# SIMATS LIBRARY RESERVATION SYSTEM EXPERIMENT -5

## AIM:

To create a simple cloud software application for the Library Book Reservation System for SIMATS Library using a Cloud Service Provider to demonstrate Software as a Service (SaaS).

### **PROCEDURE:**

- 1. Go to https://creator.zoho.com on your browser.
  - o If you already have a Zoho account, click Sign In.
  - o If not, click Sign Up Now and register for a new account.
- 2. Once logged in, you'll be redirected to your Zoho Creator dashboard. Click on "Create New App" to begin.
- 3. Select "Create from Scratch", then give your application a name like SIMATS Library Reservation System and click Create.
- 4. In the app workspace, click Create New Form. You'll need to build three main forms:
  - Book Catalog Form to add and manage book listings.
  - ∘ Student Reservation Form for students to request/reserve books.
  - Reservation Status Form to track the approval or rejection of reservations.
- 5. Use the form builder to add the required fields by dragging and dropping:
  - Book Catalog Form:
     Book ID, Book Title, Author, Category, ISBN, Number of Copies,
     Availability Status.

## Student Reservation Form:

Reservation ID, Student Name, Register Number, Book (lookup from Book Catalog), Reservation Date.

## o Reservation Status Form:

Reservation ID (lookup), Status (Reserved / Issued / Cancelled), Issue Date, Return Date, Remarks.

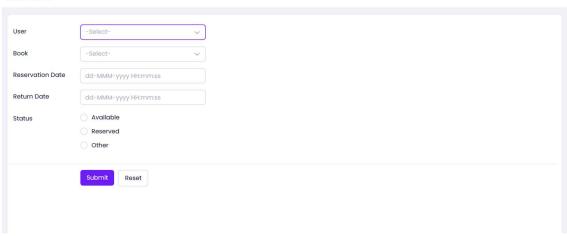
- 6. Click Done to save each form once fields are added and arranged properly.
- 7. Zoho Creator automatically generates Reports for each form. These reports provide tabular views to manage data.
- 8. Configure Workflows and Automation (optional):
  - Use Deluge script to reduce book count after issuing.
  - o Trigger alerts for return reminders.
  - o Auto-update book availability.
- 9. Set User Roles and Permissions:
  - o Librarian/Admin: Full access to book records and reservations.
  - o Student: Can reserve books and view their reservation status.
- 10. Click on Access this Application to preview the system.

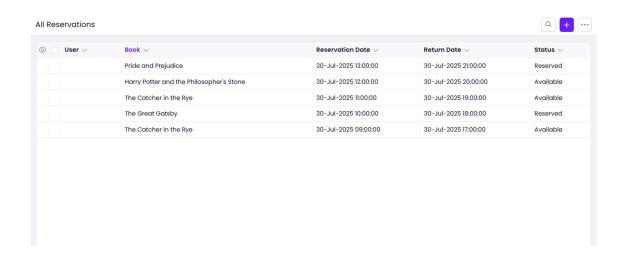
Test it by entering sample books, student reservations, and status updates.

11. To demonstrate SaaS, share the app via public URL or email. This allows multi-user access from any device with internet access, without software installation.

# FORM 1:

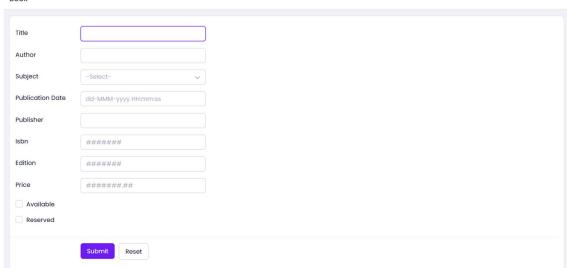
#### Reservation

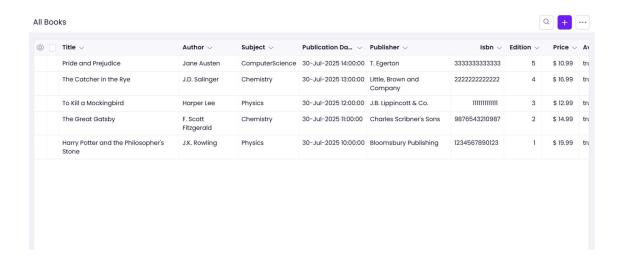




# FORM 2:

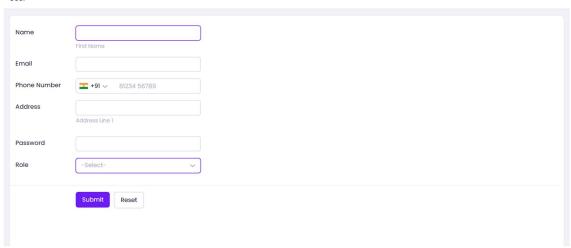
#### Book

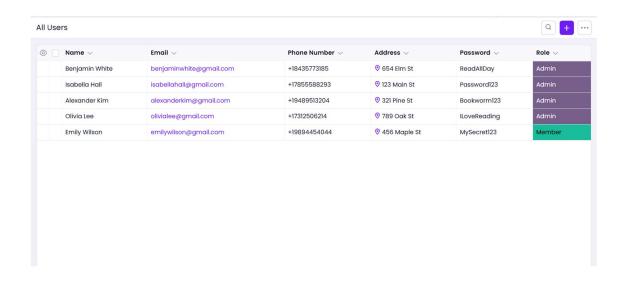




# **FORM 3:**

#### User





# **RESULT:**

Thus, the Library Book Reservation System cloud software application for SIMATS Library was successfully developed and deployed using Zoho Creator. The application was tested and verified for proper functionality. It demonstrated the key features of Software as a Service (SaaS), allowing users to access and manage book reservations over the internet in real-time.