SIMATS ENGINERRING

LAB MANUL

COURSE CODE:CSA1522

CLOUD COMPUTINNG AND BIG DATA ANALYTICS

NAME: KEERTHANA.L

REG.NO:192521062

EXP NO1: Flight Reservation System

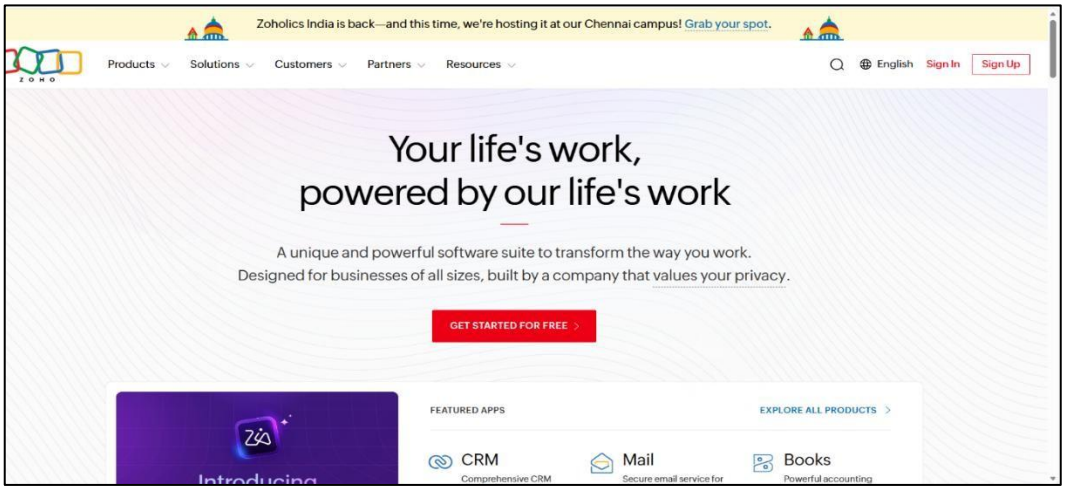
Aim:
To develop a cloud-based Flight Reservation System using Zoho Creator to demonstrate SaaS.

Steps:

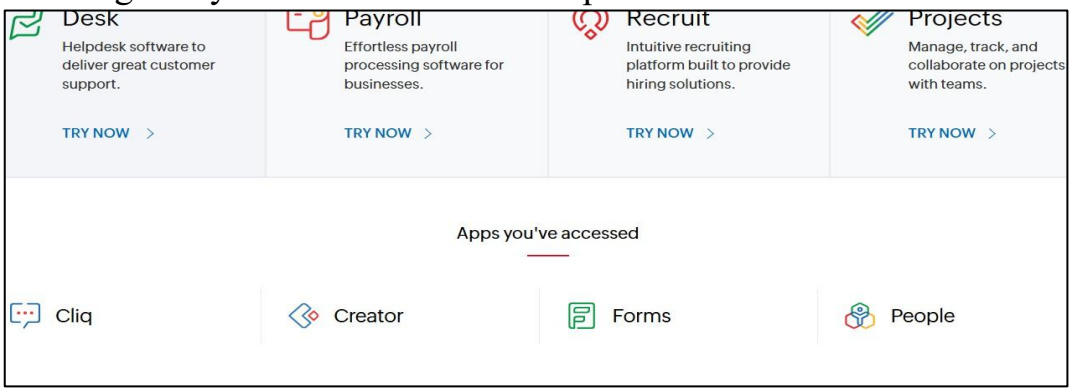
1. Log in to Zoho Creator and click Create New Application.
2. Create a Flight Reservation form.
3. Add fields: From, To, Departure Date, Return Date, Travelers, Class, Fare Type, Flight Type, and Passenger Name.
4. Save the form and create a report to display reservation records.
5. Enter sample data, verify the records, and publish the application.

