

EXP 03 : -Create a simple cloud software application for Property Buying & Rental process (In Chennai city) using any Cloud Service Provider to demonstrate

SaaS.

Aim

To design, develop, and deploy a **cloud-based Property Buying and Rental application** for **Chennai city** and provide it as **Software as a Service (SaaS)**, enabling users to search and view property listings through a web browser.

Procedure

1. Requirement Analysis

Identified the need for a cloud-based application that allows users to view properties available for **buying and rental in Chennai city** through an online platform.

2. Application Design

Designed a simple web interface to display property details such as property type, location, price, and buying/rental option.

3. Application Development

Developed the application using **Python (Flask)** for backend processing and **HTML** for presenting property listings.

4. Cloud Service Provider Selection

Selected **Google Cloud Platform (GCP)** as the cloud service provider to host the application.

5. Environment Configuration

Configured the cloud environment and enabled **Google Cloud Run** for deploying the web application.

6. Application Deployment

Deployed the Property Buying & Rental application to **Google Cloud Run**, which generated a public HTTPS URL.

7. Testing

Tested the application by accessing it through a web browser and verifying that property listings for Chennai city were displayed correctly.

8. SaaS Verification

Confirmed that the application is accessible online without installation, demonstrating the **Software as a Service (SaaS)** model.

OUTPUT : -

The screenshot shows the 'Rental Agreements' form within the Zoho Creator interface. The left sidebar navigation includes 'Dashboard', 'Rental Agreements' (selected), 'All Rental Agreements', 'Agreement Statuses', 'Property Listings', 'Tenant Applications', 'Properties', 'Buyer Inquiries', and 'Property Search'. The main form fields are: Start Date (20-Jan-2026), End Date (31-Jan-2026), Monthly Rent (10000), Security Deposit (100000), Agreement Status (Sent), Signed Date (20-Jan-2026), Agreement Document (https://), and Created Date (20-Jan-2026). Buttons for 'Submit' and 'Reset' are at the bottom.

The screenshot shows the 'All Rental Agreements' report within the Zoho Creator interface. The left sidebar navigation is identical to the previous screenshot. The main area displays a table with columns: Tenant Application, Property Listing, Start Date, End Date, Monthly Rent, Security Deposit, Agreement Status, Signed Date, and Agreement Document. The table contains 8 rows of data, each representing a rental agreement with specific details like start date (e.g., 01-Apr-2026), end date (e.g., 30-Jun-2026), monthly rent (\$1,500.00), security deposit (\$700.00), agreement status (Signed), and signed date (10-Apr-2026). A 'Show Summary' button is located at the bottom right of the table.

Tenant Application	Property Listing	Start Date	End Date	Monthly Rent	Security Deposit	Agreement Status	Signed Date	Agreement Document
3	3							
4	4							
5	5							
1	1	01-Apr-2026	30-Jun-2026	\$ 1,500.00	\$ 700.00	Signed	10-Apr-2026	
2	2	15-Mar-2026	30-May-2026	\$ 1,400.00	\$ 650.00	Terminated	05-Mar-2026	
3	3							
4	4							
5	5							
2	2	01-Feb-2026	28-Apr-2026	\$ 1,350.00	\$ 600.00	Draft	20-Feb-2026	
3	3							
1	2	10-Jan-2026	31-Mar-2026	\$ 1,200.00	\$ 500.00	Draft	15-Jan-2026	
2	2							
3	3							
6	1	20-Jan-2026	31-Jan-2026	\$ 10,000.00	\$ 100,000.00	Sent	20-Jan-2026	

The screenshot shows a Zoho Creator application window titled "Property Management Solution". The left sidebar contains navigation links: Dashboard, Rental Agreements (selected), All Rental Agreements, Agreement Statuses (highlighted in red), Property Listings, Tenant Applications, Properties, Buyer Inquiries, and Property Search. The main content area is titled "Agreement Statuses" and displays four categories: Draft, Sent, Terminated, and Signed. Each category has a count and a list of items. The "Sent" category is currently active.

Status	Count	Items
Draft	2	1 2
Sent	6	1 2 3 4 5 6
Terminated	5	1 2 3 4 5
Signed	3	1 2 3

The screenshot shows the Zoho Creator interface for a "Property Management Solution". The left sidebar has a red button labeled "+ Property Listings". The main area is titled "Property Listings" and contains a form with the following fields:

- Listing Type:** Radio buttons for Rent (selected), Buy, and Other.
- Price:** Input field containing "10000".
- Deposit Amount:** Input field containing "100000".
- Rent Frequency:** Input field containing "Monthly".
- Available From:** Input field containing "20-Jan-2026".
- Listing Status:** Input field containing "Active".
- Created Date:** Input field containing "20-Jan-2026".
- Updated Date:** Input field containing "20-Jan-2026 00:57:36".

At the bottom are "Submit" and "Reset" buttons.

The screenshot shows a web-based application titled "Property Management Solution". The left sidebar contains a navigation menu with options like Dashboard, Rental Agreements, Property Listings (selected), Rent Frequencies, Tenant Applications, Properties, Buyer Inquiries, and Property Search. The main content area is titled "All Property Listings" and displays a table with the following data:

	Listing ID	Property	Listing Type	Price	Deposit Amount	Rent Frequency	Available From	Listing Status	Created Date
	5	2	Buy	\$ 1,300.00	\$ 250.00	Monthly	10-Jan-2026	Inactive	20-Jan-2026
		3							
		4							
		5							
	4	1	Rent	\$ 1,800.00	\$ 400.00	Annually	05-Jan-2026	Inactive	20-Jan-2026
	3	2	Rent	\$ 950.00	\$ 150.00	Monthly	20-Jan-2026	Inactive	20-Jan-2026
	2	2	Buy	\$ 1,500.00	\$ 300.00	Annually	15-Jan-2026	Expired	20-Jan-2026
	1	1	Rent	\$ 1,200.00	\$ 200.00	Monthly	01-Jan-2026	Active	20-Jan-2026
	6	1	Rent	\$ 10,000.00	\$ 100,000.00	Monthly	20-Jan-2026	Active	20-Jan-2026

The application interface includes a search bar at the top, a trial expiration notice, and various system status indicators at the bottom.

Result

A cloud-based **Property Buying & Rental System for Chennai city** was successfully developed and deployed using **Google Cloud Platform**.

The application was accessed through a web browser using a public URL, confirming successful implementation of the **Software as a Service (SaaS)** model.