

Library System User Guide 2019

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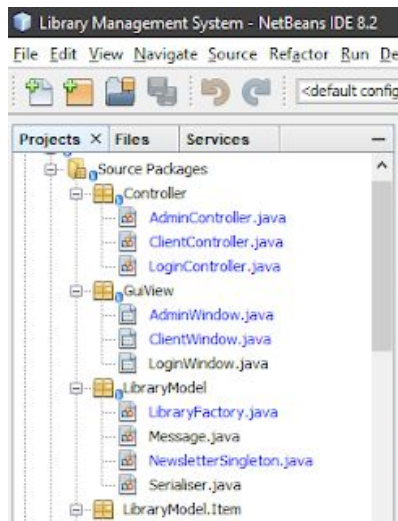
1 Running From Netbeans

1.1 Running Debug

Press the green arrow to start the program



If the program does not run or throws an error, inside the “LibraryFactory.java” class,



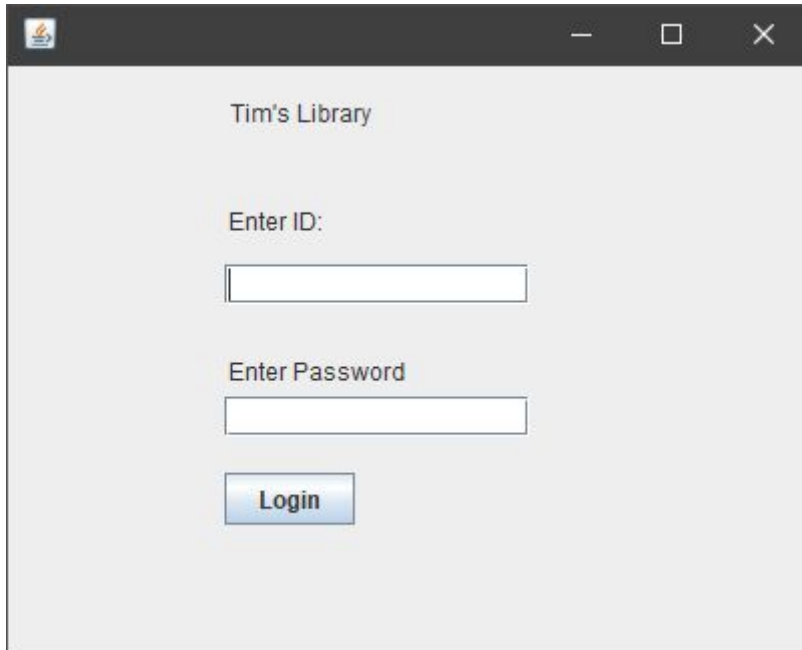
uncomment this line and run the program. Re-comment after the program has run.

```
//Open the Library
public void openLibrary()
{
    //Uncomment the line below to reset the Library to default data
    //resetToDefault();
}
```

2 Login

2.1 How to Login

Enter details into relevant field. Note: the ID usually starts with an A or C followed by numbers. Click the “Login” button after all information is entered.

A screenshot of a web application window titled "Tim's Library". The window has a standard operating system title bar with a minimize button, a maximize button, and a close button. The main content area is light gray and contains the following elements: the title "Tim's Library" at the top, followed by the label "Enter ID:" and a text input field. Below that is the label "Enter Password" and another text input field. At the bottom is a blue button with the text "Login" in white.

2.2 How to Logout



Locate this button in the window and press it. This will log you out.

2.3 Default Accounts

These are the default accounts set into the program:

Admin (Alan Jones)

