poll.

In our polls and poll answers tables, the poll along with all its answers have been completely deleted from the database.

Poll Conclusion

In this overview you can see how polls are a great tool for authors and users to connect and learn more about the fanbase or the site base and to gain info regarding their stories. With this poll tool you can create new polls, read and view the polls, update the votes of polls, and delete the polls from both the system and our polls index page.

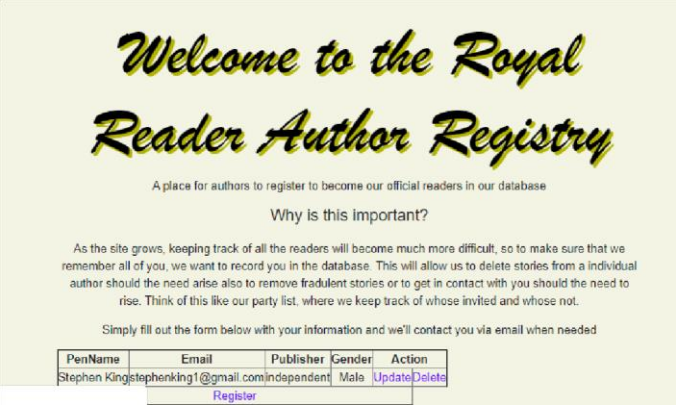
Poll Return to Homepage

One thing I forgot to cover with the poll system is how to return to the index after you completed voting or creating a poll. Where there’s this interesting short cut that I created in the program that I forgot to go over.

At the top of every poll page you should see this purple widget titled “Polls” which will take you back to the index homepage. Not only this but I added the Royal Reader Navigation Bar in order to navigate between all the different pages.

Royal Reader Author Registry

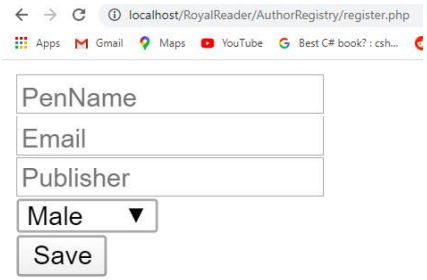
Author Registry Overview



You might be wondering why a feature like this is important to the site? Well allow me to explain. The point of the Royal Reader site is to facilitate and host the stories of dozen to hundreds of writers (this is the point of a online bookstore), however we need a way to get in contact with individual authors, prevent people from incorporating or stealing the identities of other authors, and to ban or delete authors who break the terms and conditions. The best way to do this is with a Author Registry, which will allow us to delete authors, update their profiles, and keep in contact with them by having their emails on our file system. So in order to facilitate this, the Royal Reader Author Registry was created. The link for the Author Registry is this: http://localhost/RoyalReader/AuthorRegistry/index.php Now let’s get into how it works.

Register an Author

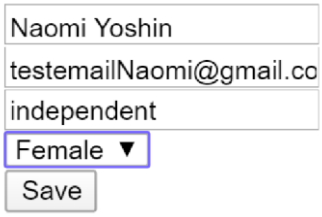
All the authors are recorded and registered on a table, to start this, you must first click the “Register” button at the bottom of the chart.

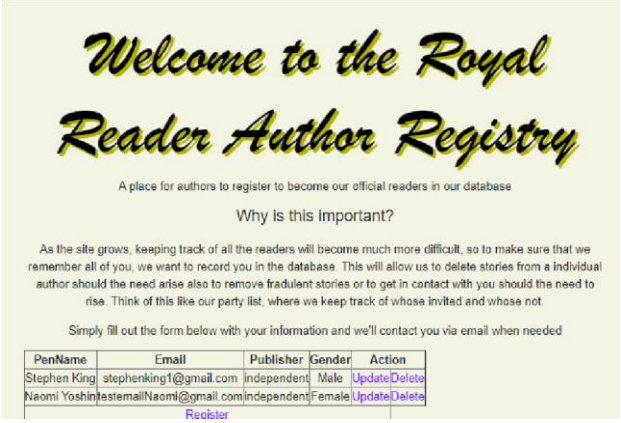


You’ll be taken to the Register.php page where you’ll see this field. Authors will then type in their Pen Name (because Royal Reader is meant to be a site for either independent or big authors, we allow authors to use pen names, in case they want to remain anonymous), they then write their

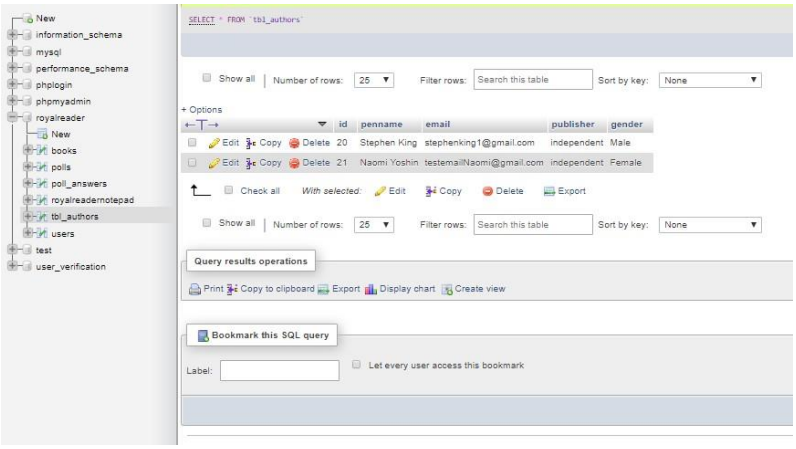
email (so we can get in contact with them), a publisher (if you're an independent author then you can write independent or none) and lastly you can write male or female for gender so people will know what to refer to you as in case we need to email you.

After filling out the fields you'll click the save page and you'll be taken back to the index page. Here's the fields are filled out and then I'll click save:





Naomi has now been added to our Author Registry. And when you go to localhost/phpMyAdmin, under the tbl_authors table Naomi has been added.



Update Author Registry

Let's say the author makes an error when filling out their information, for example Naomi's email, and they want to correct it. This can be accomplished by going to the index page and clicking the update button.

PenName	Email	Publisher	Gender	Action	
Stephen King	stephenking1@gmail.com	independent	Male	Update	Delete
Naomi Yoshin	testemailNaomi@gmail.com	independent	Female	Update	Delete
Register					

Next to each entry you see Actions, one for Update and One for Delete. Clicking on Update will allow you to update that author. So first we're going to click on the Update Button next to Naomi's name and see where it leads.

It leads us back to the fields with Naomi's information insert. Also the "save" button has been replaced with a "Update" button and if you decide that you don't want to change any information you can click the "Home" button to go back to the index page. Now let's change Naomi's email. Instead of the testemail, we'll change it to NaomiYoshin101@gmail.com. After you finish filling out the information click the update button and at the top you'll get this message.

The Author has been successfully updated. Now, go back down on the form and click the "Home" button. It will take you directly back to the index.php Author Registry page where you can see:

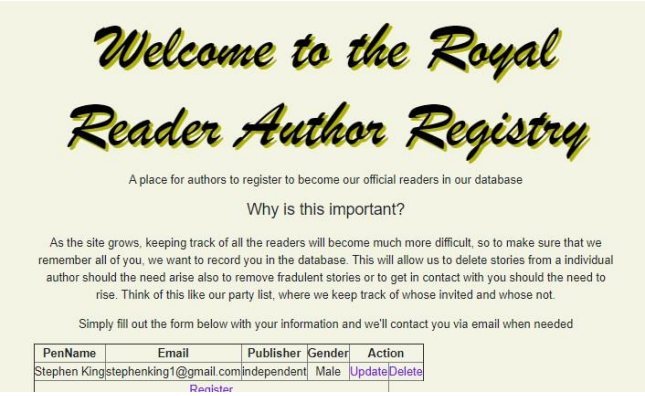
PenName	Email	Publisher	Gender	Action	
Stephen King	stephenking1@gmail.com	independent	Male	Update	Delete
Naomi Yoshin	NaomiYoshin101@gmail.com	independent	Female	Update	Delete
Register					

Our form has been successfully updated with the new email, just like we wanted. But not only does this update here, going back to the localhost/phpMyAdmin table you can see that the database has been successfully updated as well.

