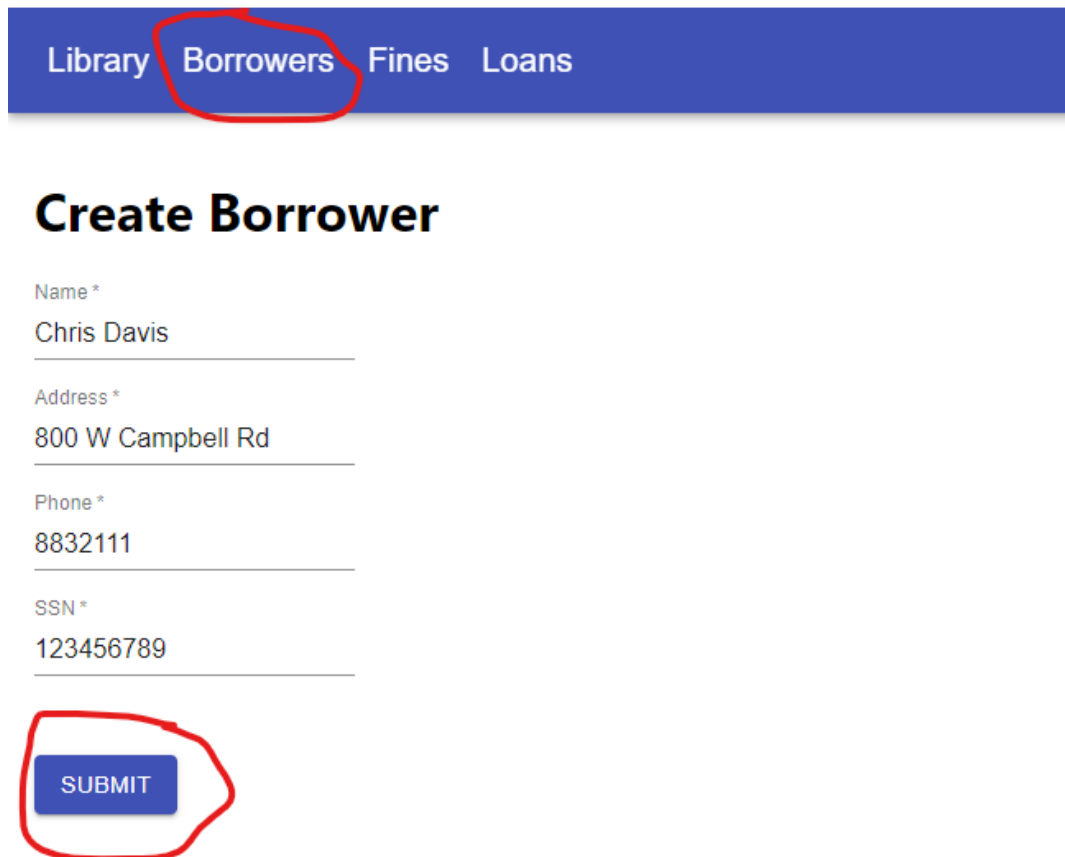


SQL Library User Guide

Team Silver

Create a borrower account:

In order to check out books or view any account details, an account must first be created. With an account, you can view current book loans, unpaid fines, and paid fines. To create an account, first select the Borrowers tab on the top of the screen. Then enter all required information in the fields provided, and press "Submit". In the top right of the screen, a card number will be provided for your use.



The screenshot displays the 'Create Borrower' form within the SQL Library application. At the top, a blue navigation bar contains four tabs: 'Library', 'Borrowers', 'Fines', and 'Loans'. The 'Borrowers' tab is highlighted with a red circle. Below the navigation bar, the title 'Create Borrower' is prominently displayed. The form consists of five input fields, each with a label and an asterisk indicating it is required: 'Name *', 'Address *', 'Phone *', 'SSN *', and a 'SUBMIT' button. The 'Name' field contains 'Chris Davis', 'Address' contains '800 W Campbell Rd', 'Phone' contains '8832111', and 'SSN' contains '123456789'. The 'SUBMIT' button is a blue rectangle with white text, and it is highlighted with a red circle.

Library	Borrowers	Fines	Loans
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Create Borrower

Name *

Chris Davis

Address *

800 W Campbell Rd

Phone *

8832111

SSN *

123456789

SUBMIT

Successfully created new borrower.
Card number is 3

Find a book:

To find a book, any combination of title, isbn, author first name, or author last name can be used. To do this, select the library tab in the upper left corner of the screen. Once on the library page, enter a query in the search bar provided. Results will be provided in real time.

