

Node JS Responsive application - Online Library Management System

Redesigned and Implemented by – V. Vinoth Adaikalaraj

Technology Stack

HTML5 , CSS & Bootstrap4.

AWS Cloud EC2 Services with Virtual Server.

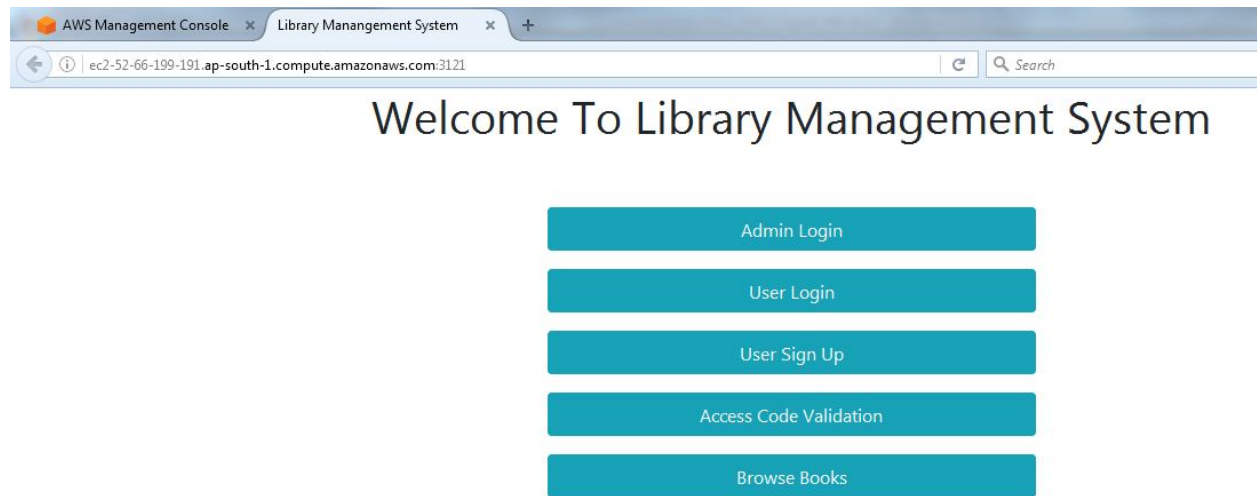
AWS Cognito Service (Authentication)

MongoDB server version: 3.6.3

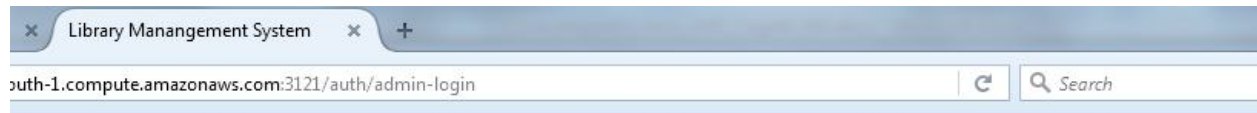
***** Compatible with both Desktop and Mobile**

Home page

<http://ec2-52-66-199-191.ap-south-1.compute.amazonaws.com:3121/>



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Admin Login

Username

ladmin

Password

••••••••

Login!

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User Pools - Amazon Cogn...Library Manangement System

https://ap-south-1.console.aws.amazon.com/cognito/users/?region=ap-south-1#/pool/ap-south-1_E0VW7bKmN/users?_k=qwfrfyz

Search

aws

ServicesResource Groups

vinHomeMumbaiSupport

User Pools | Federated Identities

vinHomeUP

General settings

Users and groups

Attributes

Policies

MFA and verifications

Advanced security

Message customizations

Tags

Devices

App clients

Triggers

Analytics

App integration

App client settings

Domain name

UsersGroups

Import users

Create user

User name

Search for value...

