

Quick Start User Guide

Library Management System
CS 4347.002
Beryllium

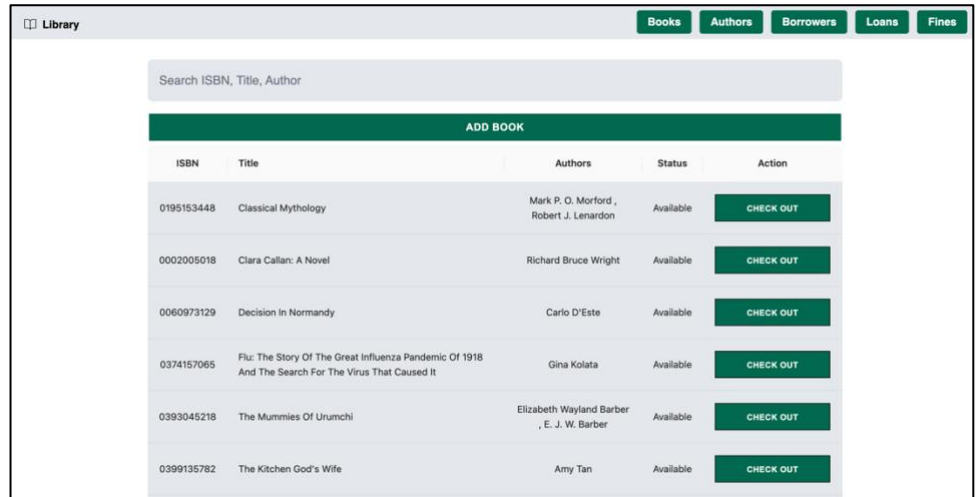
This Quick Start User Guide outlines the major functionalities within the pages of the application.

Books:

Book Search permits searching by ISBN, title, or Author.

Queries are not case sensitive and support substring matching.

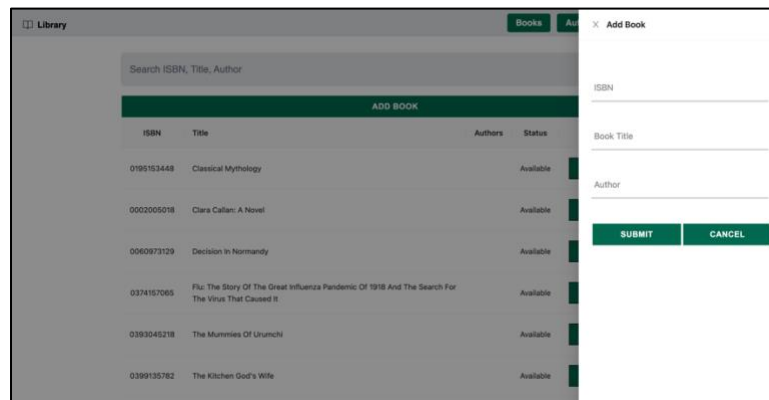
Check-out buttons for each book prompts librarians for Borrower ID for the given ISBN and book title.



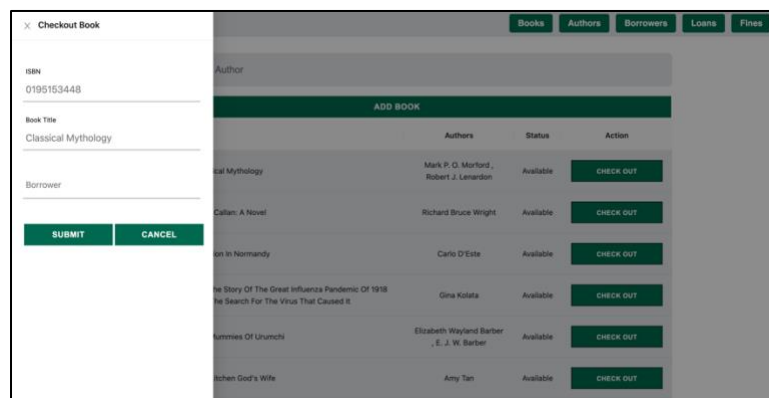
The screenshot shows the 'Library' application with the 'Books' tab selected. A search bar at the top allows searching by ISBN, Title, or Author. Below the search bar is an 'ADD BOOK' button. The main content is a table of books with columns for ISBN, Title, Authors, Status, and Action. Each row has a green 'CHECK OUT' button in the Action column.