Implemented:

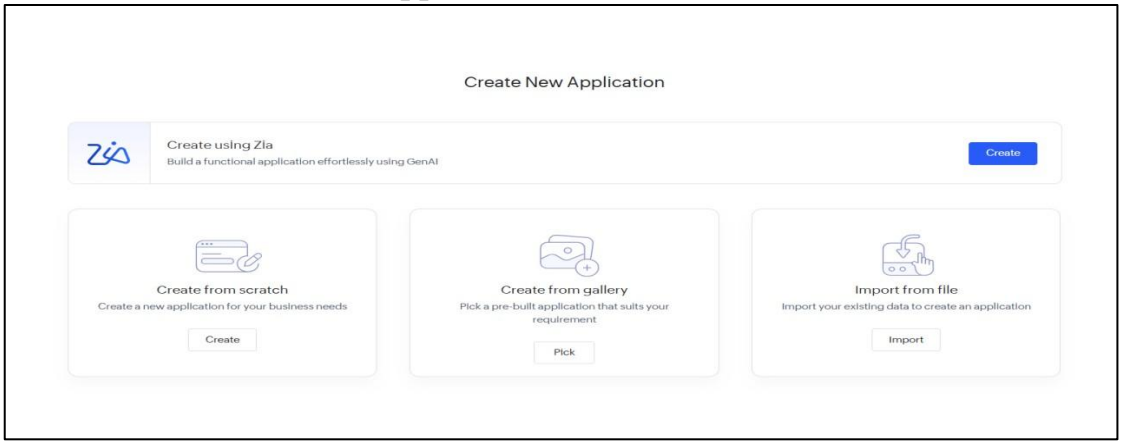
Step 1: Go to zoho.com



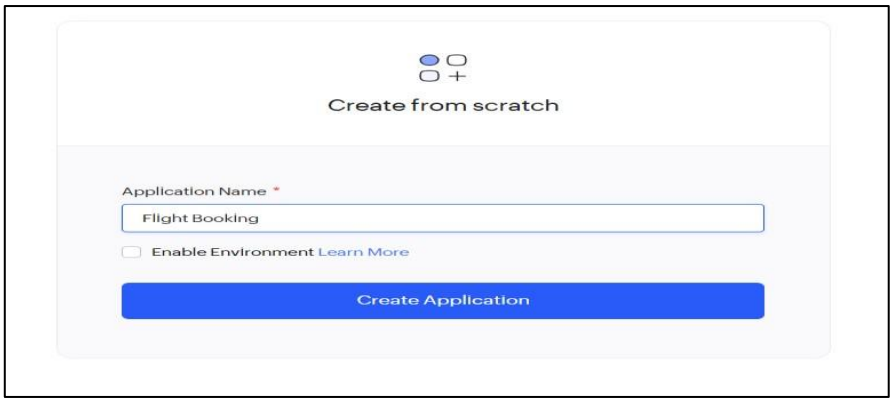
STEP 2: Login to your Zoho account and open Zoho Creator



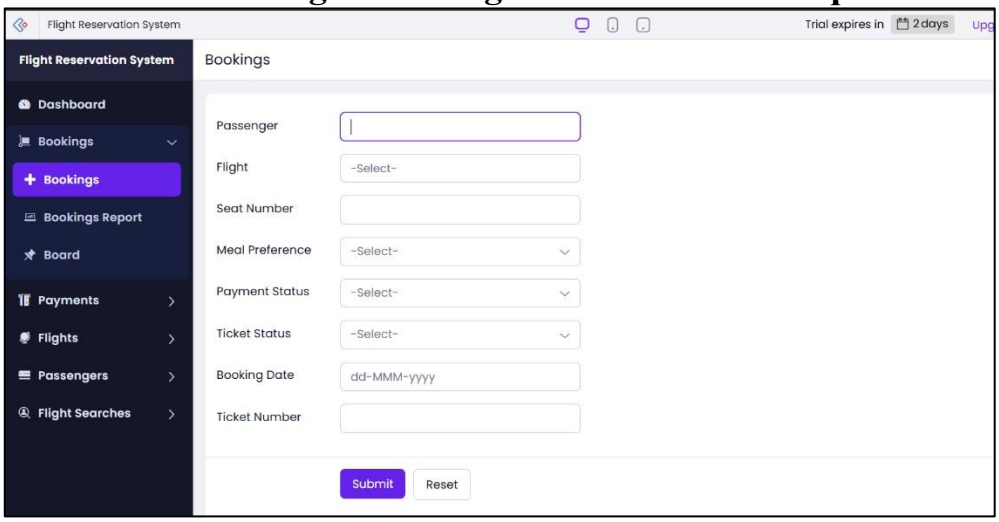
STEP 3: Click Create New Application and select Create from Scratch