Username	Enabled	Account status	Email verified	Phone number verified	Updated	Created
kumar	Enabled	CONFIRMED	true	false	Aug 3, 2020 10:17:05 AM	Aug 3, 2020 10:15:53 AM
ladmin	Enabled	CONFIRMED	false	false	Aug 3, 2020 1:57:09 PM	Aug 3, 2020 1:43:05 PM
raj84	Enabled	CONFIRMED	true	false	Aug 3, 2020 6:27:58 PM	Aug 3, 2020 6:20:33 PM

User Pools - Amazon Cogn... x Library Management System x +

ec2-52-66-199-191.ap-south-1.compute.amazonaws.com:3121/admin

Home Book Inventory Users Add Books Browse Books Welcome admin

Dashboard

Find activities by username, category Search

Hello, admin Welcome to Admin Dashboard

Recent User Activities

Info	Category	Date Posted
raj84 issued Java complete Reference	Issue	Mon Aug 03 2020
raj84 issued Python Complete Reference	Issue	Mon Aug 03 2020
kumar issued Let's C	Issue	Mon Aug 03 2020
kumar issued Java complete Reference	Issue	Mon Aug 03 2020

First 1 Last

Books

4

View

Users

2

Users

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Update Book Inventory:

Home Book Inventory Users Add Books Browse Books Welcome admin

Book Inventory

Select Option... Search Books Search

Title	Author	ISBN	Category	In Stock	Edit
Let's C	Kanitkar	5634-6356-8594-1257	Computer Science	14	Update Delete
Java complete Reference	Herbert Schildt	9339-2120-96	Computer Science	13	Update Delete
DARKNESS AT NOON	Arthur Koestler	9780-0256-52101	Novels	20	Update Delete
Python Complete Reference	Martin C Brown	938-9387572942	Computer Science	20	Update Delete

First 1 Last

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p-south-1.compute.amazonaws.com:3121/admin/book/update/5f2834be4ac0d041d1e89eb4 Search

Home Book Inventory Users Add Books Browse Books

Edit Author

Kanitkar

Edit Category

Computer Science

ISBN

5634-6356-8594-1257

Stock

16

Edit Description

For C language programmers, it is must to master the complexity of the language to deal with programming software in engineering, gaming and other fields. In order to understand each concept of the C language, it is necessary to follow a good reference book in easy-to-understand text.

Keeping lucidity and simplicity in mind, Yashavant P Kanetkar, the author of the book, has compiled it to be one of the most interesting C programming books for C language learners. The book begins with the basic knowledge of different concepts and further leads to advanced levels. This means the book will provide complete knowledge to the readers from basic to complex programming parts.

Update!

