P jogender

192421316

EXPERIMENT 5

5.Create a simple cloud software application for Library book reservation system for SIMATS library using any Cloud Service Provider to demonstrate SaaS.

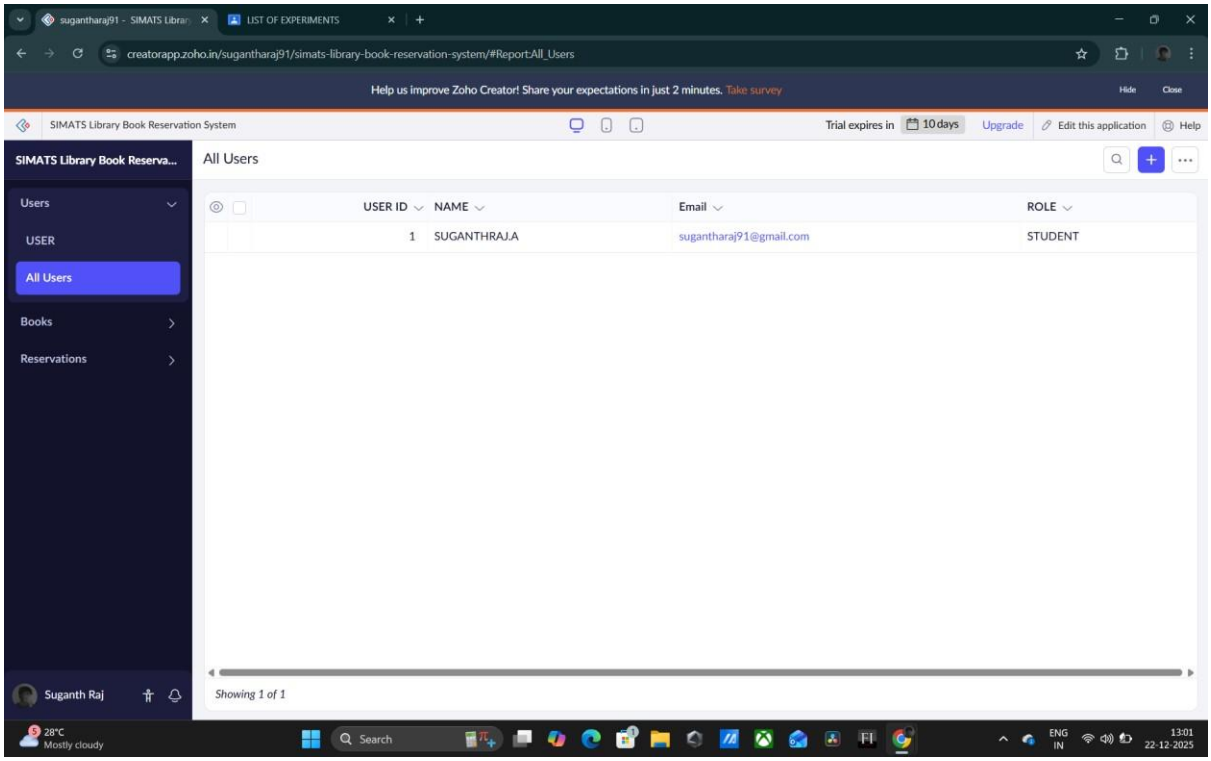
AIM

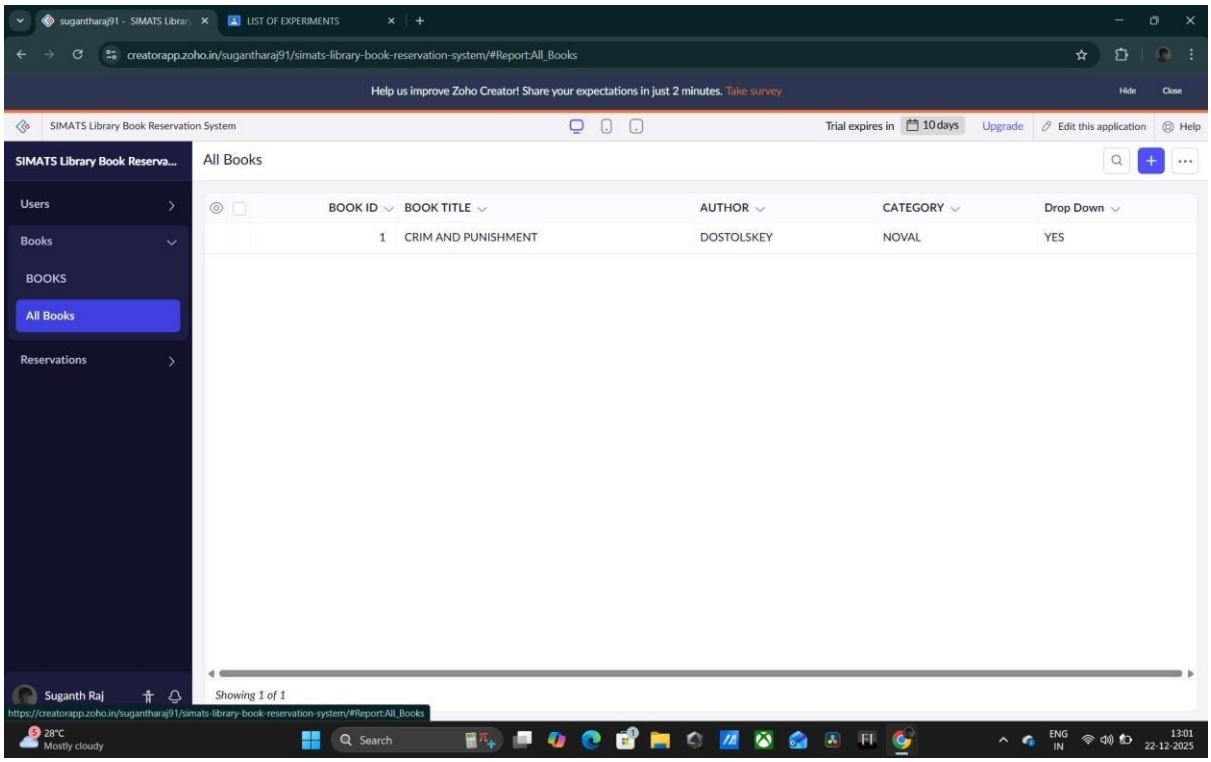
To design and develop a simple cloud-based Library Book Reservation System for SIMATS Library using Zoho Creator, demonstrating the concept of Software as a Service (SaaS), where multiple users can access, reserve, and manage library books through a web-based application hosted on the cloud.