Deleting a Author

Now let's say that we decide that the Author doesn't want to write or is leaving the site and we want to remove them from the registry. This can be accomplished in our index as well. Going to the database, simply click the Delete button next to the author you want to remove.

You'll get a message asking, "Are you sure you want to delete", now we'll click ok to see it happen.



The Author Naomi has now been deleted from the table and database.

Author Registry Conclusion

We have now figured out how to successfully Create, Read, Update, and Delete with our Author Registry Database. Using this system is a efficient way to keep track of our authors and the books they create, by making a system so we can confirm all books, correct errors, and delete authors and their story listings if needed.

Royal Reader Book Store

Royal Read Book Store Overview

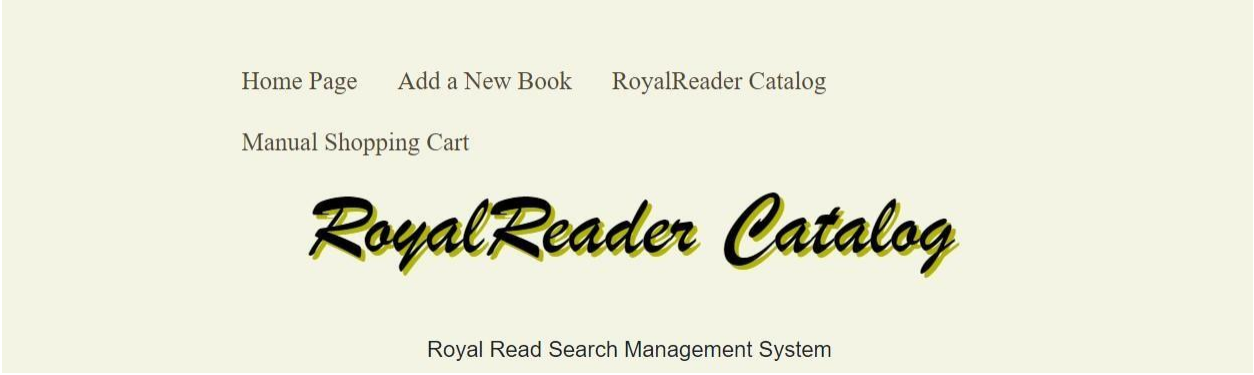
We are now at the final and most important part of our bookstore application. Adding books to our industry. Since this is an e-book store, there is no reason to worry about how many books we have in stock because you're paying for a digital copy of the book (however if this were to change then you would need to add a record to hold how many in stock books we have. To start, go to the Home

Page of our site and you'll see a link for this. You can access it either through the logged in home page or the not logged in home page. It will be labeled "Book Store" and it will take you directly to our catalog.

submit Reset

RoyalReadNumber	Title	Author	Publication Date	Price	Synopsis	Publisher	Image	Series '(Y or N)"
1	Tokyo Ghoul Volume 1	Sui Ishida	2015-06-16	10.00	After a bad encounter on a date shy and timid Ken Kaneki finds himself transformed into a ghoul, half-ghoul, half-human but unable to fit in with either now Kaneki must try to navigate being a ghoul while also trying to survive the horrors of this new world.	Viz Media	tokyoghoulcover.png	0
8	Carrie	Stephen Kings	1974-04-05	19.25	Carrie is a lonely girl who endures immense torment and bullying from her peers and a strict religious mother upbringing. After her prom goes wildly out of control she loses control of her psychic powers and gets revenge on those who tortured her all those years, for the final night of her life.	Doubleday	CarrieNovel.jpg	N
9	Test	test	0001-01-01	10.00	Please do not include Discord, Social Media, Patreon or PayPal links here; this will get your submission rejected.	test	Divergent_(book).jpg	N
10	The Boy and The Sword	FallenPrince12	2020-04-25	12.99	Ichnir is a young adventure on a quest however when he meets the mysterious inn-keeper who sells him a legendary sword at a bargain he is happy to possess a holy sword only for it to turn out to be a piece of junk, he then embarks on a quest of revenge against the shopkeeper only to learn that this is much deeper than he initially thought.	independent	IchnirAndSwordCover.png	N
11	L	L	0001-01-01	19.99	LLLL	L	TokyoGhoulVolume2Cover.jpg	Y
12	Test	Sui Ishida	0222-02-02	6.99	djjjfjf	Test		N
13	Antique	Sui Ishida	2012-03-12	5.10	Second Book of Tokyo Ghoul, Kaneki must now navigate the life of ghoul and human while the police investigate the rise in Ghoul attacks on the citizens.	Viz Media	CoverForBooks.jpg	Y

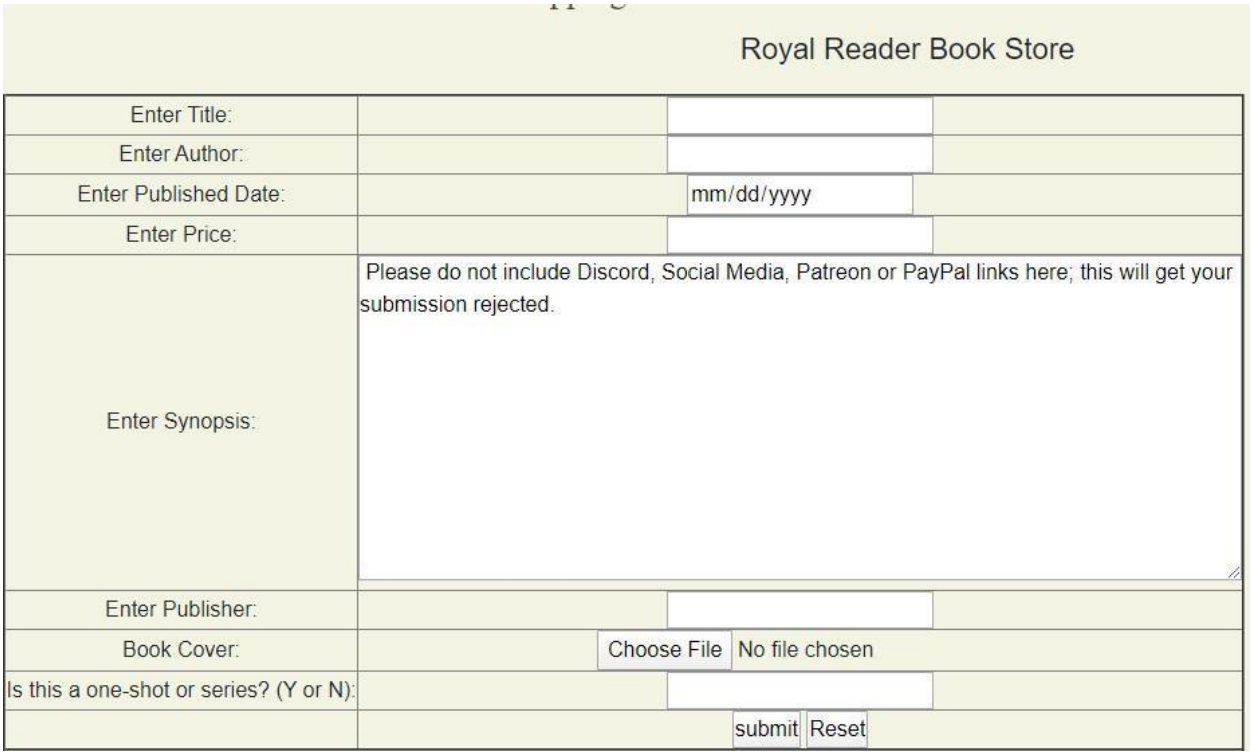
All our books in selection. However, while designing and creating it I ran into one problem, due to the nature of our search engine, you can't record books with the same name, as I tried to record "Tokyo Ghoul Volume 2" and it wouldn't record it, however as you can see in my synopsis, you can see I wrote that it would be the sequel to the book. Now that we see our books, we would like to add another book to our catalog. To do this we need to go back to the top of our home page and you'll see four different href links in our navigation header compared to the home page's.