ISBN	Title	Authors	Status	Action
0195153448	Classical Mythology	Mark P. O. Morford , Robert J. Lenardon	Available	CHECK OUT
0002005018	Clara Callan: A Novel	Richard Bruce Wright	Available	CHECK OUT
0060973129	Decision In Normandy	Carlo D'Este	Available	CHECK OUT
0374157065	Flu: The Story Of The Great Influenza Pandemic Of 1918 And The Search For The Virus That Caused It	Gina Kolata	Available	CHECK OUT
0393045218	The Mummies Of Urunchi	Elizabeth Wayland Barber , E. J. W. Barber	Available	CHECK OUT
0399135782	The Kitchen God's Wife	Amy Tan	Available	CHECK OUT

In addition to Book Search and Check-out, Add Books permits the addition of books to the table.



The screenshot shows the 'Add Book' modal form. It has a title bar 'Add Book' with a close button. The form contains three input fields: 'ISBN', 'Book Title', and 'Author'. At the bottom are 'SUBMIT' and 'CANCEL' buttons.



The screenshot shows the 'Checkout Book' modal form. It has a title bar 'Checkout Book' with a close button. The form contains three input fields: 'ISBN' (pre-filled with '0195153448'), 'Book Title' (pre-filled with 'Classical Mythology'), and 'Borrower'. At the bottom are 'SUBMIT' and 'CANCEL' buttons.

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Borrowers:

The Borrowers page allows for the addition of new borrowers into the system.

All attributes are required to create a new account; therefore, values cannot be left blank.

Borrowers are *not* created the ssn already exists in the system.

When a new borrower is created, a unique Borrower ID is generated as well.

The screenshot shows the 'Add Borrower' form in the Library Management System. The form is open, showing fields for SSN, Full Name, Billing Address, and Phone Number. A table of existing borrowers is visible in the background.

Borrower ID	Ssn	Full Name	Home Address	Phone
ID000001	850473740	Mark Morgan	5677 Coolidge Street	4699041438
ID000002	256954382	Eric Warren	9062 Schurz Drive	2147018127
ID000003	256515268	Robert Harper	7786 Sachs Place	2148755911
ID000004	976952914	Donna Franklin	3 Magdeline Terrace	2148006127
ID000005	906633588	Linda King	41260 Kedzie Terrace	4692132549
ID000006	206267141	Judy Holmes	6583 Manitowish Hill	9728985909
ID000007	898613567	Deborah Lawrence	2 Hermina Trail	9729002951
ID000008	644250492	Adam Johnston	05671 Norway Maple Court	4697430176
ID000009	678124697	Pamela Carr	1848 Fordem Avenue	9722479852
ID000010	562337951	Daniel Fisher	400 Cody Lane	2148917743

Team Beryllium

The screenshot shows the 'Add Borrower' form in the Library Management System. The form is open, showing fields for SSN, Full Name, Billing Address, and Phone Number. A table of existing borrowers is visible in the background. An error message is displayed at the top: "Error: Request denied... 850473740 is already in use. Please enter a unique ssn number."

Borrower ID	Ssn	Full Name	Home Address	Phone
ID000001	850473740	Mark Morgan	5677 Coolidge Street	4699041438
ID000002	256954382	Eric Warren	9062 Schurz Drive	2147018127
ID000003	256515268	Robert Harper	7786 Sachs Place	2148755911
ID000004	976952914	Donna Franklin	3 Magdeline Terrace	2148006127
ID000005	906633588	Linda King	41260 Kedzie Terrace	4692132549
ID000006	206267141	Judy Holmes	6583 Manitowish Hill	9728985909
ID000007	898613567	Deborah Lawrence	2 Hermina Trail	9729002951
ID000008	644250492	Adam Johnston	05671 Norway Maple Court	4697430176
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ID000010	562337951	Daniel Fisher	400 Cody Lane	2148917743