ID: A0

Password: admin

John Smith

ID: C0

Password: pass

Tom N. Jerry

ID: C1

Password: cheese

Simon Sayes

ID: C2

Password: yes

Bopis Jonson

ID: C3

Password: no

John Johnsons

ID: C4

Password: johnsons

3 Client Window

3.1 Checking Availability of Resource

The screenshot shows a web application interface for a library client. At the top, there is a 'Welcome John Smith' message and a 'Logout' button. A 'News' section displays a message from 2019-08-09. The main area is divided into three columns: 'Resource List', 'Borrowed Resources', and 'Messages'. The 'Resource List' contains a scrollable list of books and DVDs, with '1800, The Adventures of Tim, BOOK' selected. Below the list is a 'Check Availability' button. The 'Borrowed Resources' section has a 'Check Status' button. The 'Messages' section is currently empty. Below the 'Resource List', there is an 'Availability' section for 'The Adventures of Tim' showing it is 'In Stock' and has no ratings. To the right, there is a 'Status' section. Below the 'Availability' section, there is a 'Borrow Length' section with radio buttons for '2 Weeks' (selected) and '6 Months', and a 'Borrow' button. To the right, there is a 'Give your rating on this item' section with a scale from 1 (Bad) to 5 (Good) and a 'Give Rating' button. Below the 'Borrow Length' section, there is a 'Request New Resource' section with a text input field and a 'Request' button. To the right, there is a '£ 0.00' field and a 'Return' button. At the bottom, there is an 'Ask for Extension' section with radio buttons for '3 Days' (selected), '7 Days', and '14 Days', and a 'Request Extension' button.

News: No Title (2019-08-09)

No Text

Welcome John Smith

Logout

Resource List

- 1800, The Adventures of Tim, BOOK
- 2800, The Misadventures of Tim, BOOK
- 3800, The Tim of the World, BOOK
- 1000, Coding with Tim, BOOK
- 4800, The Da Vintim Code, BOOK
- 1500, The Tiny World Around Us, BOOK
- 2500, This Factory Within Us, BOOK
- 1200, Religions Around the World with Tim, BOOK
- 1300, The 2008 Bubble by Tim, BOOK
- 1400, Easy Japanese with Tim, BOOK
- 1200, Tim's Vision of the World, BOOK
- 5800, The Da Vintim Code, DVD
- 6800, Dom & Gerry: The Great Adventure, DVD
- 1600, Tim's Bin Ideas, DVD

Check Availability

Borrowed Resources

Check Status

Messages

Availability

The Adventures of Tim
In Stock

User Rating: 0 (No Ratings Yet)
Your rating: 0 (You have not rated this item yet)

Borrow Length

☒ 2 Weeks ☐ 6 Months

Borrow

Request New Resource

Request

Status

Give your rating on this item

Bad ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 Good

Give Rating

£ 0.00

Return

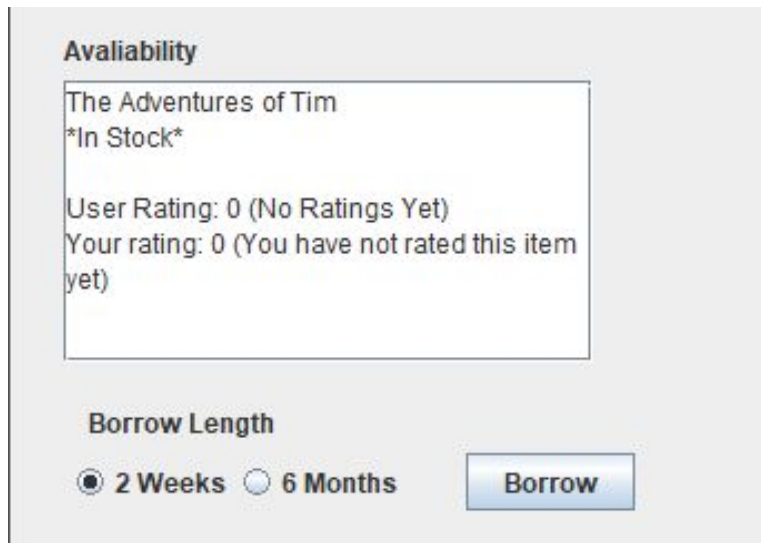
Ask for Extension

☒ 3 Days ☐ 7 Days ☐ 14 Days

Request Extension

Select a resource from the resource list and press "Check Availability", the information for that resource would be displayed in the box below.