These four customized navigation headers will lead you to a different place. The first one “Home Page” leads you back to the home page where you can explore and test out the other applications and features. The second “Add a New Book” is where we need to go to add a new book to our catalog. The third is a link to the catalog (which we’re currently in so on this page it won’t do anything) and finally the “Manual Shopping Cart” takes you to the shopping cart. For our Shopping Cart and Book Catalog they both have this custom navigator on all their pages so we can go between them easily.

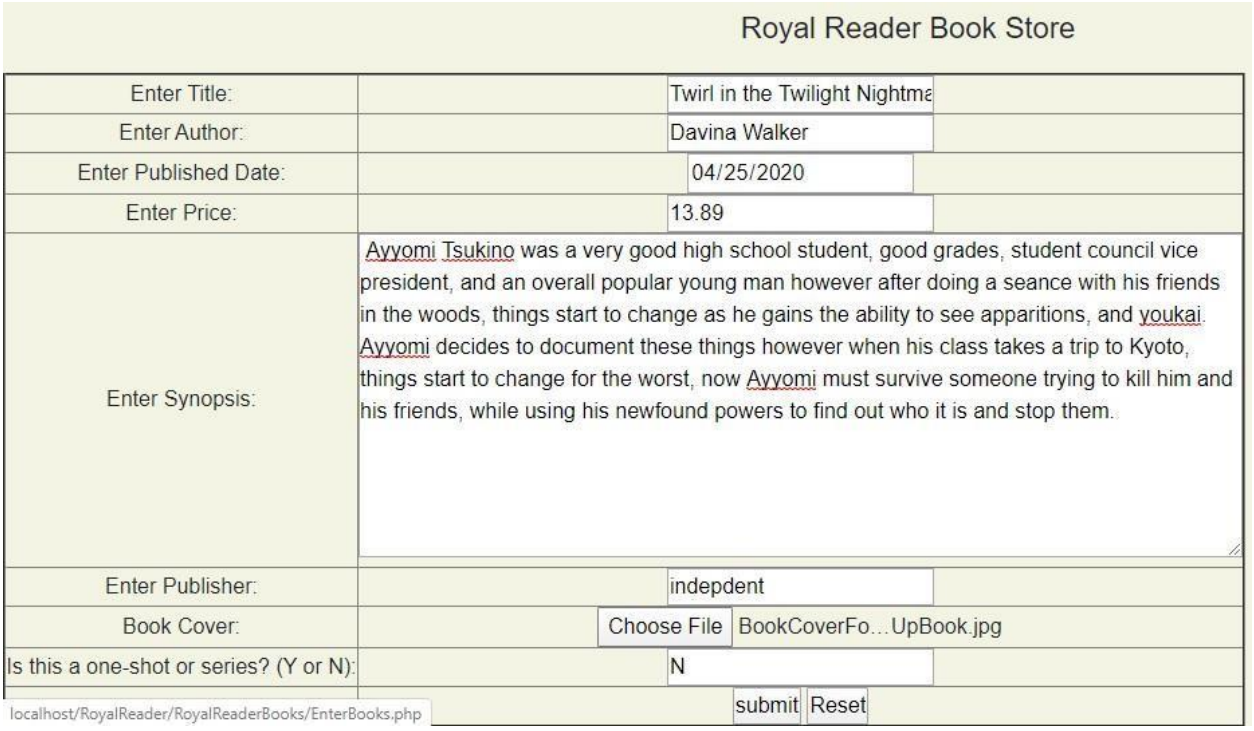
Add a New Book

After we click “Add a New Book it will take us to the form to add a new book.

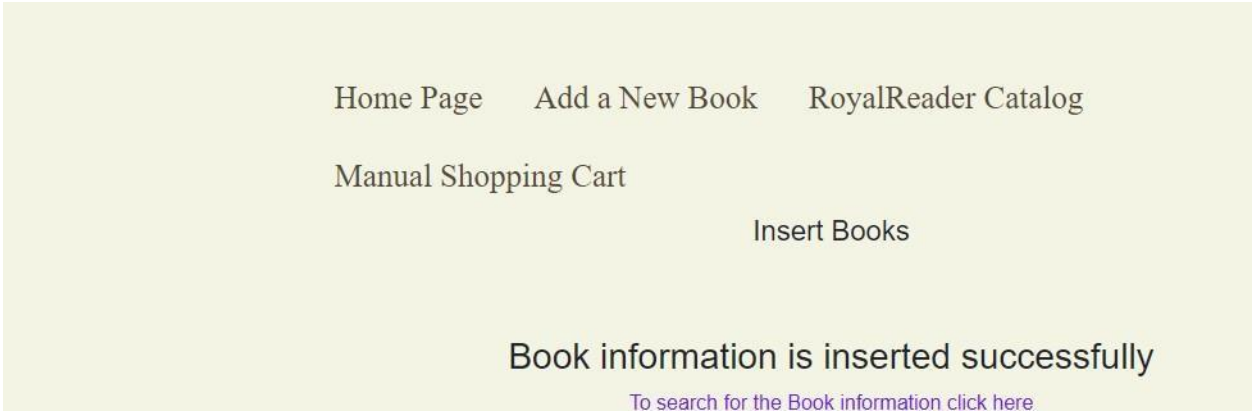


This one has more information than any other application in our Book Store. The first is a title, as I explained before, due to the nature of the search engine which we will go over, all titles must contain unique words. The second is the author, which we can use the author registry to verify later if they’re a registered author, the third is the Published Date of the book. Fourth is the price, which must be written in a 00.00 format. And then the synopsis, which you can use to tell if this is a addition to a series. Then the publisher, recommended you write “independent” or “n/a” if you don’t have a publisher. And finally, you can add a book cover by choosing a file, while the cover won’t show up in our catalog it will be saved in our database as a file. And finally, the yes or no question to indicate if this is a serialized or one-shot story.

If any of the information is ever wrong, you can click the [Reset] button in order to reset all the data or you can click [Submit] to send it. After filling out the information I’ll show a screenshot below before pressing submit.



And now that we have filled out our new book, we can press [submit].



After submitting we get a message telling us that our Book information is inserted successfully and then we can go back to the Royal Reader Catalog to check it out.

14	Twirl in the Twilight Nightmare	Davina Walker	2020-04-25	13.89	Ayyomi Tsukino was a very good high school student, good grades, student council vice president, and an overall popular young man however after doing a seance with his friends in the woods, things start to change as he gains the ability to see apparitions, and youkai. Ayyomi decides to document these things however when his class takes a trip to Kyoto, things start to change for the worst, now Ayyomi must survive someone trying to kill him and his friends, while using his newfound powers to find out who it is and stop them.	indepdent	BookCoverForMadeUpBook.jpg	N

Our book has been successfully added and now we can go to our royalreaderbooks table in localhost/phpMyAdmin to see that our records are all in there.

+ Options

	royalreadnumber	title	author	pubdate	price	synopsis	publisher	image	series
Edit Copy Delete	1	Tokyo Ghoul Volume 1	Sui Ishida	2015-06-16	10.00	After a bad encounter on a date shy and timid Ken ...	Viz Media	[BLOB - 19 B]	0
Edit Copy Delete	8	Carrie	Stephen Kings	1974-04-05	19.25	Carrie is a lonely girl who endures immense tormen...	Doubleday	[BLOB - 15 B]	N
Edit Copy Delete	9	Test	test	0001-01-01	10.00	Please do not include Discord, Social Media, Patr...	test	[BLOB - 20 B]	N
Edit Copy Delete	10	The Boy and The Sword	FallenPrince12	2020-04-25	12.99	Ichnir is a young adventure on a quest however whe...	independent	[BLOB - 23 B]	N
Edit Copy Delete	11	L	L	0001-01-01	19.99	LLLL	L	[BLOB - 26 B]	Y
Edit Copy Delete	12	Test	Sui Ishida	0222-02-02	6.99	djjjfjf	Test		N
Edit Copy Delete	13	Antique	Sui Ishida	2012-03-12	5.10	Second Book of Tokyo Ghoul, Kaneki must now naviga...	Viz Media	[BLOB - 17 B]	Y
Edit Copy Delete	14	Twirl in the Twilight Nightmare	Davina Walker	2020-04-25	13.89	Ayyomi Tsukino was a very good high school studen...	indepdent	[BLOB - 26 B]	N

All our records are successfully saved, and our image especially has been saved as a BLOB.

