

Group Project
MIS 6326.001 – Data Management

A report submitted

by

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Presented to

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QUICK START GUIDE

(User Guide manual)

What is the Library System application?

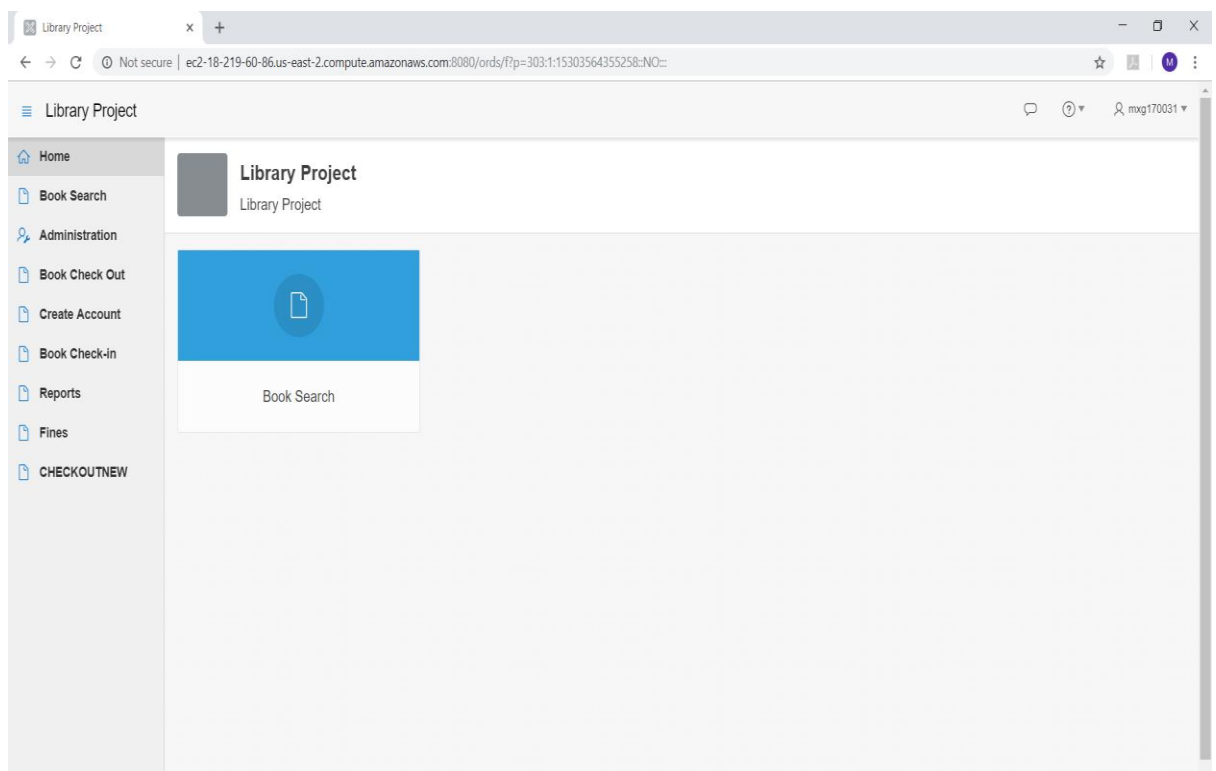
The library system application is a comprehensive, interactive and efficient library record management application. It is designed on Oracle APEX and allows the librarian to enter or modify the database with great ease and secure access.

Skills/tools needed to operate the application:

1. Basic written and verbal communication
2. Good Internet connection

Step 1: Getting started

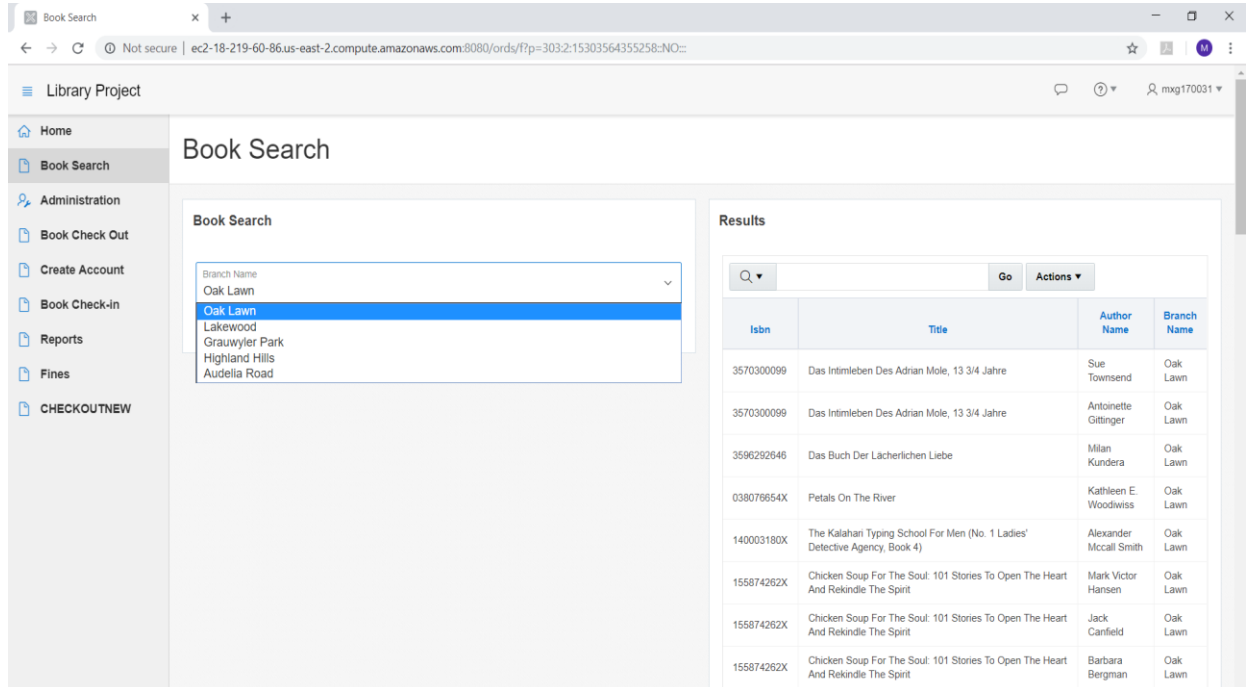
- a. Run the application.
- b. Enter Username and password
- c. You will reach the homepage which looks like the screenshot below:



- d. Pick the action you want to perform from the options in the homepage.

STEP 2: BOOK SEARCH

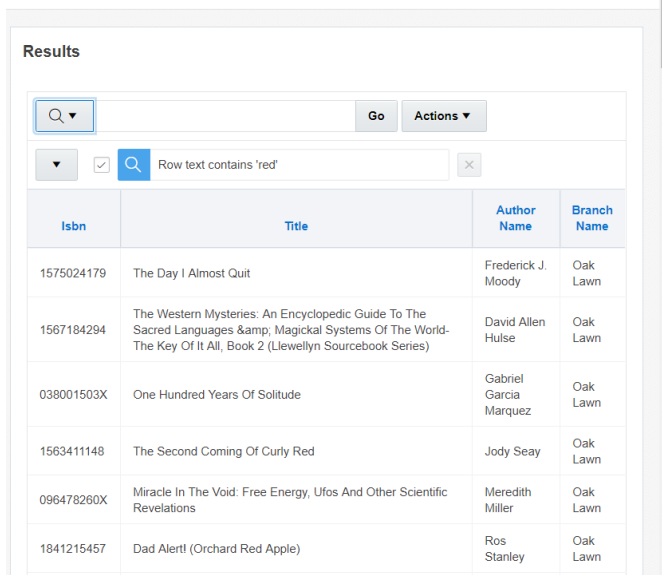
- a. Decide a library branch name to look for the books available in that location.



The screenshot shows the 'Book Search' interface. On the left is a sidebar with navigation links: Home, Book Search (selected), Administration, Book Check Out, Create Account, Book Check-in, Reports, Fines, and CHECKOUTNEW. The main area is titled 'Book Search'. It features a 'Branch Name' dropdown menu with the following options: Oak Lawn (selected), Lakewood, Grauwylar Park, Highland Hills, and Audella Road. To the right, the 'Results' section displays a table of books.

Isbn	Title	Author Name	Branch Name
3570300099	Das Intimleben Des Adrian Mole, 13 3/4 Jahre	Sue Townsend	Oak Lawn
3570300099	Das Intimleben Des Adrian Mole, 13 3/4 Jahre	Antoinette Gittinger	Oak Lawn
3596292646	Das Buch Der Lächerlichen Liebe	Milan Kundera	Oak Lawn
038076654X	Petals On The River	Kathleen E. Woodiwiss	Oak Lawn
140003180X	The Kalahari Typing School For Men (No. 1 Ladies' Detective Agency, Book 4)	Alexander McCall Smith	Oak Lawn
155874262X	Chicken Soup For The Soul: 101 Stories To Open The Heart And Rekindle The Spirit	Mark Victor Hansen	Oak Lawn
155874262X	Chicken Soup For The Soul: 101 Stories To Open The Heart And Rekindle The Spirit	Jack Canfield	Oak Lawn
155874262X	Chicken Soup For The Soul: 101 Stories To Open The Heart And Rekindle The Spirit	Barbara Bergman	Oak Lawn