3.2 Borrowing a Book



Availability

The Adventures of Tim
In Stock

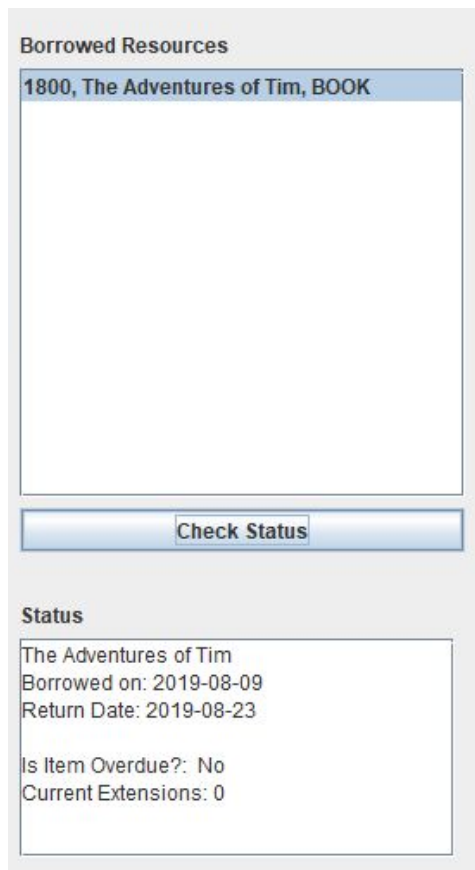
User Rating: 0 (No Ratings Yet)
Your rating: 0 (You have not rated this item yet)

Borrow Length

☒ 2 Weeks ☐ 6 Months

Check if the resource you want to borrow is displayed in the box, then choose a borrow length and press “Borrow”.

3.2 Checking Status of Borrowed Resource



Borrowed Resources

1800, The Adventures of Tim, BOOK

Status

The Adventures of Tim
Borrowed on: 2019-08-09
Return Date: 2019-08-23
Is Item Overdue?: No
Current Extensions: 0

Select a resource from the borrowed resource list and press “Check Status”, the information for that resource would be displayed in the box below.

3.3 Returning a Book

Status

The Adventures of Tim
Borrowed on: 2019-08-09
Return Date: 2019-08-23

Is Item Overdue?: No
Current Extensions: 0

Give your rating on this item

Bad

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Good

Give Rating

£ 0.00

Return

Check if the resource you want to return is displayed in the box, then press “Return”. If the resource is overdue, then you must enter the exact amount owed in the bottom field then hit “Return”.

3.4 Requesting Extension

Status

The Adventures of Tim
Borrowed on: 2019-08-09
Return Date: 2019-08-23

Is Item Overdue?: No
Current Extensions: 0

Give your rating on this item

Bad

Good

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Give Rating

£

Return

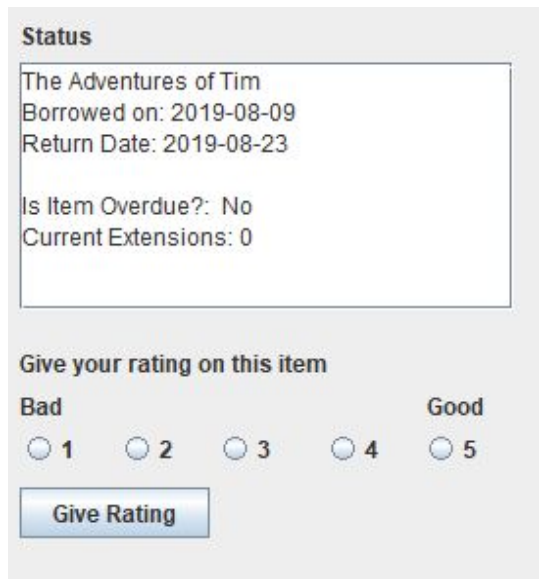
Ask for Extension

☒ 3 Days ☐ 7 Days ☐ 14 Days

Request Extension

Check if the resource you want an extension on is displayed in the box, then choose an extension length and press “Request Extension”.

3.5 Rating a Resource



Status

The Adventures of Tim
Borrowed on: 2019-08-09
Return Date: 2019-08-23

Is Item Overdue?: No
Current Extensions: 0

Give your rating on this item

Bad Good

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Give Rating

Check if the resource you want to give a rating to is displayed in the box, then choose a rating (1 to 5) and press “Give Rating”.

3.6 Requesting a New Resource



Request New Resource

Request

Type in the box information about the resource you would like to be added to the library and press “Request”, this will be sent to the admin.