Home Book Inventory Users Add Books Browse Books Welcome Iadmin

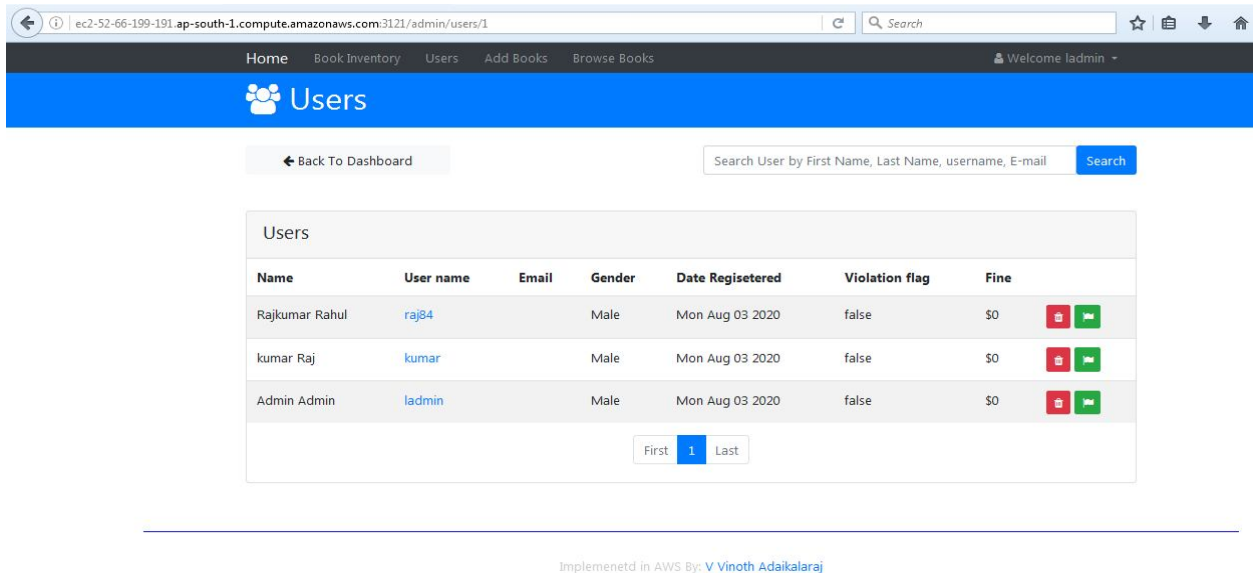
Book Inventory

Select Option... Search

Title	Author	ISBN	Category	In Stock	Edit
Let's C	Kanitkar	5634-6356-8594-1257	Computer Science	16	Update Delete
Java complete Reference	Herbert Schildt	9339-2120-96	Computer Science	13	Update Delete
DARKNESS AT NOON	Arthur Koestler	9780-0256-52101	Novels	20	Update Delete
Python Complete Reference	Martin C Brown	938-9387572942	Computer Science	20	Update Delete

First 1 Last

Delete or Warn the Users on due date Violations.



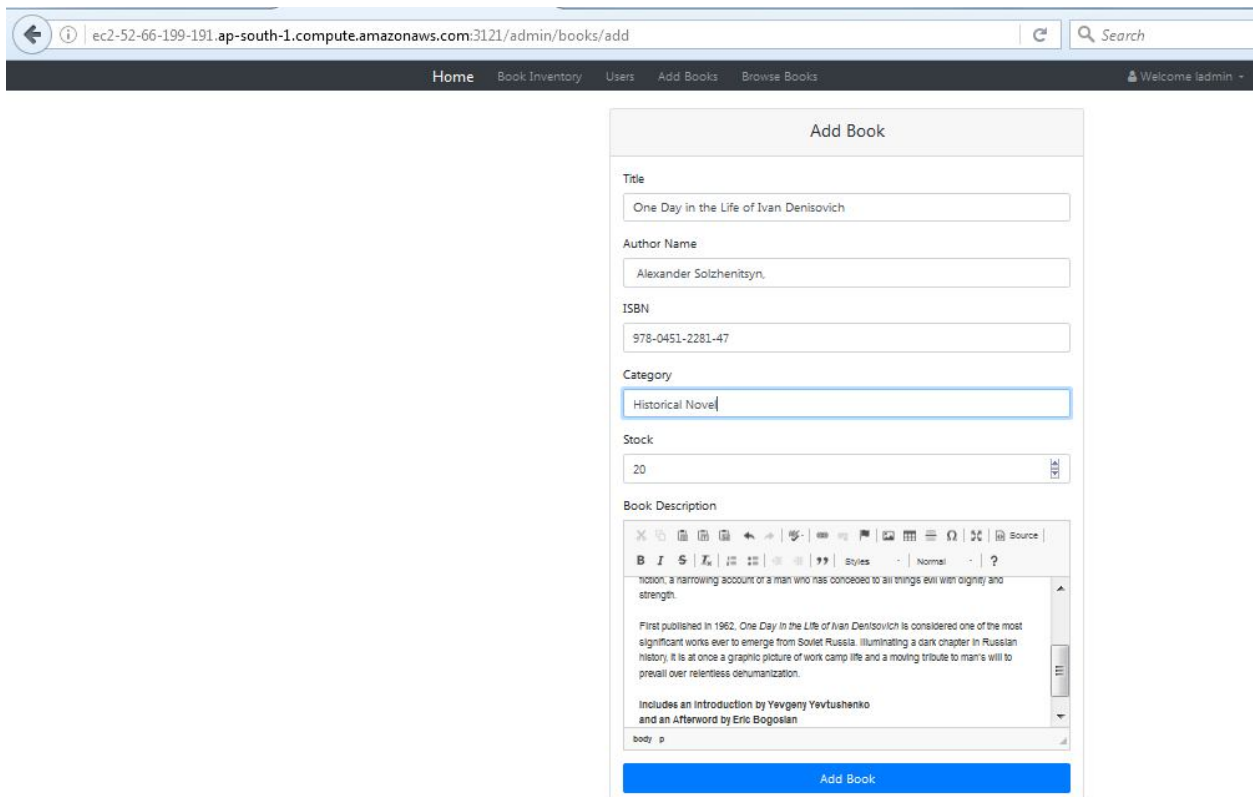
The screenshot shows a web application interface for managing users. The browser address bar displays the URL: `ec2-52-66-199-191.ap-south-1.compute.amazonaws.com:3121/admin/users/1`. The navigation bar includes links for Home, Book Inventory, Users, Add Books, and Browse Books, along with a user greeting "Welcome ladmin". The main heading is "Users". Below the heading, there is a "Back To Dashboard" button and a search bar with the placeholder text "Search User by First Name, Last Name, username, E-mail" and a "Search" button. The search results are displayed in a table with the following columns: Name, User name, Email, Gender, Date Registered, Violation flag, and Fine. The table contains three rows of user data. At the bottom of the table, there are pagination controls showing "First", "1", and "Last".