The screenshot shows a library application interface. At the top, a blue navigation bar contains the tabs 'Library', 'Borrowers', 'Fines', and 'Loans'. The 'Library' tab is selected and highlighted with a red circle. Below the navigation bar, the word 'Library' is displayed. A search bar is present with the text 'Search for book by ISBN, title, or author...' and the input 'tom'. Below the search bar, five book covers are displayed in a row. Each book cover includes the title, author, page count, and a 'Checked Out' status. The books shown are: 'The Secret Life Of Sally Tomato' by Jean Ure, 'The Lives Of Christopher Chant' by Diana Wynne Jones, 'Tommy's Tale' by Alan Cumming, 'Girl Anatomy: A Novel' by Rebecca Bloom, and 'Martha Stuart's Better Than You at Entertaining' by Tom Connor.

Book Title	Author	Pages	Checked Out
The Secret Life Of Sally Tomato	Jean Ure	160	Not Checked Out
The Lives Of Christopher Chant	Diana Wynne Jones	336	Not Checked Out
Tommy's Tale	Alan Cumming	261	Not Checked Out
Girl Anatomy: A Novel	Rebecca Bloom	272	Not Checked Out
Martha Stuart's Better Than You at Entertaining	Tom Connor	64	Not Checked Out

Check out a book:

Checking out a book will tie that book to your account, and a return date will be given to you. If you do not return the book before the return date, you will begin incurring fines. To check out a book, select "Details" on the book you wish to borrow. If the status says "Not checked out", you will be able to click "Checkout", enter your library card number, then click "Checkout" once more to borrow the book.

You should receive a confirmation notification in the top right corner, and the status of the book should change to “Checked out”.

The screenshot shows a library app interface. At the top, the book title "Tommy's Tale" is displayed with "261 pages" below it. A modal window titled "Check Out" is centered on the screen. Inside the modal, it says "You are attempting to check out **Tommy's Tale**." followed by "Please provide us with your **library card number** to proceed." Below this is a text input field labeled "Library Card Number" containing the digit "3". At the bottom of the modal are two buttons: a pink "CANCEL" button on the left and a blue "CHECKOUT" button on the right. The "CHECKOUT" button in the modal is circled in red. In the background, below the modal, the book's author "ALAN" is visible. Further down, the text "Written by: Alan Cumming", "Isbn: 0060394447", and "Publisher: Regan Books" are listed. The status "Checked Out: Not Checked Out" is shown, with "Not Checked Out" underlined in red. At the bottom of the background interface are three buttons: "GO BACK", "RETURN", and "CHECKOUT". The "CHECKOUT" button at the bottom is also circled in red.

View currently checked out books:

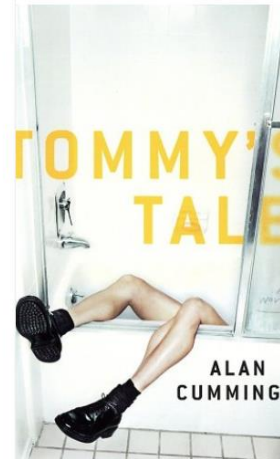
To view your currently checked out books, navigate to the “Loans” tab on the top left of the screen. Then type your borrower card number in the search bar, and all checked out books should appear.

Loans

Search by card number, name, or isbn...