3.7 Checking Messages

The screenshot displays a web application interface for a library system. At the top, a 'News' section shows a message from 2019-08-09 with the text 'No Text'. A 'Logout' button is in the top right. The main area is divided into three columns. The left column, 'Resource List', contains a scrollable list of 16 items, including books and DVDs, with a 'Check Availability' button below. The middle column, 'Borrowed Resources', shows one item, '1800, The Adventures of Tim, BOOK', with a 'Check Status' button below. The right column, 'Messages', displays a message titled 'Extension Approved' regarding a 3-day extension for 'The Adventures of Tim', dated 2019-08-09T23:35:51.097. Below the messages, there are sections for 'Avaliability' (with a 'Borrow' button), 'Status' (with a 'Give Rating' button and a 5-point scale), 'Request New Resource' (with a 'Request' button), and 'Ask for Extension' (with radio buttons for 3, 7, and 14 days, and a 'Request Extension' button). A 'Return' button is also present near the status section.

Your messages are displayed on the right. Here you can see if your extension request has been granted or not, see reminders and messages from the administrator.

4 Admin Window

4.1 Opening a Message

The screenshot displays the Admin Window interface. At the top, it says "Welcome Admin (Alan Jones)" and has a "Logout" button. Below this is a navigation bar with tabs: "Messages", "Send Reminders/Check Client", "Newsletter", "Add/Check Resource", and "Create User". The "Messages" tab is active. On the left, a list of messages is shown, with the first one selected: "C0:1800, Extension Request, 2019-08-09T22:56:08.980". Below this list is an "Open Message" button. To the right of the list, the details of the selected message are displayed. The "Message ID" is "C0:1800", the "Sender Name" is "John Smith", and the "Subject" is "Extension Request". The message body text is: "This user has requested an extension of 3 days for 'The Adventures of Tim'". To the right of the message details is the "Client Information" section, which includes "All Resources this Client is Borrowing". The resources listed are: "1800, 'The Adventures of Tim'", "Borrow Date: 2019-08-09", "Return Date: 2019-08-23", "Is Item Overdue?: No", and "Current Extensions: 0". Below the client information are "Accept" and "Decline" buttons. At the bottom right is a "Delete Message" button.

Welcome Admin (Alan Jones) [Logout](#)

Messages | [Send Reminders/Check Client](#) | [Newsletter](#) | [Add/Check Resource](#) | [Create User](#)

Message List:

- C0:1800, Extension Request, 2019-08-09T22:56:08.980
- C0:R19, Resource Request, 2019-08-09T22:56:59.504

[Open Message](#)

Message Details:

Message ID: C0:1800

Sender Name: John Smith

Subject: Extension Request

This user has requested an extension of 3 days for "The Adventures of Tim"

Client Information:

All Resources this Client is Borrowing

1800, "The Adventures of Tim"

Borrow Date: 2019-08-09
Return Date: 2019-08-23

Is Item Overdue?: No
Current Extensions: 0

[Accept](#) [Decline](#)

[Delete Message](#)

In the Message Tab, Select a message from the list on the left and press "Open Message"

4.2 Accepting/Declining an Extension

Message ID: C0:1800	Client Information
Sender Name: John Smith	All Resources this Client is Borrowing
Subject: Extension Request	1800, "The Adventures of Tim"
This user has requested an extension of 3 days for "The Adventures of Tim"	Borrow Date: 2019-08-09 Return Date: 2019-08-23
	Is Item Overdue?: No Current Extensions: 0 ****
<input type="button" value="Accept"/> <input type="button" value="Decline"/>	
<input type="button" value="Delete Message"/>	

After coming to a conclusion about how to deal with the request, press either “Accept” to grant the extension or “Decline” to refuse the extension. After you press one of these buttons, the request will automatically be deleted.

4.3 Dealing with a Resource Request

Message ID: C0:R19	Client Information
Sender Name: John Smith	All Resources this Client is Borrowing
Subject: Resource Request	1800, "The Adventures of Tim"
Can you added "Tim's Greatest Travels" please, thank you.	Borrow Date: 2019-08-09 Return Date: 2019-08-23
	Is Item Overdue?: No Current Extensions: 0

	<input type="button" value="Accept"/> <input type="button" value="Decline"/>
	<input type="button" value="Delete Message"/>

After reading the message, you can either leave it or delete it by pressing the "Delete Message" button.