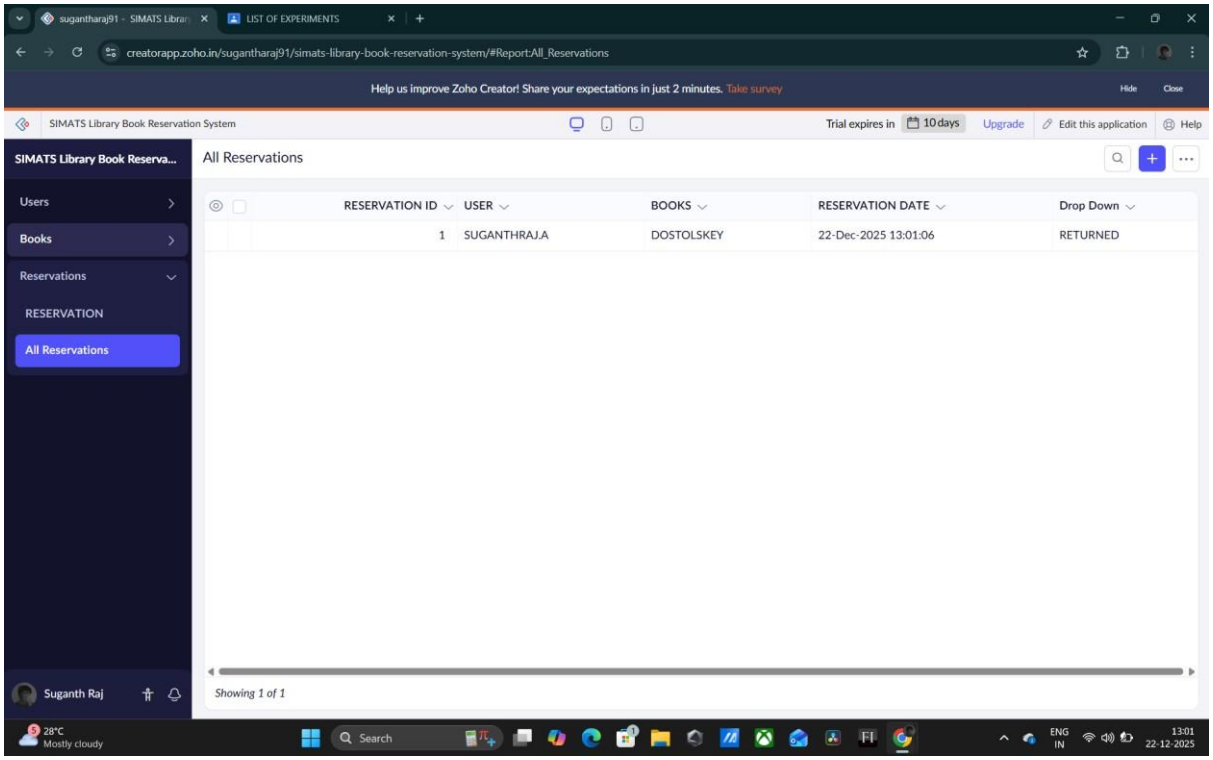
PROCEDURE

1. Login to **Zoho Creator** using a valid Zoho account.
2. Click on **Create Application** and select **Blank Application**.
3. Name the application as **SIMATS Library Book Reservation System**.
4. Create the first form **Users** and add fields: User_ID, Name, Email, and Role.
5. Create the second form **Books** and add fields: Book_ID, Book_Title, Author, Category, and Availability (default value set to Yes).
6. Create the third form **Reservations** and add fields: Reservation_ID, User (Lookup to Users), Book (Lookup to Books), Reservation_Date, and Status.
7. Define relationships using **Lookup fields** between Users–Reservations and Books–Reservations.
8. Add **Deluge script** in the Reservations form to check book availability before reservation and update status accordingly.
9. Create required **reports** for viewing users, books, and reservations.
10. Set **user roles and permissions** for Students, Faculty, and Librarian.
11. Test the application by reserving and returning books.
12. Publish the application and share the cloud URL for access, demonstrating **SaaS** deployment.

OUTPUT


suganthraj91 - SIMATS Librar
LIST OF EXPERIMENTS
creatorapp.zoho.in/suganthraj91/simats-library-book-reservation-system/#Report:All_Users
Help us improve Zoho Creator! Share your expectations in just 2 minutes. Take survey
Hide
Close
SIMATS Library Book Reservation System
Trial expires in 10 days
Upgrade
Edit this application
Help
SIMATS Library Book Reserva...
All Users
Users
USER
All Users
Books
Reservations
USER ID
NAME
Email
ROLE
1
SUGANTHRAJ.A
suganthraj91@gmail.com
STUDENT
Showing 1 of 1
Suganth Raj
28°C
Mostly cloudy
Search
ENG
IN
13:01
22-12-2025


suganthraj91 - SIMATS Librar
LIST OF EXPERIMENTS
creatorapp.zoho.in/suganthraj91/simats-library-book-reservation-system/#Report:All_Books
Help us improve Zoho Creator! Share your expectations in just 2 minutes. Take survey
Hide
Close
SIMATS Library Book Reservation System
Trial expires in 10 days
Upgrade
Edit this application
Help
SIMATS Library Book Reserva...
All Books
Users
Books
BOOKS
All Books
Reservations
BOOK ID
BOOK TITLE
AUTHOR
CATEGORY
Drop Down
1
CRIM AND PUNISHMENT
DOSTOLSKEY
NOVAL
YES
Showing 1 of 1
Suganth Raj
https://creatorapp.zoho.in/suganthraj91/simats-library-book-reservation-system/#Report:All_Books
28°C
Mostly cloudy
Search
ENG
IN
13:01
22-12-2025



RESULT

Thus, a **cloud-based Library Book Reservation System for SIMATS Library** was successfully designed and implemented using **Zoho Creator** with **three forms (Users, Books, and Reservations)**. The application allows multiple users to access, reserve, and manage library books through a web browser, effectively demonstrating the concept of **Software as a Service (SaaS)** on a cloud platform.