3

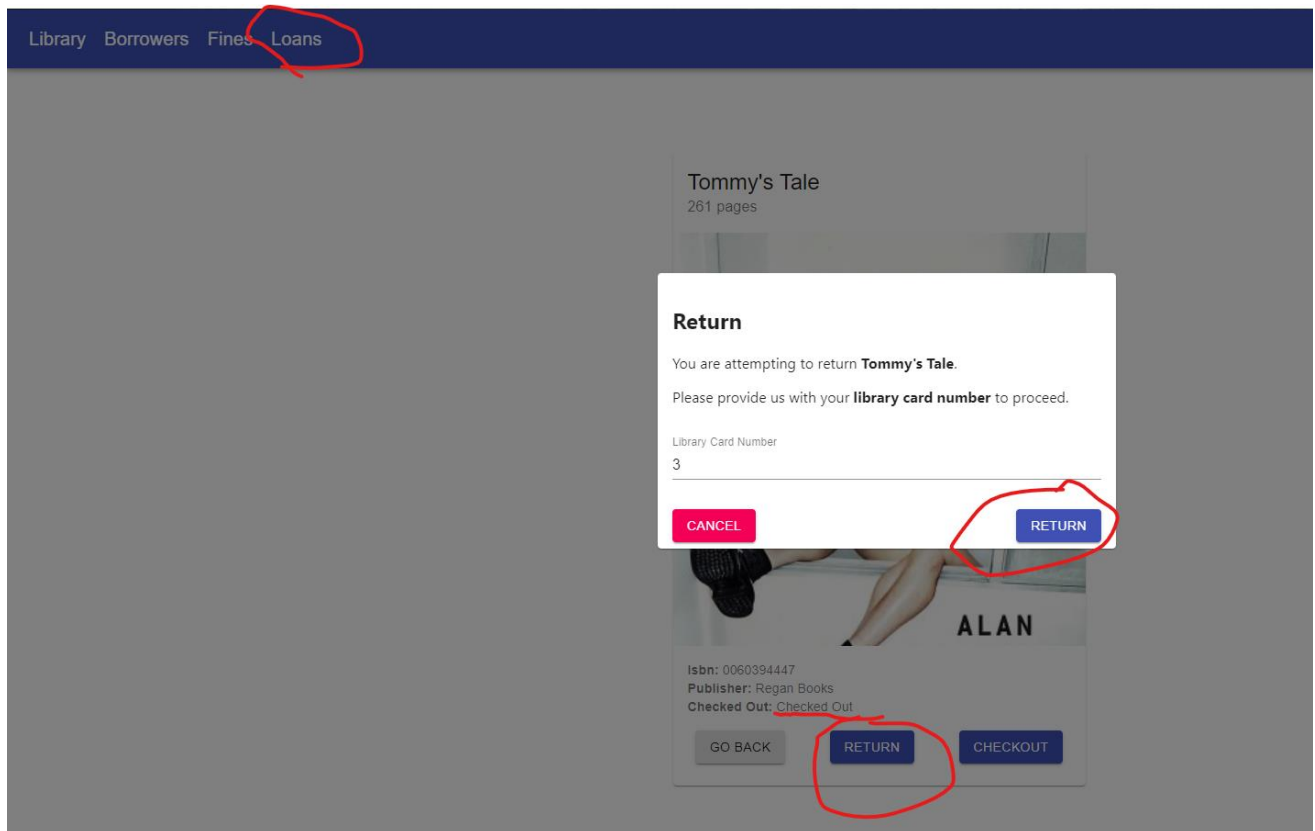
Tommy's Tale
261 pages



Isbn: 0060394447
Publisher: Regan Books
Checked Out: Checked Out

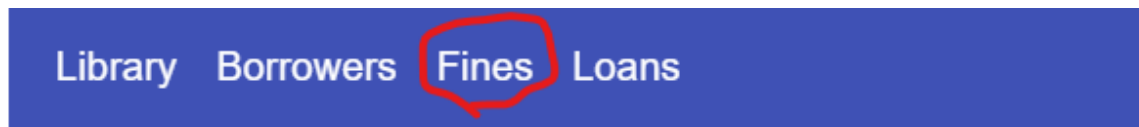
Return a book:

To return a book, first navigate to the “Loans” tab on the top left of the screen. Then, in the search box, enter your borrower card number. When the book you would like to return appears, select “Details”. When on the book details page, select “Return”, enter your borrower card number, then select “Return” again. You should receive a confirmation notification on the top right of the screen.

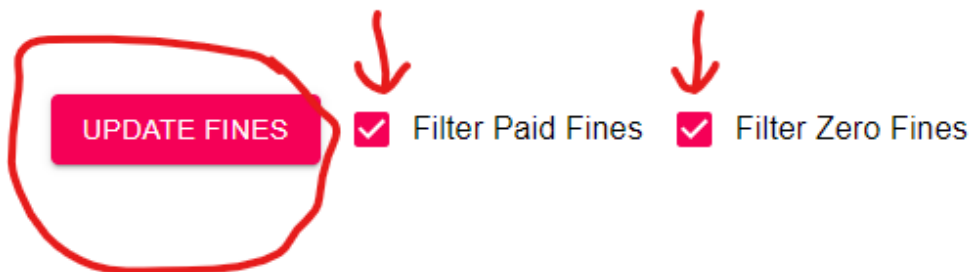


View any outstanding fines

To view any fines you may not yet have paid, select the “Fines” tab in the top left corner. Check the “Filter paid fines” and “Filter zero fines” checkboxes, then select “Update fines”. If any outstanding fines have not been paid, they will now appear.



Fines



Setup Troubleshooting

Backend setup:

While setting up the project, if an error is produced while trying to execute “node index.js” and its error code is “ER_NOT_SUPPORTED_AUTH_MODE”, the solution is to open the sql setup file (LibraryDmp(checkpoint1).sql) and at the bottom, add the following code:

```
ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'password'
```

After an execution of this code, the command “node index.js” should now be able to execute, and the backend should be successfully set up.

Frontend setup:

While setting up the project, if an error is produced while trying to execute “npm start”, and its error code is “ELIFECYCLE”, an edit to the file “package.json” must be made. On line 17 (the line starting with “start”: “PORT ...”), replace the line with the following code:

```
“start”: “SET PORT=3001 && react-scripts start”
```

The command “npm start” should now work.