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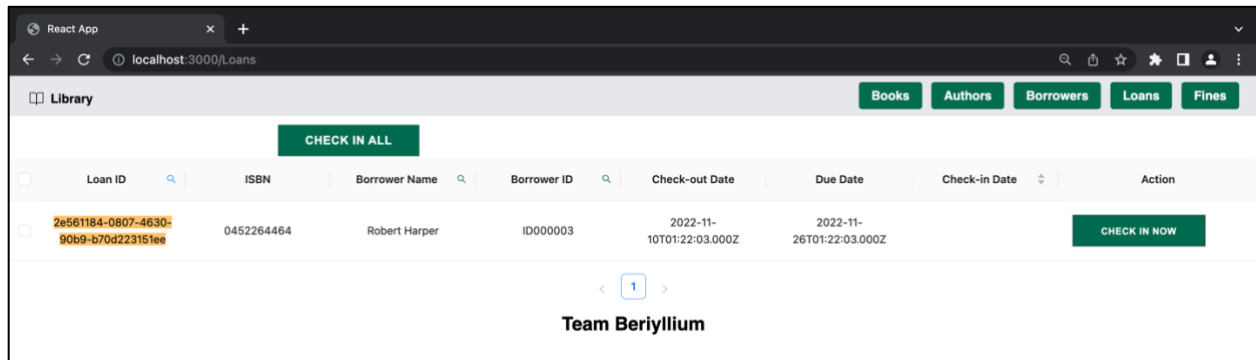
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Loans:

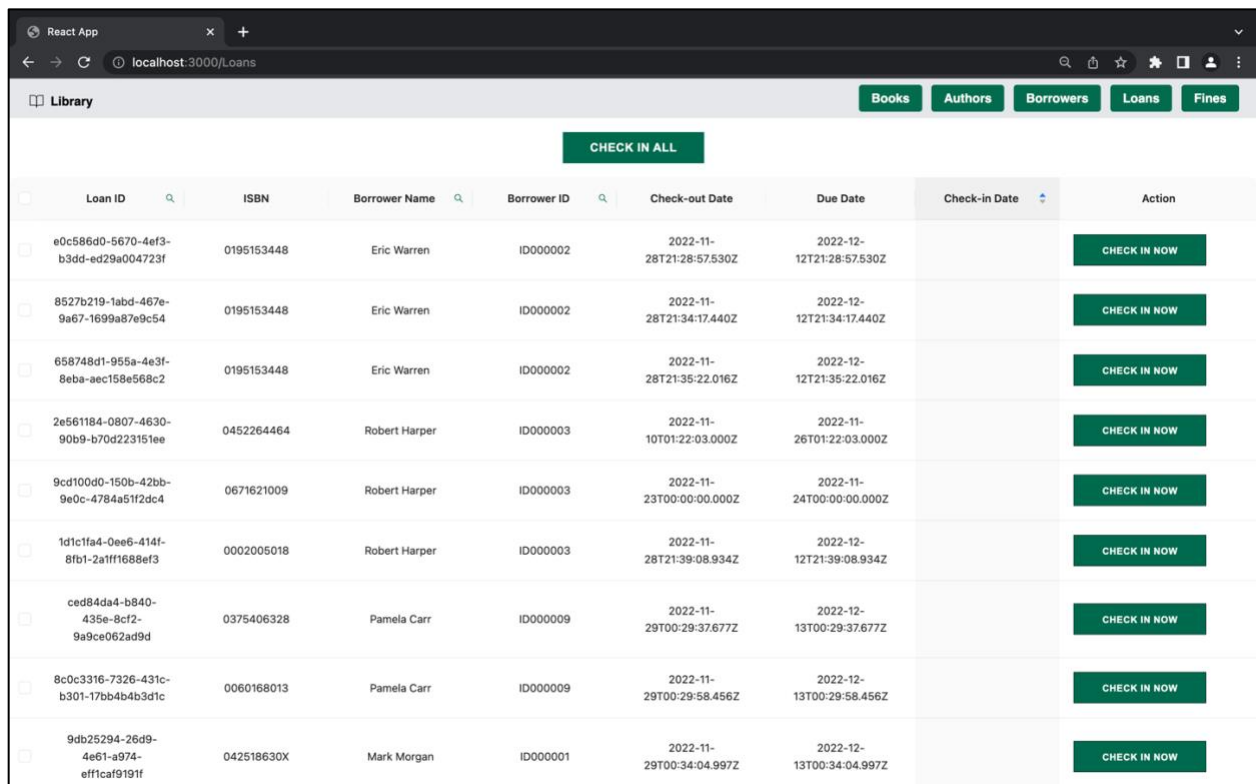


Loan ID	ISBN	Borrower Name	Borrower ID	Check-out Date	Due Date	Check-in Date	Action
2e561184-0807-4630-90b9-b70d223151ee	0452264464	Robert Harper	ID000003	2022-11-10T01:22:03.000Z	2022-11-26T01:22:03.000Z		CHECK IN NOW

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Loans can be filtered by Loan ID, Borrower Name, and Borrower ID for quicker lookup.