Name	User name	Email	Gender	Date Registered	Violation flag	Fine
Rajkumar Rahul	raj84		Male	Mon Aug 03 2020	false	\$0
kumar Raj	kumar		Male	Mon Aug 03 2020	false	\$0
Admin Admin	ladmin		Male	Mon Aug 03 2020	false	\$0

First 1 Last

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Add Books:



The screenshot shows the "Add Book" form in a web application. The browser address bar displays the URL: `ec2-52-66-199-191.ap-south-1.compute.amazonaws.com:3121/admin/books/add`. The navigation bar is the same as the previous screenshot. The form has the following fields: Title (One Day in the Life of Ivan Denisovich), Author Name (Alexander Solzhenitsyn), ISBN (978-0451-2281-47), Category (Historical Novel), Stock (20), and Book Description (A prison, a harrowing account of a man who has conceded to all things evil with dignity and strength. First published in 1962, One Day in the Life of Ivan Denisovich is considered one of the most significant works ever to emerge from Soviet Russia. Illuminating a dark chapter in Russian history, it is at once a graphic picture of work camp life and a moving tribute to man's will to prevail over relentless dehumanization. Includes an introduction by Yevgeny Yevtushenko and an Afterword by Eric Bogosian). The form also includes a rich text editor toolbar and a "Add Book" button at the bottom.

Add Book

Title

One Day in the Life of Ivan Denisovich

Author Name

Alexander Solzhenitsyn.

ISBN

978-0451-2281-47

Category

Historical Novel

Stock

20

Book Description

A prison, a harrowing account of a man who has conceded to all things evil with dignity and strength.

First published in 1962, One Day in the Life of Ivan Denisovich is considered one of the most significant works ever to emerge from Soviet Russia. Illuminating a dark chapter in Russian history, it is at once a graphic picture of work camp life and a moving tribute to man's will to prevail over relentless dehumanization.