Search Through Catalog

Let's say there's a book you're looking for you want to find it by name. In our Book Catalog you can do this by using the search function.

To test it out I will make it so only our new book displays, so in the search bar type "Twirl" and then submit.

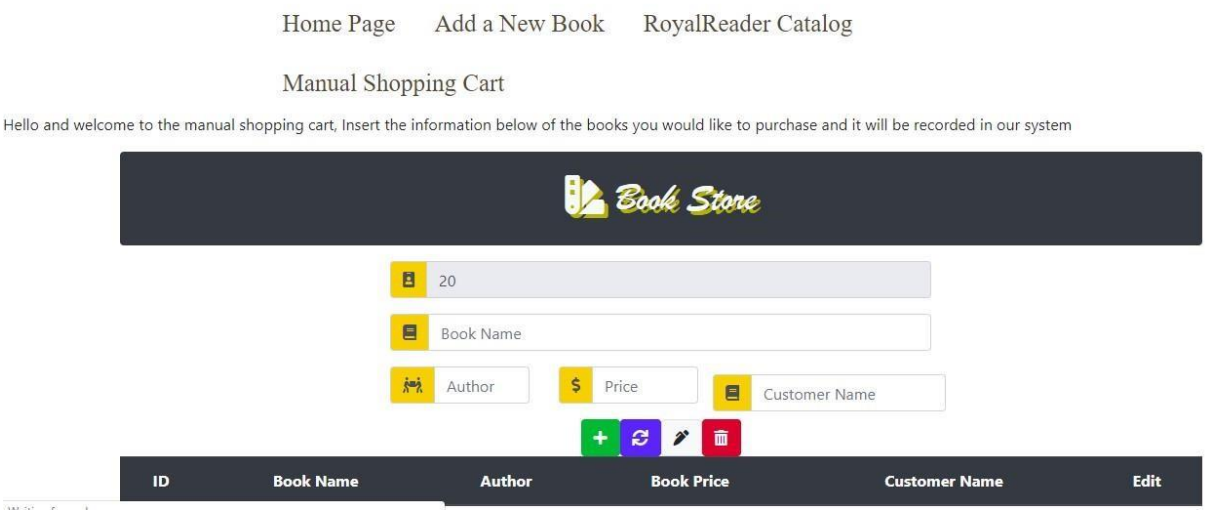
RoyalReadNumber	Title	Author	Publication Date	Price	Synopsis	Publisher	Image	Series '(Y or N)"
14	Twirl in the Twilight Nightmare	Davina Walker	2020-04-25	13.89	Ayyomi Tsukino was a very good high school student, good grades, student council vice president, and an overall popular young man however after doing a seance with his friends in the woods, things start to change as he gains the ability to see apparitions, and youkai. Ayyomi decides to document these things however when his class takes a trip to Kyoto, things start to change for the worst, now Ayyomi must survive someone trying to kill him and his friends, while using his newfound powers to find out who it is and stop them.	indepdent	BookCoverForMadeUpBook.jpg	N

All the other books are gone and now you only see our newly created book using the title, it searched for key words and as such uses those to filter for a specific book. Now that we can add books to our catalog let's move onto shopping cart.

Royal Reader Shopping Cart

Royal Reader Shopping Cart Overview

While I had trouble creating a "traditional" shopping cart I have created a manual one where you can add books to our database for "future purchase" by using "users" to keep track of who purchased what. To start go to the header and click on the "Manual Shopping Cart" href and it will redirect you to the shopping cart index.



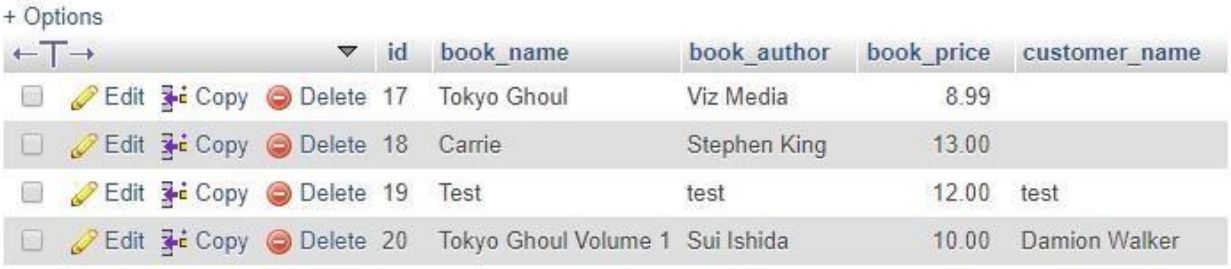
Saved in our database as the shoppingcart table, it takes in four functions. Book Name, Author, Price, and Customer Name (or username). You fill out all this information and the unique id will make each purchase unique.

Create and Read Books Purchase in Cart

To create a book purchase, fill out the form by clicking the green plus icon.

After filling it out press the enter key and you'll get a message at top telling you the record has been successfully added. Now to read all the records you click the blue icon and it will take you to all the books added to the shopping cart.

ID	Book Name	Author	Book Price	Customer Name	Edi
17	Tokyo Ghoul	Viz Media	$8.99		
18	Carrie	Stephen King	$13.00		
19	Test	test	$12.00	test	
20	Tokyo Ghoul Volume 1	Sui Ishida	$10.00	Damion Walker	



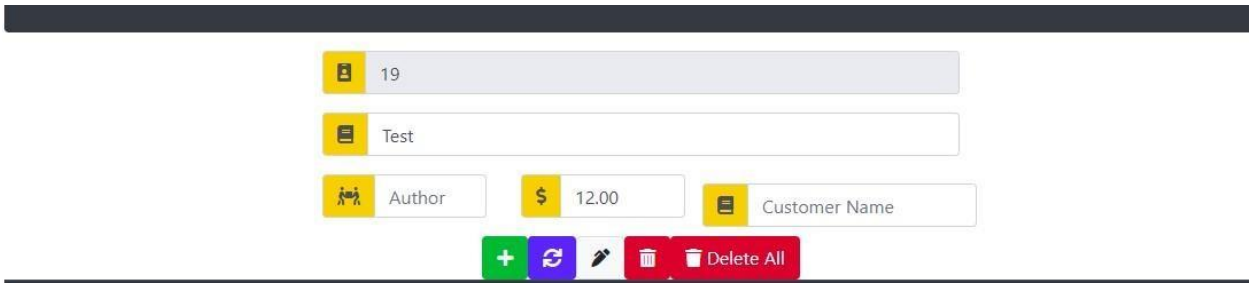
+ Options

	id	book_name	book_author	book_price	customer_name
Edit Copy Delete	17	Tokyo Ghoul	Viz Media	8.99	
Edit Copy Delete	18	Carrie	Stephen King	13.00	
Edit Copy Delete	19	Test	test	12.00	test
Edit Copy Delete	20	Tokyo Ghoul Volume 1	Sui Ishida	10.00	Damion Walker

You can see all the books In the shopping cart in both our program and in the shopping cart database.

Update a Book in Cart

Let's say you notice an error or would like to correct some of the information in the purchases. To do so you first click the "Edit" button next to the row you want to edit, and it will be added to the form to be updated.