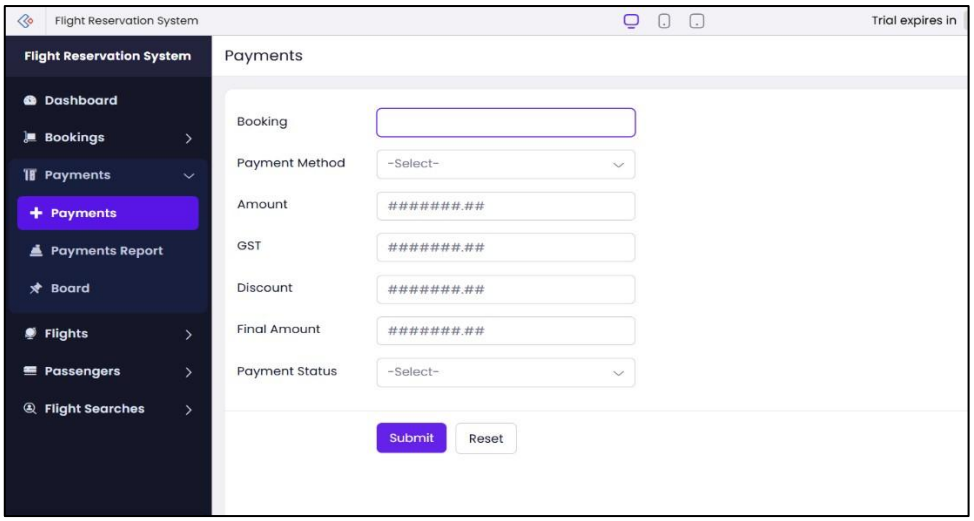


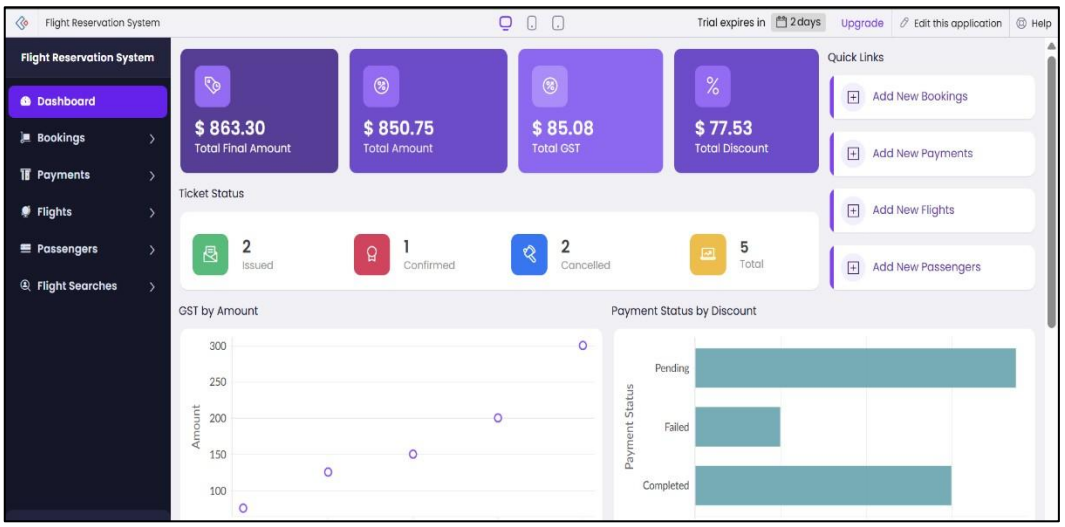
STEP 4: Enter Flight Reservation System as the application name and click Create Application**.**



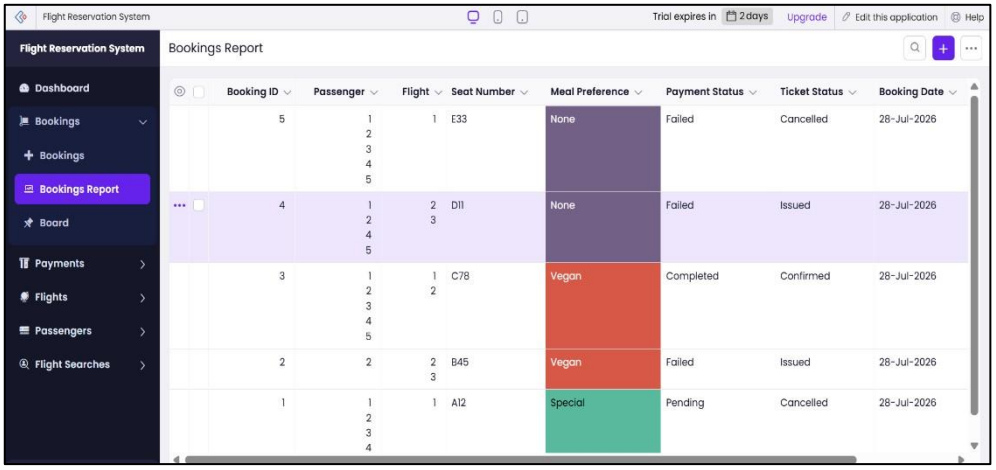
STEP 5: Create a Flight Booking form and add all required fields