- b. Search the book with substrings in the name of books or authors. Example: 'red'



The screenshot shows the 'Results' section with a search filter applied: 'Row text contains red'. The results table is as follows:

Isbn	Title	Author Name	Branch Name
1575024179	The Day I Almost Quit	Frederick J. Moody	Oak Lawn
1567184294	The Western Mysteries: An Encyclopedic Guide To The Sacred Languages & Magickal Systems Of The World- The Key Of It All, Book 2 (Llewellyn Sourcebook Series)	David Allen Hulse	Oak Lawn
038001503X	One Hundred Years Of Solitude	Gabriel Garcia Marquez	Oak Lawn
1563411148	The Second Coming Of Curly Red	Jody Seay	Oak Lawn
096478260X	Miracle In The Void: Free Energy, Ufos And Other Scientific Revelations	Meredith Miller	Oak Lawn
1841215457	Dad Alert! (Orchard Red Apple)	Ros Stanley	Oak Lawn

STEP 3: BOOK CHECK OUT

- Enter the details of the book being checked out. The needed information is library branch, check out date, borrower's unique card no., and the book ID. Note that the due date will be calculated by the system and should not be entered by the user. The new record will be added to the database.
- An error message will be displayed if there is an unpaid fine or if the borrower has already borrowed three books.

The screenshot shows a web browser window with the 'Book Check Out' form. The browser's address bar shows a URL from 'ec2-18-219-60-86.us-east-2.compute.amazonaws.com'. The application's sidebar on the left lists various options: Home, Book Search, Administration, Book Check Out (highlighted), Create Account, Book Check-in, Reports, Fines, and CHECKOUTNEW. The main content area is titled 'Book Check Out Form' and contains several input fields: 'Branch' (with 'Oak Lawn' selected), 'Date Out' (with '28-NOV-2018'), 'Card No' (with 'ID000001'), 'Due Date' (with '12-DEC-2018'), and 'Book' (with '0671873202'). A 'Check Out' button is located at the bottom right of the form.

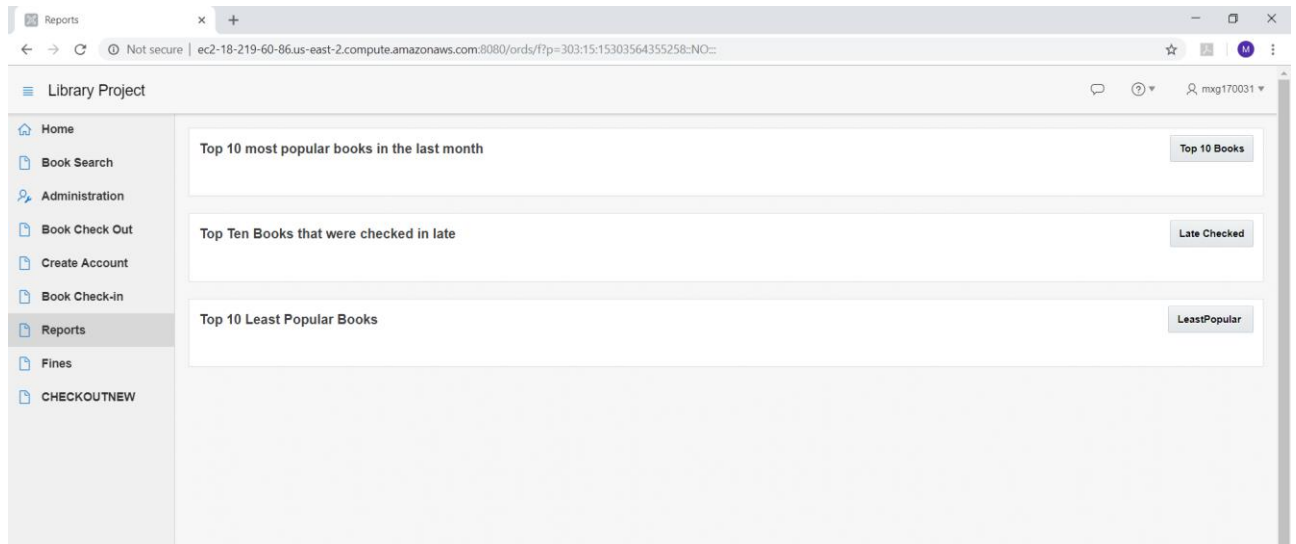
STEP 4: CREATE NEW BORROWER ACCOUNT

- Click on Create Account option and fill in the required details. A new ID will be created and allotted to the borrower.
- If the SSN already exists in the database, then an error message will be displayed.