4.4 Viewing Information About a Client

The screenshot displays a web-based library management system interface. At the top, a welcome message reads "Welcome Admin (Alan Jones)" next to a "Logout" button. Below this is a navigation bar with tabs: "Messages", "Send Reminders/Check Client", "Newsletter", "Add/Check Resource", and "Create User". The "Send Reminders/Check Client" tab is active.

On the left, a list of clients is shown, with "C0, John, Smith" selected. Below the list is a "View Client" button. The main area displays details for the selected client:

- ID:** C0
- Name:** John Smith
- Resources borrowed:** 1800, "The Adventures of Tim"
- Borrow Date:** 2019-08-09
- Return Date:** 2019-08-23
- Is Item Overdue?:** No
- Current Extensions:** 0

Below the client details is a "*****" separator. On the right, there is a "Resources borrowed" section showing "1800, The Adventures of Tim, BOOK". Below this is a "Select Item" button and a "Selected Item:" field. Further down, there is a "Send Reminder for Overdue Books" section with three radio button options: "Once", "Every three days", and "Every 7 days". To the right of these options are "Send/Set" and "Cancel Reminder" buttons. At the bottom right, there is a "Send Message to Client" section with a "Subject:" label and a text input field, followed by a "Send" button.

Select a Client from the list on the left and press "View Client". Information about what they are borrowing will be displayed.

4.5 Sending Reminders to Clients

The screenshot shows a web interface for managing borrowed resources. On the left, a client's details are displayed: ID: C0, Name: John Smith. Below this, a list of borrowed items is shown, with '1800, "The Adventures of Tim"' selected. The item details include Borrow Date: 2019-08-09, Return Date: 2019-08-23, Is Item Overdue?: No, and Current Extensions: 0. On the right, the 'Resources borrowed' section lists the same item. A 'Select Item' button is present. Below this, the 'Selected Item' is confirmed as '1800, The Adventures of Tim, BOOK'. The 'Send Reminder for Overdue Books' section has three radio button options: 'Once', 'Every three days', and 'Every 7 days'. There are 'Send/Set' and 'Cancel Reminder' buttons. The 'Send Message to Client' section has a 'Subject:' label and a text input field. A 'Send' button is at the bottom right.


After deciding which resource you would like to send a reminder for, select it from the list on the right and press “Select Item” to select it. Then choose to either to send a one off reminder “Once” or have it automatically remind the client every three days by selecting “Every three days” or every seven day by selecting “Every 7 days”. After you have chosen this, you can press “Send/Set” to send it.

4.5 Canceling a Reminder

This screenshot shows a close-up of the 'Send Reminder for Overdue Books' section. It features three radio button options: 'Once', 'Every three days', and 'Every 7 days'. To the right of these options are two buttons: 'Send/Set' and 'Cancel Reminder'.

To cancel, check you have the right resource selected then press “Cancel Reminder”, this will stop any future reminders.