Includes an introduction by Yevgeny Yevtushenko and an Afterword by Eric Bogosian

body p

Add Book

User Signup Page

ec2-52-66-199-191.ap-south-1.compute.amazonaws.com:3121/auth/user-signup

Search

User Sign Up

First Name

firstName

Last Name

lastName

Pick a username

Username

Email

Email

Password

Password

Email

Ph: +xxxxxxxxxxxx

Gender

Male

Address

Address

Submit

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Note: Provide the Valid Email address to get the access code generated from Cognito, and then you can confirm by using Access Code Verification Button in the Landing page.

User Sign-in Page

ec2-52-66-199-191.ap-south-1.compute.amazonaws.com:3121/auth/user-login

User Login

Username

raj84

Password

••••••••

Login!

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Home Browse Books

Welcome raj84 2

Dashboard

Hello, raj84 Welcome to User Dashboard

+ Issue Book

Renew/Return Book

Pay fines

Name :

Email :

Due : \$0

Flagged : false

Recent Activities

Info	Category	Date
You have issued Java complete Reference	Issue	Issue : Mon Aug 03 2020 Return : Mon Aug 10 2020
You have issued Python Complete Reference	Issue	Issue : Mon Aug 03 2020 Return : Mon Aug 10 2020

First 1 Last

Issue Books:

ec2-52-66-199-191.ap-south-1.compute.amazonaws.com:3121/books/all/all/1

Home Browse Books Welcome raj84

Select Filter... Search Books Search

Let's C
Author : Kanitkar
Category : Computer Science
In stock : 16
[Issue](#) [Details](#)

Java complete Reference
Author : Herbert Schildt
Category : Computer Science
In stock : 13
[Issued!](#) [Return/Renew](#)
[Details](#)

DARKNESS AT NOON
Author : Arthur Koestler
Category : Novels
In stock : 19
[Issued!](#) [Return/Renew](#)
[Details](#)

Python Complete Reference
Author : Martin C Brown
Category : Computer Science
In stock : 20
[Issued!](#) [Return/Renew](#)
[Details](#)

One Day in the Life of Ivan Denisovich
Author : Alexander Solzhenitsyn,
Category : Historical Novel
In stock : 20
[Issue](#) [Details](#)

ec2-52-66-199-191.ap-south-1.compute.amazonaws.com:3121/books/return-renew

Home Browse Books Welcome raj84

[↶](#) Renew/Return

All Renewables/Returnables					
Title	Author	Issue date	Return date	Category	
You have issued Java complete Reference	Herbert Schildt	Mon Aug 03 2020	Mon Aug 10 2020	Computer Science	Renew Return
You have issued Python Complete Reference	Martin C Brown	Mon Aug 03 2020	Mon Aug 10 2020	Computer Science	Renew Return
You have issued DARKNESS AT NOON	Arthur Koestler	Mon Aug 03 2020	Mon Aug 10 2020	Novels	Renew Return

Mongo DB Store

The screenshot shows the adminMongo web interface. On the left is a sidebar with 'Database Objects' and 'Connections'. Under 'Database Objects', 'Ubuntu18_Mongo_LMS' is selected, and under it, 'LMS' is expanded. The 'books' collection is highlighted. The main area shows the 'books' collection with 5 records. The interface includes buttons for 'New document', 'Indexes', 'Search', 'Query', and 'Reset'. A 'Docs per page' dropdown is set to 5. The 'Total records: 5' is displayed. Each record has 'Delete', 'Link', and 'Edit' buttons. The records are as follows:

Record ID	title	author
5f2834be4ac0d041d1e89eb4	Let's C	Kanitkar
5f28370e4ac0d041d1e89eb5	Java complete Reference	Herbert Schildt
5f2851bb27d5b04aecf85637	DARKNESS AT NOON	Arthur Koestler

```
ubuntu@ip-172-31-39-81:~$ mongo
MongoDB shell version v3.6.3
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.6.3
> use LMS
```

```
> db.auth('','')
1
> show collections
LMS_Sessions
activities
books
issues
users
>
```