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| Defect # | Defect | Output Before Seeding | Output After Seeding | Suggested Correction | Black / White Box Testing | Severity |
| 1 | Creating a user doesn’t actually add them to the database | User would be added to database | User is not added to database | Add user.save() to signup function to apply database change | White | 1 |
| 2 | Creating a user doesn’t tell if email is already taken | Goes to page saying email is already taken | Goes to page saying thank you for signing up | Return an httpresponse in a try/catch after trying to create the user that redirects to a page that says email is in use | Black | 1 |
| 3 | Buy It button on main page is not active | Redirect to thank you for your purchase page | Button is not clickable | Add link to thank you for your purchase page on the button | Black | 3 |
| 4 | Creating a book doesn’t actually add them to the database | Book would be added to database | Book is not added to database | Add book.save() to make function to apply database change | White | 1 |
| 5 | No prompt is shown when trying to add a book with an invalid ISBN | Invalid ISBN page would be displayed | Thank you adding book page is displayed | Add call to validate function in make book function that returns if it is not valid | Black | 2 |
| 6 | Sign up page does not have a CSS linked in HTML | Signup page has borders and colors | Signup page is a black and white with no styling | Add link to corresponding CSS page in signup.html | Black | 3 |
| 7 | When generating the url to pull json for a book’s ISBN, the same ISBN is always used | ISBN is concatenated to url based on what user enters in the isbn add page | The same ISBN is always concatenated to the url | Dynamically add isbn to end of url in helper file | Black | 2 |
| 8 | User is not validated that they exist in the database when they sign in | On sign in, query the database to make sure that user signing in exists and that password is correct | The database is not queried and user is logged in with whatever email they provide, no password validation is done | Validate that the user with password exists in database | White | 2 |
| 9 | No input box for isbn in addBook.html | There is a box in which the user can enter an ISBN for a book | There is no box in which the user can put an ISBN | Add input type tag with appropriate fields in addBook.html | Black | 1 |
| 10 | Removed set\_cookie function for user login | On the sign in page, after a user signs in a persistent cookie is stored containing their login info | No cookie is stored | Store cookie after user logs in in the sign in view | White | 2 |
| 11 | Home button is not clickable on the main page | Home page would be refreshed | Home page is not refreshed | Add link to the Home button that refreshes the main page | Black | 3 |
| 12 | Logo button is not clickable on the main page | Home page would be refreshed | Home page is not refreshed | Add link to the Logo button that refreshes the main page | Black | 3 |
| 13 | Sign in page does not have a CSS linked in HTML | Sign in page has borders and colors | Sign in page is a black and white with no styling | Add link to corresponding CSS page in signin.html | Black | 3 |
| 14 | Swapped sign in and sign up links | Signup link goes to the signup page and Sign in page goes to the sign in page | Signup page goes to the signin page and visa versa | Swap the links back | Black | 1 |
| 15 | Overview page does not have a CSS linked in HTML | Overview page has borders and colors | Overview page is a black and white with no styling | Add link to corresponding CSS page in overview.html | Black | 3 |
| 16 | addBook page does not have a CSS linked in HTML | addBook page has borders and colors | addBook page is a black and white with no styling | Add link to corresponding CSS page in addBook.html | Black | 3 |
| 17 | Email for a new user has no check to make sure it is in an email format | Email invalid page is shown when an invalid email is entered | Email invalid page is not shown no matter what the email is | Change email data type to EmailField in the models.py file | White | 2 |
| 18 | Sign in password field is uneditable | User is able to type in password field | User cannot type in password text field | Remove readonly attribute in password input field from signin.html | Black | 1 |
| 19 | There is no user table to store user | When a user signs up for the first time, their email and password are added to the database | There is no table in the database to add user emails and passwords | A database migration needs to be done | White | 2 |
| 20 | There is no unique field for User, Sale, and Book model in model.py | Single unique constraint for model and database throws error if it already exists | Can have multiple non unique Users, Sales and Books | Add unique=True fields in the parameters for the models | White | 2 |
| 21 | The json parser to grab book authors looks for the second book in the raw json, not the first | The json parser for author grabs from the first book | The json parser grabs from the second book, which may or may not exist | Update the model functions for Book to grab the right book from raw json | White | 2 |
| 22 | The raw json field for Books in the database cannot hold more than 500 chars | The raw json field was allotted 100000 chars, so if there is not likely to be too much json | The database will only store the first 500 chars of the returned json | Update the amount it can hold and do a migration | White | 2 |
| 23 | No validation if a password is blank | In the signup page, the site will not create a user with a blank password | It will allow a blank password wo be a valid password | Update the conditionals for the User model | Black | 3 |
| 24 | ISBN validation is always positive | In the helper for createbook, the ISBN validator will not accept ISBNs on a number of conditions | The ISBN validator always accepts an ISBN regardless of the input | Validate ISBNs based on the conditions of an ISBN number | White | 2 |
| 25 | Purchase route directs to overview controller | The purchase page goes to the purchase controller to complete transaction | The purchase controller links to the index page | Update route so that the purchase route goes to the purchase controller | Black | 1 |