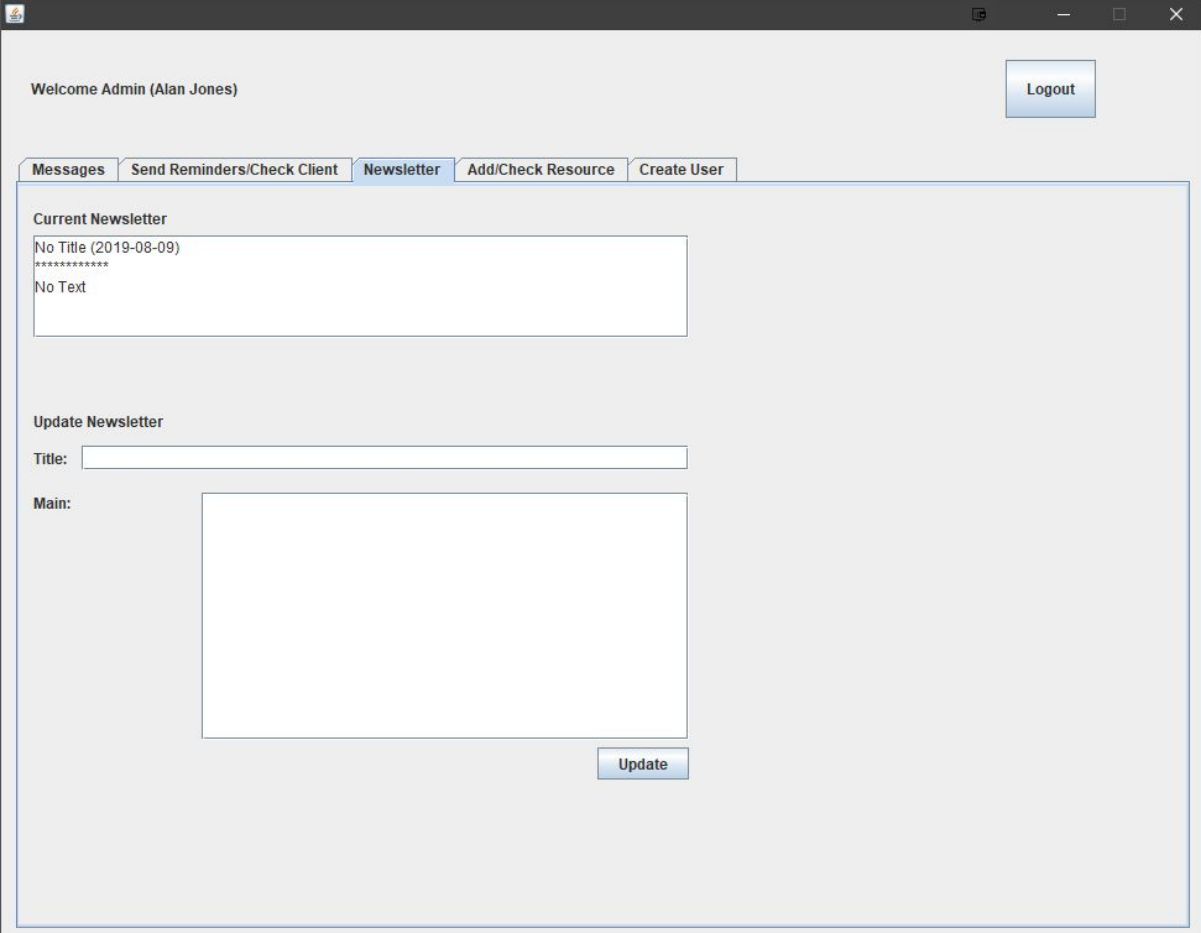
4.6 Sending a Message to Client



The screenshot shows a web form titled "Send Message to Client". It has a "Subject:" label followed by a text input field. Below the subject field is a larger text area for the message. At the bottom right of the form is a "Send" button.

Check you have the right client selected, then write your subject in "Subject" and your message underneath that and press "Send"

4.7 Updating the Newsletter



The screenshot shows an admin interface with a top bar containing "Welcome Admin (Alan Jones)" and a "Logout" button. Below the top bar is a navigation menu with tabs: "Messages", "Send Reminders/Check Client", "Newsletter" (which is selected), "Add/Check Resource", and "Create User". The main content area is titled "Current Newsletter" and displays "No Title (2019-08-09)" followed by "*****" and "No Text". Below this is the "Update Newsletter" section, which includes a "Title:" label with a text input field, a "Main:" label with a larger text area, and an "Update" button at the bottom right.

You can check the previous newsletter on the page as well. To update it, add a title then type the content underneath it. Once ready, press "Update". This will be sent to all clients.