In addition to searching, Check-in Date can be sorted with the latest checking date appearing first. When Check-in Date is sorted in descending order, loans are most likely to have already been checked-in.



Loan ID	ISBN	Borrower Name	Borrower ID	Check-out Date	Due Date	Check-in Date	Action
e0c586d0-5670-4ef3-b3dd-ed29a004723f	0195153448	Eric Warren	ID000002	2022-11-28T21:28:57.530Z	2022-12-12T21:28:57.530Z		CHECK IN NOW
8527b219-1abd-467e-9a67-1699a87e9c54	0195153448	Eric Warren	ID000002	2022-11-28T21:34:17.440Z	2022-12-12T21:34:17.440Z		CHECK IN NOW
658748d1-955a-4e3f-8eba-aec158e568c2	0195153448	Eric Warren	ID000002	2022-11-28T21:35:22.016Z	2022-12-12T21:35:22.016Z		CHECK IN NOW
2e561184-0807-4630-90b9-b70d223151ee	0452264464	Robert Harper	ID000003	2022-11-10T01:22:03.000Z	2022-11-26T01:22:03.000Z		CHECK IN NOW
9cd100d0-150b-42bb-9e0c-4784a51f2dc4	0671621009	Robert Harper	ID000003	2022-11-23T00:00:00.000Z	2022-11-24T00:00:00.000Z		CHECK IN NOW
1d1c1fa4-0ee6-414f-8fb1-2a1ff1688ef3	0002005018	Robert Harper	ID000003	2022-11-28T21:39:08.934Z	2022-12-12T21:39:08.934Z		CHECK IN NOW
ced84da4-b840-435e-8cf2-9a9ce062ad9d	0375406328	Pamela Carr	ID000009	2022-11-29T00:29:37.677Z	2022-12-13T00:29:37.677Z		CHECK IN NOW
8c0c3316-7326-431c-b301-17bb4b4b3d1c	0060168013	Pamela Carr	ID000009	2022-11-29T00:29:58.456Z	2022-12-13T00:29:58.456Z		CHECK IN NOW
9db25294-26d9-4e61-a974-eff1caf9191f	042518630X	Mark Morgan	ID000001	2022-11-29T00:34:04.997Z	2022-12-13T00:34:04.997Z		CHECK IN NOW

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Fines:

Fines are expandable and grouped by Borrowers, so the User can access each of the Borrower's loans.

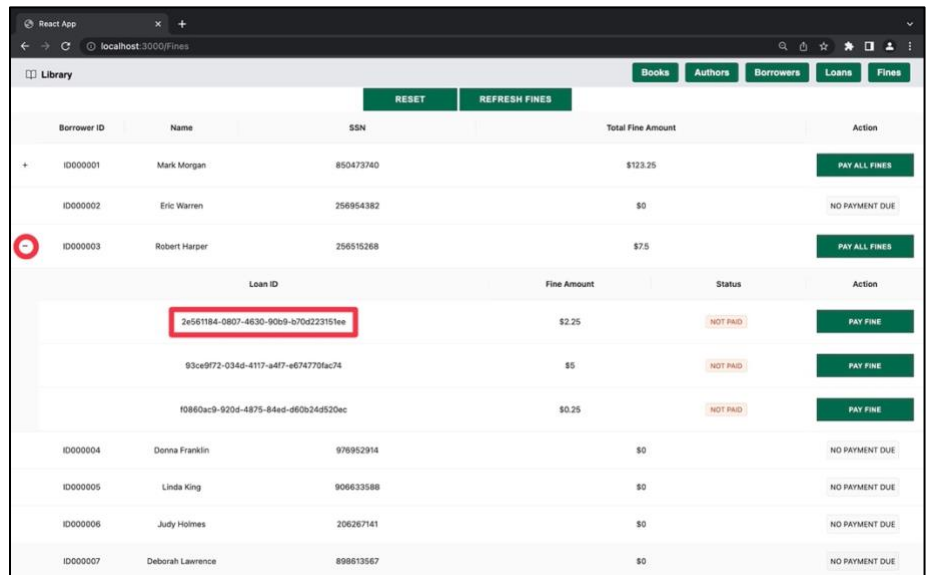
Payments to a fine will not process until the loan is checked-in. To do so, the User can check-in books (see Loans above).