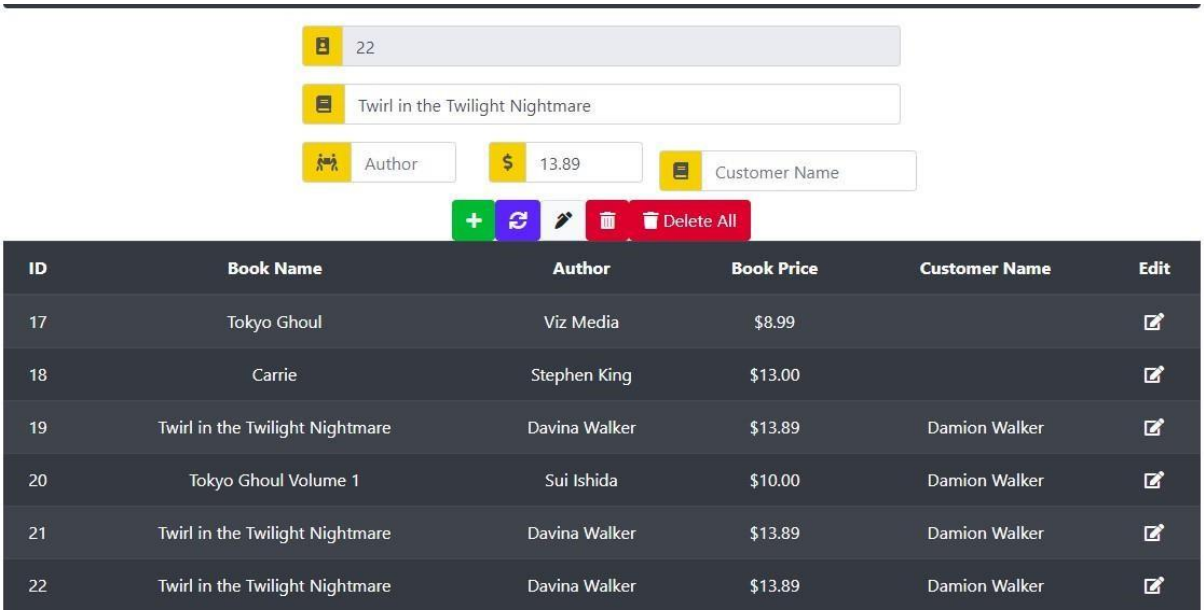


This information looks very incomplete for our graph so let's add all the missing variables and correct the errors.

After filling it our press the white pen icon and you'll see that our record has been successfully updated in both the database and in our program.

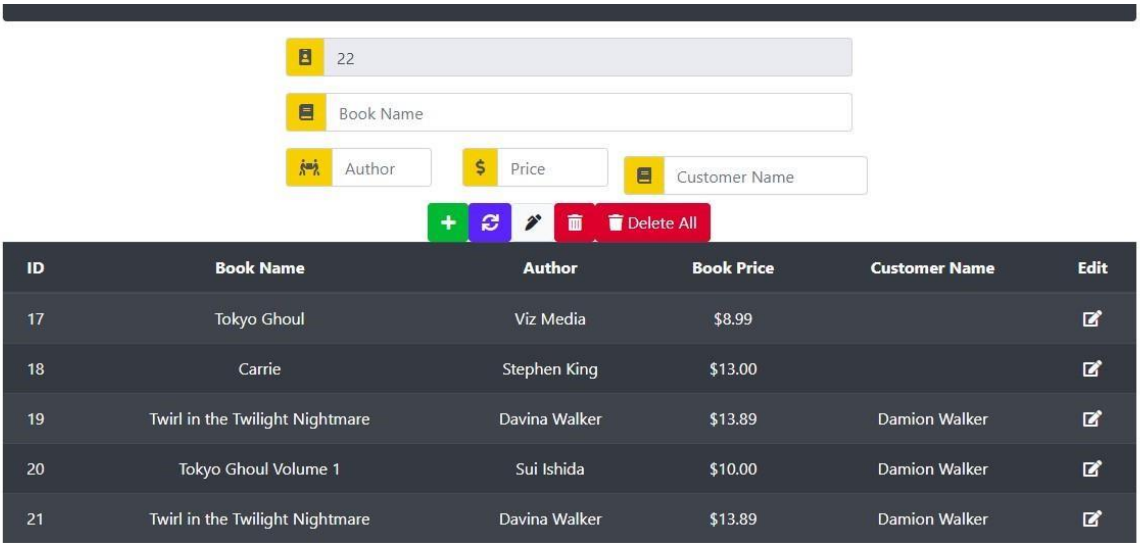
Delete from Shopping Cart

Our shopping cart has two functions, Delete and Delete all. If you wanted to delete every book in our shopping cart record the delete all would accomplish this however, I'm going to demonstrate delete a book from the records. To start first click the "Edit" for the file you wish to delete, this will put it's data in the form.



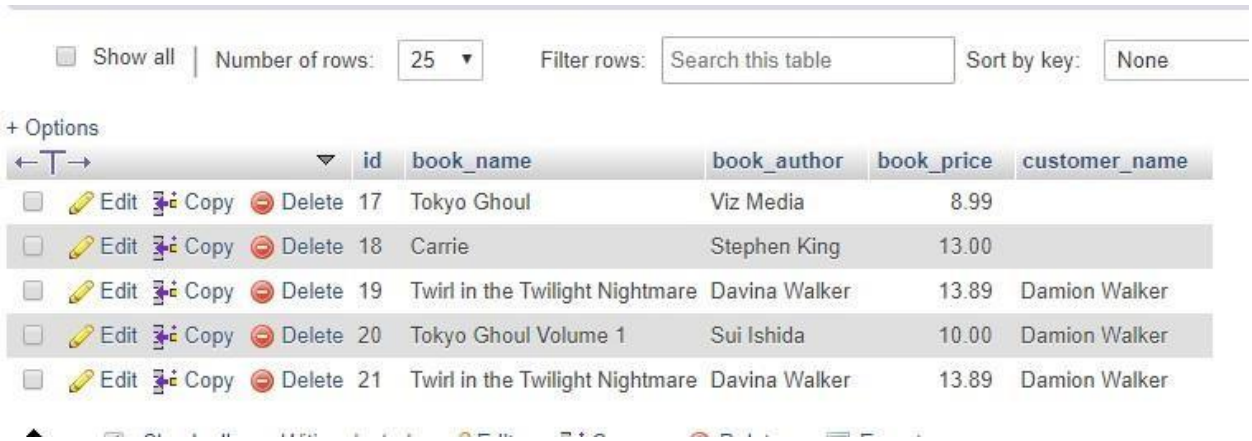
ID	Book Name	Author	Book Price	Customer Name	Edit
17	Tokyo Ghoul	Viz Media	$8.99		
18	Carrie	Stephen King	$13.00		
19	Twirl in the Twilight Nightmare	Davina Walker	$13.89	Damion Walker	
20	Tokyo Ghoul Volume 1	Sui Ishida	$10.00	Damion Walker	
21	Twirl in the Twilight Nightmare	Davina Walker	$13.89	Damion Walker	
22	Twirl in the Twilight Nightmare	Davina Walker	$13.89	Damion Walker	

After it is in our form, you'll click the smaller red delete button. After deleting the record you'll get a "successfully deleted" message at the top. Now that our record has been deleted you can see it's now gone from our program.



ID	Book Name	Author	Book Price	Customer Name	Edit
17	Tokyo Ghoul	Viz Media	$8.99		
18	Carrie	Stephen King	$13.00		
19	Twirl in the Twilight Nightmare	Davina Walker	$13.89	Damion Walker	
20	Tokyo Ghoul Volume 1	Sui Ishida	$10.00	Damion Walker	
21	Twirl in the Twilight Nightmare	Davina Walker	$13.89	Damion Walker	

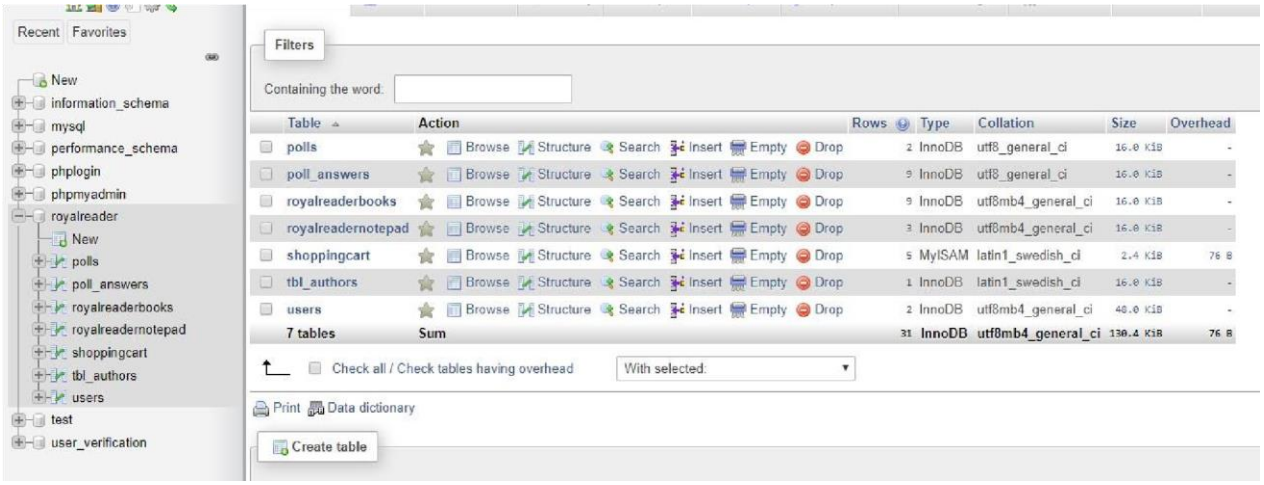
And in the Database:



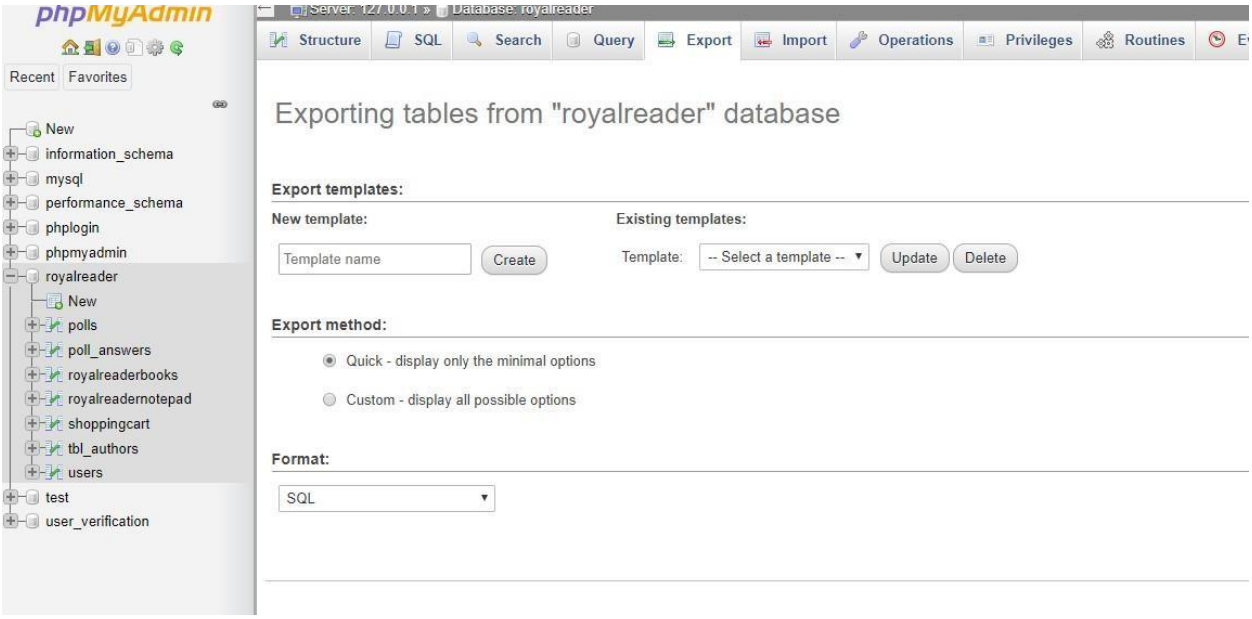
While this shopping cart is manual rather than doing everything in the background, it allows you to purchase books and put them in a shopping cart then add this to our database. The shopping cart is a complete CRUD application by providing four buttons that allow CREATE, READ, UPDATE, and DELETE, or if you want DELETE ALL to completely empty the table.

Database Backup

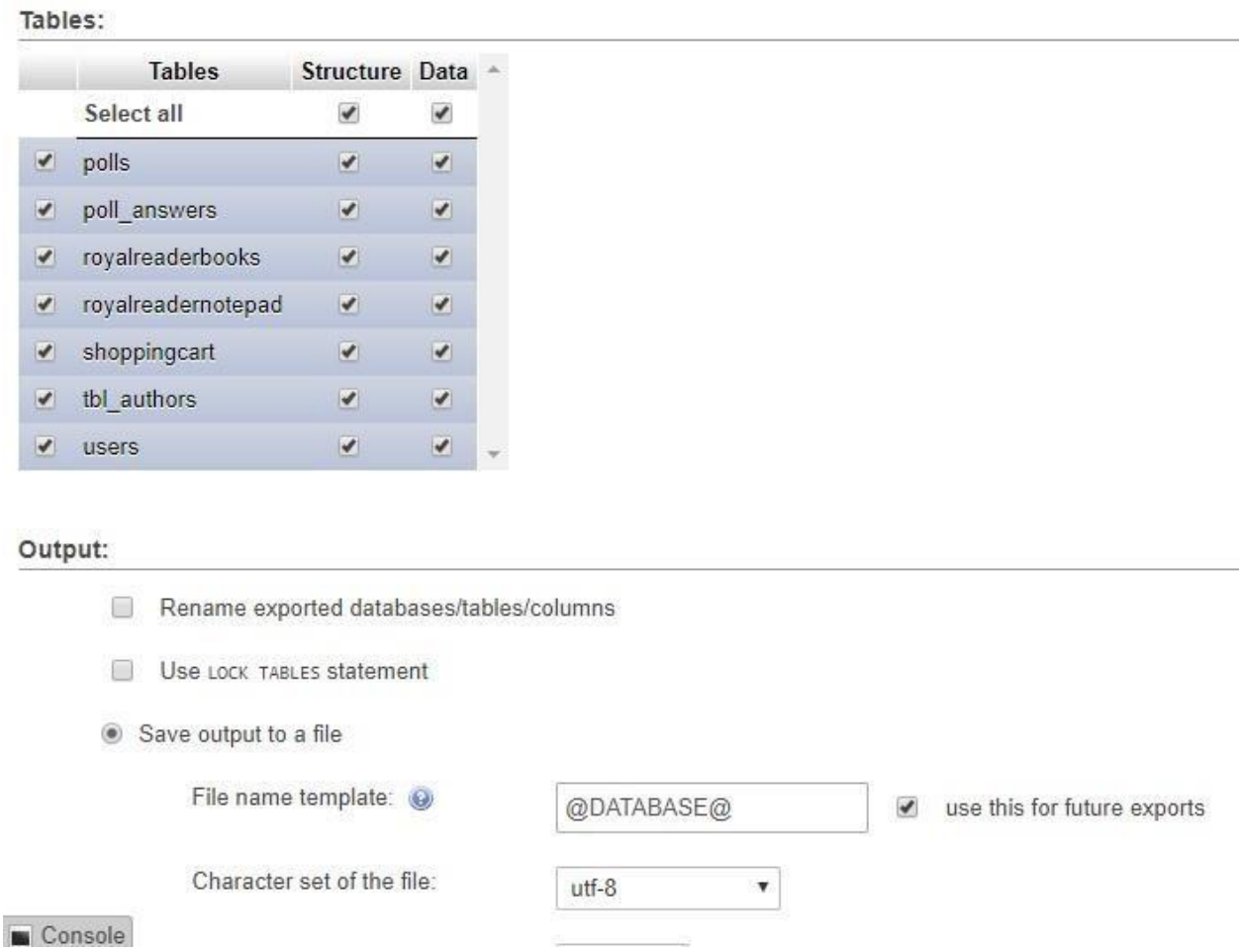
The Backing up of the data base is one of the most important things to worry about, losing data in the event of a outage or system crash could result in the loss of customers and records in a business world and some places would even face legal action for losing such things. Back up is the user's responsibility and as such I will go through how to do it. First, you need to go to the database in localhost/phpMyAdmin.



After clicking on the database you want to work with click on the export tab to download it.



After you click the export tab you'll be taken to this screen. Once you're on this screen you'll have two options, quick or custom. We'll be using the custom for this example however if you're not working with a lot of time, you'll use quick.



