

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

Sugantharaj91 - SIMATS Librari

LIST OF EXPERIMENTS

creatorapp.zoho.in/sugantharaj91/simats-library-book-reservation-system/#Report:All_Users

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SIMATS Library Book Reservation System

Trial expires in 10 daysUpgradeEdit this applicationHelp

SIMATS Library Book Reserva...

Users

USER

All Users

Books

Reservations

All Users

	USER ID	NAME	Email	ROLE
	1	SUGANTHRAJA	sugantharaj91@gmail.com	STUDENT

Showing 1 of 1

Suganth Raj

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creatorapp.zoho.in/sugantharaj91/simats-library-book-reservation-system/#Report:All_Books

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SIMATS Library Book Reservation System

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SIMATS Library Book Reserva...

Users

Books

BOOKS

All Books

Reservations

All Books

	BOOK ID	BOOK TITLE	AUTHOR	CATEGORY	Drop Down
	1	CRIM AND PUNISHMENT	DOSTOLSKY	NOVAL	YES

Showing 1 of 1

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SIMATS Library Book Reservation System

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SIMATS Library Book Reserva... All Reservations

RESERVATION ID	USER	BOOKS	RESERVATION DATE	Drop Down
1	SUGANTHRAJA	DOSTOLSKY	22-Dec-2025 13:01:06	RETURNED

Showing 1 of 1

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.