

CSA1519-CLOUD COMPUTING FOR BIG DATA ANALYTICS

LAB EXPERIMENTS

1. Create a simple cloud software application and provide it as a service using any Cloud Service Provider to demonstrate Software as a Service (SaaS).

AIM

To design and deploy a cloud-based Hospital Management System using Zoho Creator and provide it as a Software as a Service (SaaS), enabling users to access hospital services such as patient registration, appointment scheduling, and health record management through the internet.

MATERIALS REQUIRED

◆ Hardware Requirements

- Computer / Laptop
- Internet connection

◆ Software Requirements

- Web Browser (Google Chrome / Edge)
- Zoho Account
- Zoho Creator (Cloud Platform)

◆ Cloud Service Provider

- Zoho Cloud

PROCEDURE

Step 1: Create Zoho Account

1. Open a web browser.
2. Go to the Zoho website.
3. Sign up or log in using an existing Zoho account.

Step 2: Access Zoho Creator

1. Open **Zoho Creator** from the Zoho dashboard.
2. Click **Create Application**.
3. Select **Blank Application**.
4. Enter application name as **Hospital Management System**.

Step 3: Create Patient Details Form

1. Click **Create Form**.
2. Add the following fields:
 - Name
 - Date of Birth
 - Gender
 - Phone Number
 - Email
 - Last Visit Date
 - Address
3. Save the form.

Step 4: Create Admission Form

1. Add fields:
 - Patient Token Number
 - Patient Name
 - Blood Group
 - Date Of Admission
 - Room Number
 - Bed Type

Step 5: Create Medicine Form

1. Add fields:
 - Medicine Name
 - Dosage

Step 6: Create Discharge Form

1. Add Fields:
 - Patient Name
 - Discharge Date
 - Discharge Time
 - Diet Recommendation

Step 7: User Access and Permissions

1. Configure **user roles** such as Admin, Doctor, and Receptionist.
2. Assign permissions for viewing and editing data.

Step 8: Deploy as SaaS

1. Publish the application.
2. Share application access with multiple users.
3. Users can access the application through a web URL.

OUTPUT

The screenshot shows a patient details form within a web-based application interface. At the top, there are navigation icons and a message indicating the trial expires in 15 days. Below this is a header row with columns for Name, Contact Number, and Address. A row for a specific patient is selected, showing the contact number 7989023274 and the address as chettipet. The main content area displays a table of patient information:

Patient Name	sudharshan reddy panga
age	20
Gender	MALE
Contact Number	7989023274
Address	📍 chettipet , saveetha nagar, 232, tamilnadu, 606232, India
Health Problem	fever
Date of Visit	17-Dec-2025

At the bottom left of the form area, there is a link to "Add a comment".

Figure 1: Patient Details Form

Salesforce

View as

My Case

Last updated

Mark as Expired

Mark as Draft

Print

Help

Edit

Duplicate

More

X

Patient token no.	012
Patient Name	Panga Sudarshan
Blood Group	B-
Date Of Admission	18-Dec-2025
Room Number	T06
Bed Type	Single

Add a comment

Like

Figure 2: Appointment Form

Salesforce

View as

My Case

Last updated

Mark as Expired

Mark as Draft

Print

Help

Edit

Duplicate

More

X

Dosage	250 mg
Medicine Names	Paracetamol Amoxicillin Ibuprofen

Add a comment

Like

Figure 3: Medicine form

Patient Name	panga sudarshan
Discharge Date	20-Dec-2025
Diet Recommendation	Eat the Food with high Protien
Discharge Time	12:00:00
Medication Summary	Don't take the medicine without eating food. Take after eating the food

Add a comment

Figure 4: Discharge form

RESULTS

The cloud-based Hospital Management System was successfully designed, developed, and deployed using Zoho Creator as a Software as a Service (SaaS) application.