With this you can customize and edit how and what the data is you include. To make this easier we'll add "Add Create Tables" and "Add Drop tables" because then we won't have to manually create and drop the tables ourselves. After you do it, press go, and the data will be successfully downloaded to our computer. With the database downloaded we can then export it if we liked, the instructions for export are in our installation instructions. But follow this to successfully back up the data onto your computer. You can optimize and choose where you like to save them at your own discretion.

Re-Install Backup

To reinstall the database backup simply go to localhost/phpMyAdmin.

In the navigator tabs click the "Import" which will allow us to reinstall the backup database.

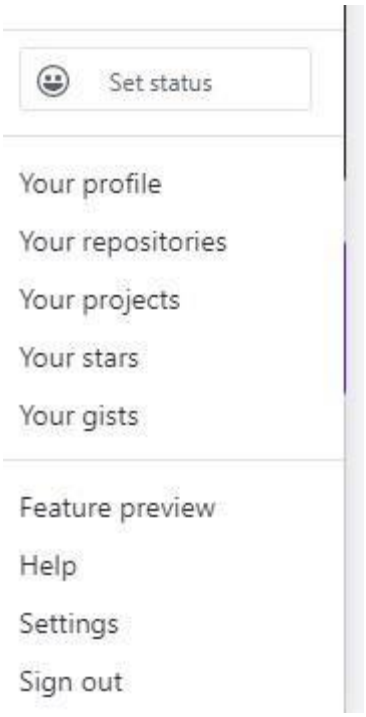
You will then choose the file, in this cause, royalreader.sql. And then you can choose to "enable foreign key checks" and all the other options. After filling this out go to the bottom and click go.

You have successfully executed and imported the sql database.

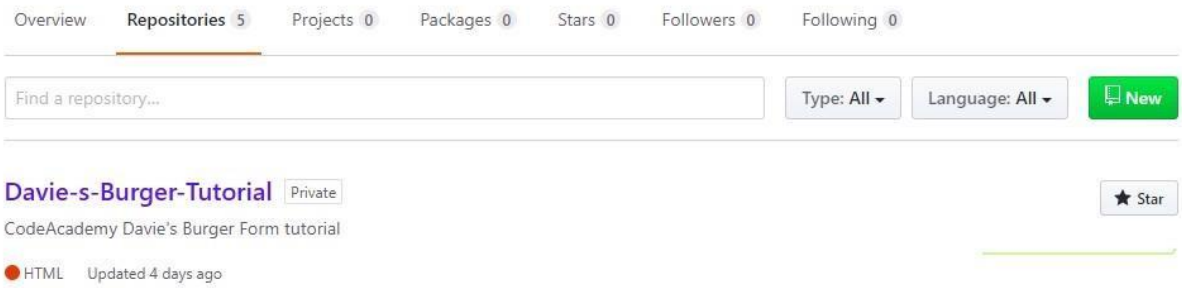
Application Backup

We have successfully demonstrated how to back up our database however it's important to also back up our application aka the code of our program in order to not lose it either. To do this we're going to use GitHub. GitHub is a free software hosting platform. To start go to https://github.com/.

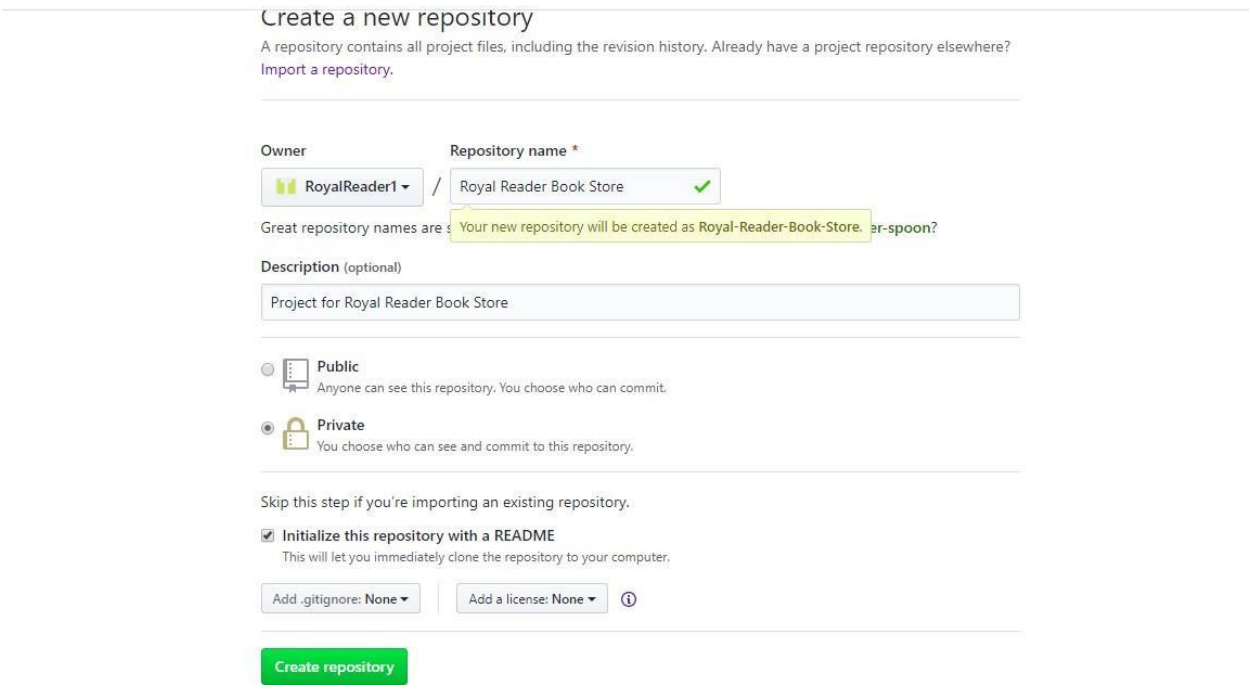
If you're not a registered user, you will have to create an account and follow the registration instructions however if you already have a GitHub account you can simply login and go to your repositories'. To access this, click on your profile.



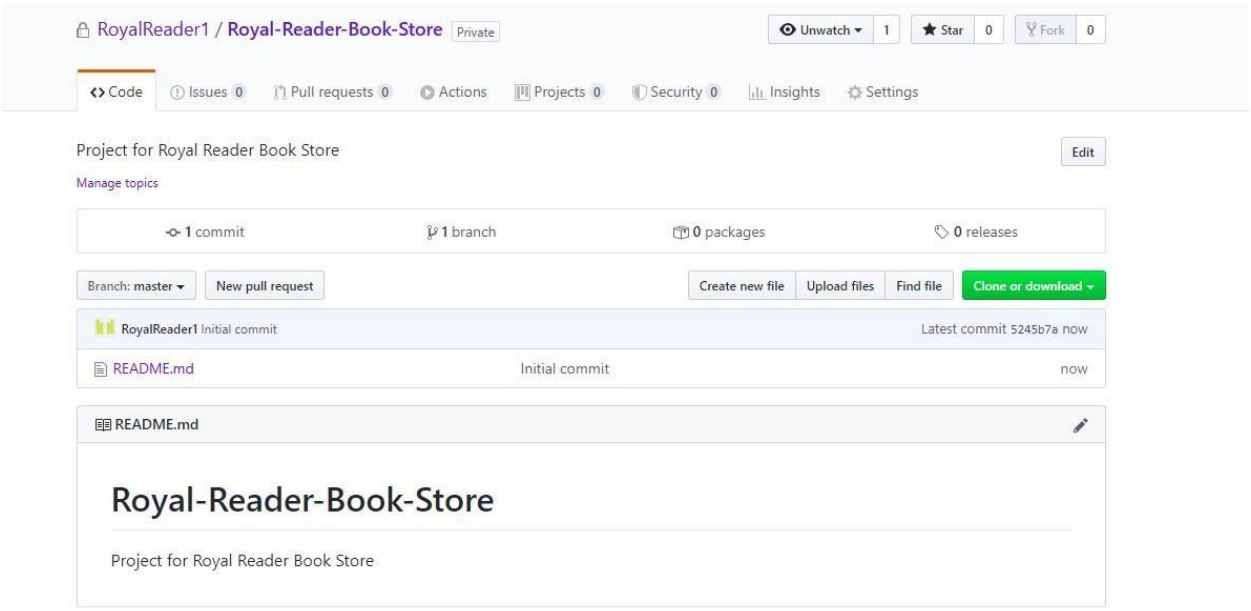
After clicking on “Your repositories” you’ll be taken where you can view all your current repositories and other information about your profile.