Partial payments may be applied to individual loans.

The status of each loan with partial payments applied will remain unpaid until the full payment has been received.

Individual fines may be accessed for payments, *or*

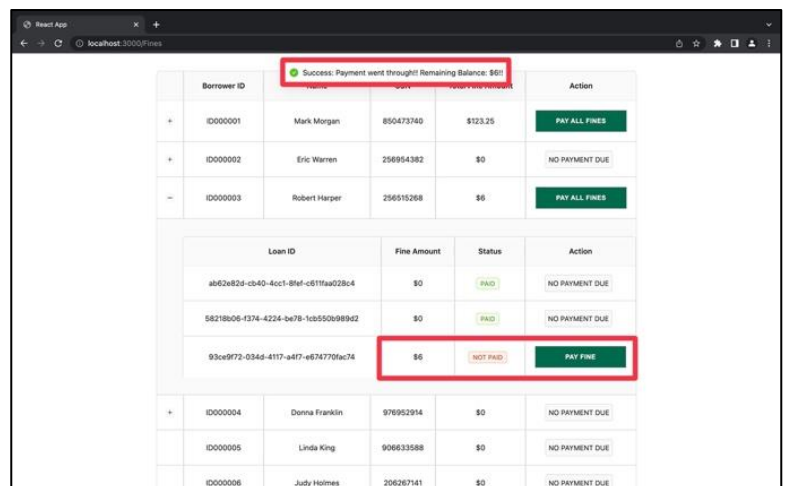
Payments can be applied to all fines in full.



Borrower ID	Name	SSN	Total Fine Amount	Action
ID000001	Mark Morgan	850473740	\$123.25	PAY ALL FINES
ID000002	Eric Warren	256954382	\$0	NO PAYMENT DUE
ID000003	Robert Harper	256515268	\$75	PAY ALL FINES

Loan ID	Fine Amount	Status	Action
2e561184-0807-4630-90b9-b70d22315ee	\$2.25	NOT PAID	PAY FINE
93ce9f72-034d-4117-a4f7-e674770fac74	\$5	NOT PAID	PAY FINE
10860ac9-920d-4875-84ed-d60b24d530ec	\$0.25	NOT PAID	PAY FINE

Borrower ID	Name	SSN	Total Fine Amount	Action
ID000004	Donna Franklin	976952914	\$0	NO PAYMENT DUE
ID000005	Linda King	906633588	\$0	NO PAYMENT DUE
ID000006	Judy Holmes	206267141	\$0	NO PAYMENT DUE
ID000007	Deborah Lawrence	898613567	\$0	NO PAYMENT DUE

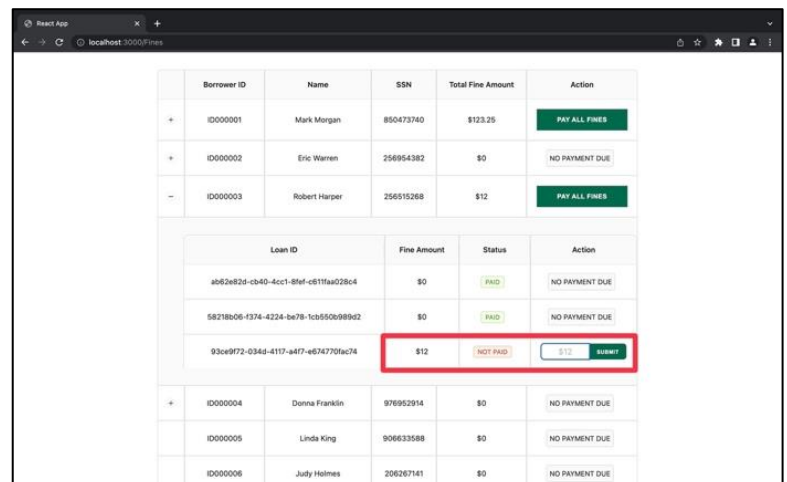


Success: Payment went through! Remaining Balance: \$61

Borrower ID	Name	SSN	Total Fine Amount	Action
ID000001	Mark Morgan	850473740	\$123.25	PAY ALL FINES
ID000002	Eric Warren	256954382	\$0	NO PAYMENT DUE
ID000003	Robert Harper	256515268	\$6	PAY ALL FINES