4.8 Checking a Resource

Welcome Admin (Alan Jones) [Logout](#)

Messages [Send Reminders/Check Client](#) [Newsletter](#) **[Add/Check Resource](#)** [Create User](#)

Here you can view and add resources to the library

1800, The Adventures of Tim, BOOK
 2800, The Misadventures of Tim, BOOK
 3800, The Tim of the World, BOOK
 1000, Coding with Tim, BOOK
 4800, The Da Vintim Code, BOOK
 1500, The Tiny World Around Us, BOOK
 2500, This Factory Within Us, BOOK
 1200, Religions Around the World with Tim, BOOK
 1300, The 2008 Bubble by Tim, BOOK
 1400, Easy Japanese with Tim, BOOK
 1200, Tim's Vision of the World, BOOK
 5800, The Da Vintim Code, DVD
 6800, Dom & Gerry: The Great Adventure, DVD
 1600, Tim's Big Ideas, DVD
 1900, The Daily Telegraph (04-02-2012), NEWSPAPER
 2900, The Daily Telegraph (011-02-2012), NEWSPAPER
 3900, The Daily Telegraph (18-02-2012), NEWSPAPER
 1700, Cooking With Tim: Issue 24 (23-03-2019), MAGAZINE
 2700, Cars of the World: Issue 5 (09-04-2018), MAGAZINE
 3700, Drawing With Tim: Issue 14 (17-09-2019), MAGAZINE

[View Resource](#)

Add New Resource

Resource ID: 1800

Resource Name: The Adventures of Tim

Resource Type: BOOK

Borrow Information

Not in Stock

Who is borrowing this resource: C0

Borrow Date: 2019-08-09
 Return Date: 2019-08-23

Is Item Overdue?: No
 Current Extensions: 0

User Rating: 0 (No Ratings Yet)

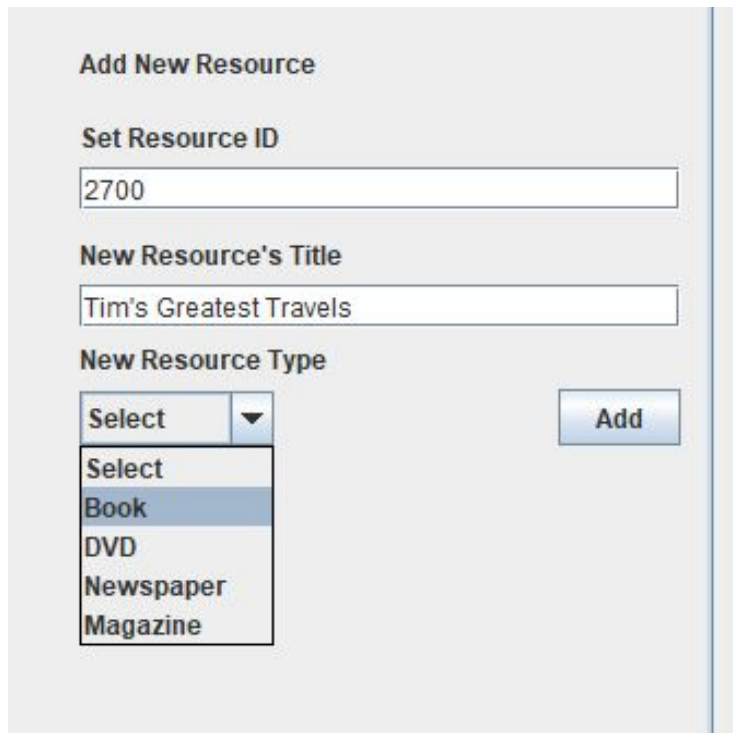
Set Resource ID:

New Resource's Title:

New Resource Type:

In the Add/Check tab, selected a resource from the list on the left and press “View Resource”. Information of the resource will be displayed.