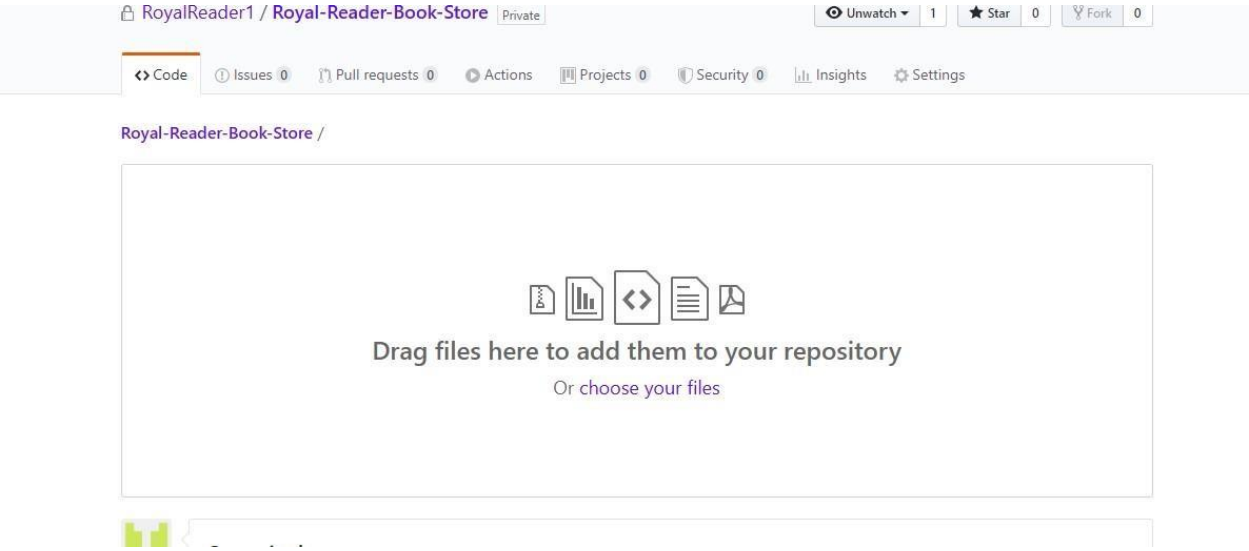
In this page, click the “New” button.



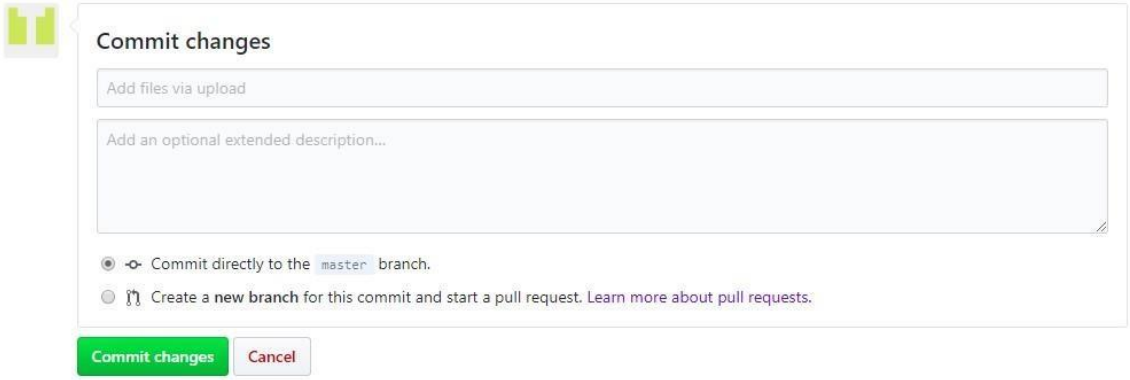
On this page you will then add a “Repository Name”, the Description, and choose private or public. I will set the name as “Royal Reader Book Store” set the description as “Project for Royal Reader Book Store” and then choose “private” , and last check the “Initialize this repository with a README”. After finishing click the “Create repository button” at the end and this will take you directly to your new repository.



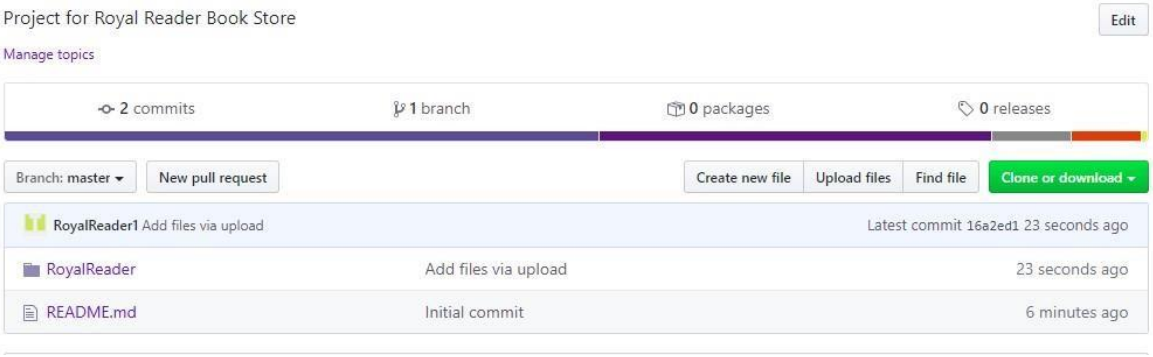
Now what we need to do is to import our application data. To start press “Upload Files”.



You can either find the files by searching for them or to go to the folder and directly drag them to your repository. Go to your htdocs and find the “RoyalReader” folder and drop the entire folder here. Make sure it’s unzipped beforehand. After it’s finished uploading all the files go to the bottom and click “commit changes”.



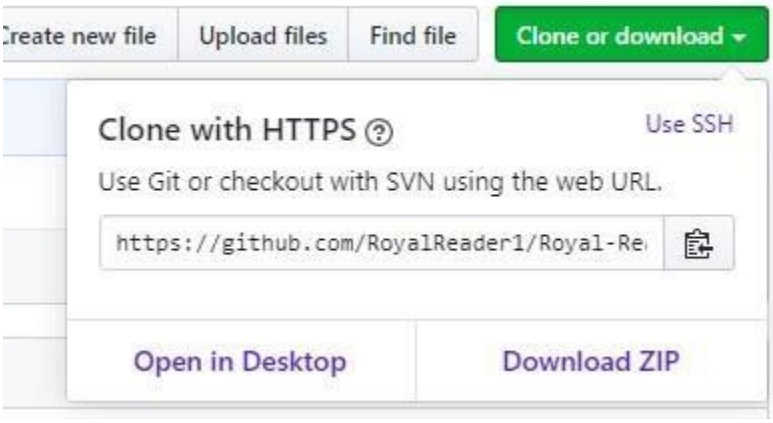
Your files will then begin to process and you will have to wait for them to load.



We have successfully loaded our file along with the ReadME which explains what it's about.

Re-Install the Application

To reinstall which in the Royal Reader repository, click "Clone or download".



We will then Download Zip and this will instantly download the entire folder. So, using GitHub we can save our entire application and reinstall it all instantaneously and instantly. We can make it private so only we can access it and therefore view and download the information.

Operating System Requirements

You can use any computer system to access the Royal Reader program if you can access the internet through a browser. Recommended browsers are as follows: Explorer 11, Mozilla Firefox 41.0, and Google Chrome 47.0. Older browser versions might work as well but you could find some inconsistency in the page layout. All our html files include the <DOCTYPE html5> which tells our computer we are using html5 standards, so in the future this tells our browser to maintain this layout even if html5 is obsolete however this also means that older browser versions may have inconsistencies and the program and how it looks.

Database Software Requirements

The Database Software used for this program is Xxamp powered through localhost/phpMyAdmin. You will need these two in order to access our database. You will need to turn on both Apache and

mysql in order to access this database. Failing to start these will result in the database not being able to be accessed.