Loan ID	Fine Amount	Status	Action
ab62e82d-cb40-4cc1-8fef-c811faa028c4	\$0	PAID	NO PAYMENT DUE
58218b06-1374-4224-ba78-1cd550b989d2	\$0	PAID	NO PAYMENT DUE
93ce9f72-034d-4117-a4f7-e674770fac74	\$6	NOT PAID	PAY FINE

Borrower ID	Name	SSN	Total Fine Amount	Action
ID000004	Donna Franklin	976952914	\$0	NO PAYMENT DUE
ID000005	Linda King	906633588	\$0	NO PAYMENT DUE
ID000006	Judy Holmes	206267141	\$0	NO PAYMENT DUE



Borrower ID	Name	SSN	Total Fine Amount	Action
ID000001	Mark Morgan	850473740	\$123.25	PAY ALL FINES
ID000002	Eric Warren	256954382	\$0	NO PAYMENT DUE
ID000003	Robert Harper	256515268	\$12	PAY ALL FINES

Loan ID	Fine Amount	Status	Action
ab62e82d-cb40-4cc1-8fef-c811faa028c4	\$0	PAID	NO PAYMENT DUE
58218b06-1374-4224-ba78-1cd550b989d2	\$0	PAID	NO PAYMENT DUE
93ce9f72-034d-4117-a4f7-e674770fac74	\$12	NOT PAID	\$12 SUBMIT

Borrower ID	Name	SSN	Total Fine Amount	Action
ID000004	Donna Franklin	976952914	\$0	NO PAYMENT DUE
ID000005	Linda King	906633588	\$0	NO PAYMENT DUE
ID000006	Judy Holmes	206267141	\$0	NO PAYMENT DUE

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Fines: (contd.)

<input type="checkbox"/>	Loan ID	ISBN	Borrower Name	Borrower ID	Check-out Date	Due Date	Check-in Date	Action
<input type="checkbox"/>	f0860ac9-920d-4875-84ed-d60b24d520ec	0060973129	Robert Harper	ID000003	2022-11-23T00:00:00.000Z	2022-11-24T00:00:00.000Z		<button>CHECK IN NOW</button>
<input type="checkbox"/>	2e561184-0807-4630-90b9-b70d223151ee	0452264464	Robert Harper	ID000003	2022-11-27T01:22:03.051Z	2022-11-27T01:22:03.051Z		<button>CHECK IN NOW</button>
<input type="checkbox"/>	a9df36fb-19bd-4feb-ba9b-c045f7ba8332	0002005018	Donna Franklin	ID000004	2022-11-27T21:29:28.000Z	2022-12-13T21:29:54.000Z		<button>CHECK IN NOW</button>
<input type="checkbox"/>	71fd2b44-407c-4454-854d-1a137bc3abbb	0393045218	Donna Franklin	ID000004	2022-11-17T22:28:59.000Z	2022-11-19T22:29:03.000Z		<button>CHECK IN NOW</button>

1

ID000004	Donna Franklin	976952914	\$0	NO PAYMENT DUE
Loan ID	Fine Amount	Status	Action	
a9df36fb-19bd-4feb-ba9b-c045f7ba8332	\$0	PAID	NO PAYMENT DUE	
58fafc5c-81d0-4428-aeef-08e78e833c9e	\$0	PAID	NO PAYMENT DUE	

2

Loan ID	Fine Amount	Status	Action
a9df36fb-19bd-4feb-ba9b-c045f7ba8332	\$0	PAID	NO PAYMENT DUE
58fafc5c-81d0-4428-aeef-08e78e833c9e	\$0	PAID	NO PAYMENT DUE
71fd2b44-407c-4454-854d-1a137bc3abbb	\$2.5	NOT PAID	<button>PAY FINE</button>

3

Fines are assessed daily through the refresh button.

Fig. 1-3 show the progression of fines, where figure 1 represents a lone that is late (highlighted Loan ID) and still out but does not have an associated fine yet. Figure 2 represents a refresh, and Figure 3 represents three refreshes.