The screenshot shows a web browser window with the 'Create new borrower account' form. The browser's address bar shows the same URL as the previous screenshot. The application's sidebar on the left lists various options: Home, Book Search, Administration, Book Check Out, Create Account (highlighted), Book Check-in, Reports, Fines, and CHECKOUTNEW. The main content area is titled 'Create new borrower account' and contains several input fields: 'First Name', 'Last Name', 'Email ID', 'SSN', 'Address', 'City', 'State', and 'Phone'. A 'Submit' button is located at the bottom right of the form.

STEP 5: REPORTS

- a. The reports allow the user to see the statistics available as shown in the screenshot.



Ex. Least popular books:

The screenshot shows the 'Top 10 least popular books' report. The table lists the following books:

Book Id	Title	Author	Date Out	Date In
3453196643	Inseln Im Netz	Bruce Sterling	07-DEC-2017	31-JAN-2018
1586481614	Gracefully Insane: Life And Death Inside America's Premier Mental Hospital	Alex Beam	07-DEC-2017	08-JAN-2018
3548245897	Hin Und Weg.	Ethan Hawke, Kristian Lütze	07-DEC-2017	08-DEC-2017
1400060648	The Bone Woman: A Forensic Anthropologist's Search For Truth In The Mass Graves Of Rwanda, Bosnia, Croatia, And Kosovo	Clea Koff	08-DEC-2017	22-DEC-2017
189251415X	The Bearded Lady	Sharlee Dieguez	08-DEC-2017	20-DEC-2017
202005924X	Patience Dans L'azur	Reeves Hubert	08-DEC-2017	29-JAN-2018
067972768X	The Joy Luck Club: A Novel	Amy Tan	09-DEC-2017	07-JAN-2018
3442445078	Zeitbeben	Kurt Vonnegut	09-DEC-2017	24-DEC-2017
006050675X	The Emerald Cavern (Fifth Ring)	Mitchell Graham	09-DEC-2017	18-JAN-2018
078943413X	Illustrated Dictionary Of Mythology	Philip Wilkinson	09-DEC-2017	27-DEC-2017

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STEP 6: FINES INFORMATION

- Click on the 'Fines Information' option on the left hand side of the screen.
- Enter the Card No. of the borrower. This gives us the details of all the books borrowed by the borrower and their dues.

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Check your fines

New ID000111

Submit

Q Go Actions

Card No	Paid	Book Id	Fine Amt
ID000111	Paid	0671873202	5.75
ID000111	Paid	0446530522	8.75
ID000111	Paid	0399151079	9
ID000111	Paid	0385313152	6
ID000111	Paid	0671550284	2.25
ID000111	Paid	0060688246	6.25
ID000111	Paid	0440441099	9.5
ID000111	Paid	0425157539	5.5

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- You can also check which borrower has overdue books using the 'overdue books' option:

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Overdue Books

New1 ID000003

Submit

Q Go Actions

Card No	Book Id	Due Date	Date In
ID000003	0449003302	14-NOV-2018	-
ID000003	0449003302	14-NOV-2018	-

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- d. Finally we can use the ‘payment of fees’ option to check the status of fees.

Loan Id	Card No	Fine Amt	Paid
2338	ID000348	10	Unpaid
2339	ID000348	6.5	Paid
2340	ID000347	10	Unpaid
2341	ID000347	4.25	Paid
2343	ID000347	8.75	Paid
2346	ID000348	4.75	Paid
2347	ID000348	6.5	Paid
2348	ID000348	9.5	Paid
2349	ID000348	4.5	Paid
2350	ID000348	3.5	Paid
2351	ID000349	11	Unpaid
2352	ID000349	5.5	Paid

STEP 7 : BOOKS CHECK IN

- a. Using the ‘Book check in option’ of the left hand side, we can enter details of a book being checked in, see their fines details and at the same time update their checkin date in the database.

Book Id	Card No	Date Out	Due Date	Date In	Loan Id
0671873202	ID000111	13-FEB-2018	27-FEB-2018	22-MAR-2018	1295
0877931267	ID000111	16-JUL-2018	30-JUL-2018	17-JUL-2018	1296
0446530522	ID000111	09-MAY-2018	23-MAY-2018	27-JUN-2018	1297
0399151079	ID000111	15-JUN-2018	29-JUN-2018	04-AUG-2018	1298
1567315658	ID000112	02-FEB-2018	16-FEB-2018	08-FEB-2018	1299
0060256257	ID000112	20-JAN-2018	03-FEB-2018	08-FEB-2018	1300
0451519167	ID000112	26-SEP-2018	10-OCT-2018	05-NOV-2018	1301
0140274782	ID000112	23-MAY-2018	06-JUN-2018	27-MAY-2018	1302
0451516060	ID000112	19-MAY-2018	02-JUN-2018	04-JUN-2018	1303