4.9 Adding a New Resource



Add New Resource

Set Resource ID

2700

New Resource's Title

Tim's Greatest Travels

New Resource Type

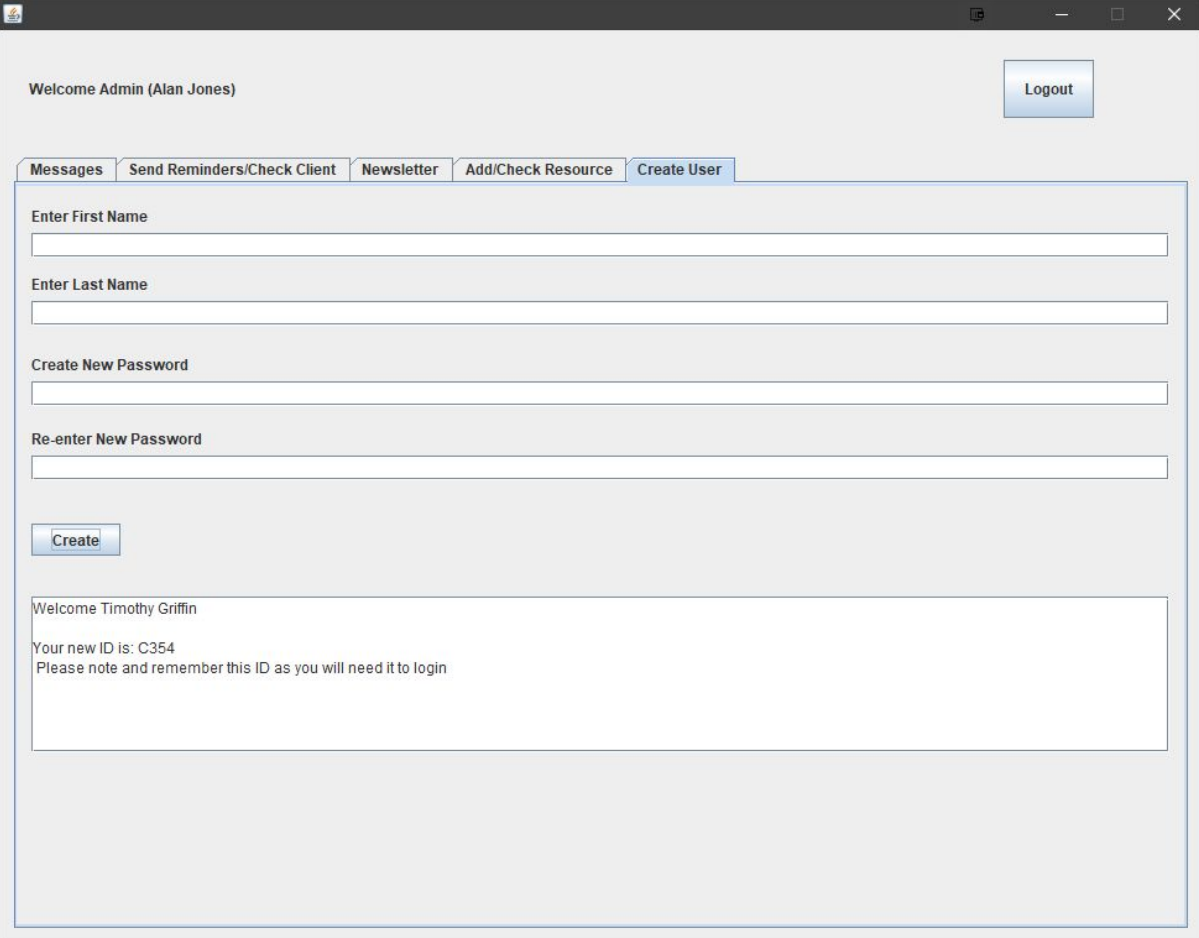
Select ▼

- Select
- Book
- DVD
- Newspaper
- Magazine

Add

To add a resource, type in a new ID for the resource at its title. Select the type of resource it is then press “Add”. It will be added to the library.

4.10 Creating a New User



The screenshot shows a web application interface for creating a new user. At the top, a welcome message reads "Welcome Admin (Alan Jones)" next to a "Logout" button. Below this is a horizontal menu with five tabs: "Messages", "Send Reminders/Check Client", "Newsletter", "Add/Check Resource", and "Create User". The "Create User" tab is selected and highlighted. The form contains four input fields: "Enter First Name", "Enter Last Name", "Create New Password", and "Re-enter New Password". A "Create" button is positioned below the password fields. At the bottom of the form, a confirmation message is displayed: "Welcome Timothy Griffin", "Your new ID is: C354", and "Please note and remember this ID as you will need it to login".

Under the "Create User" tab, Enter the details of the new user (have the new user type in their new password) and press "Create". Underneath it will confirm that a new user has been created and display the new ID for them. **IMPORTANT:** Please remember to tell the new user to remember this ID as they will need it to login.