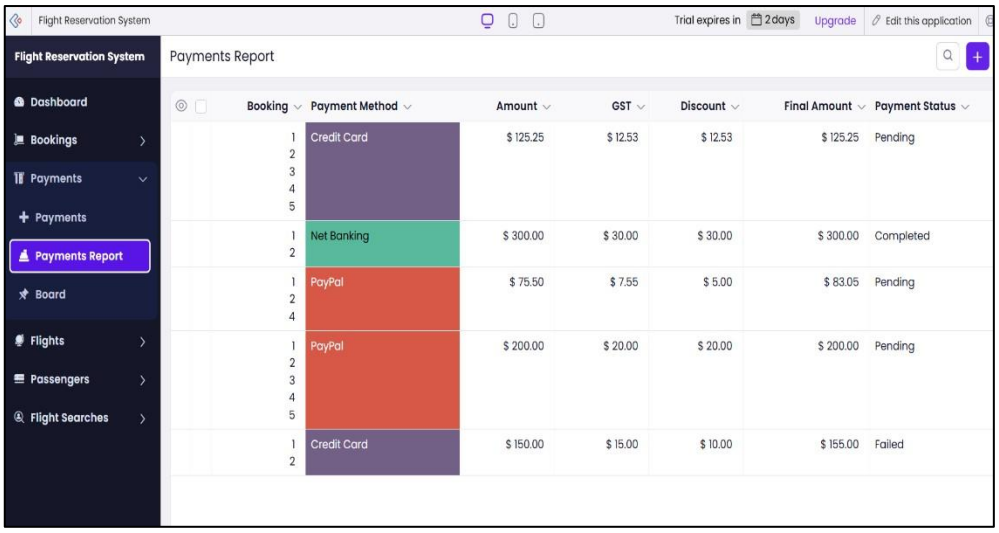




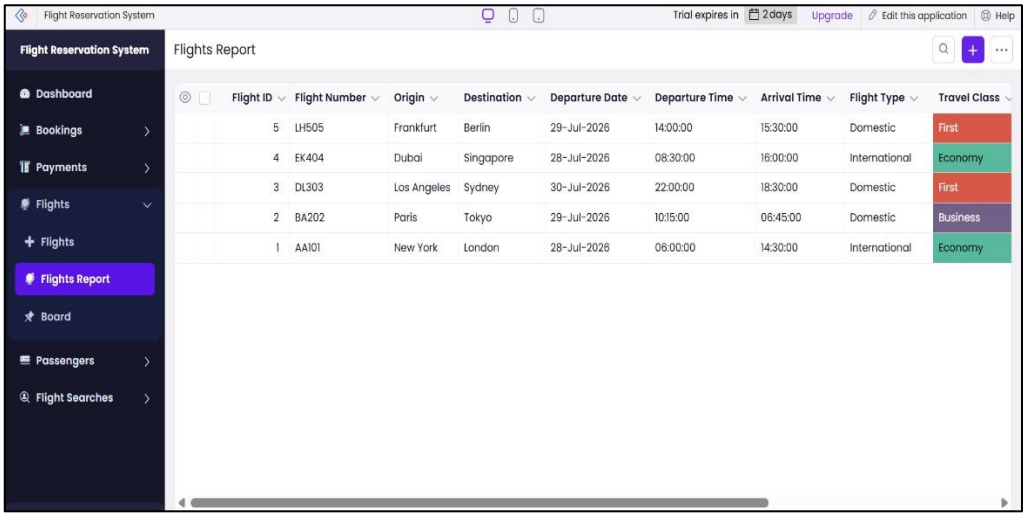


STEP 6: Save the form, enter sample booking records, and view them in the Flight Booking Report.

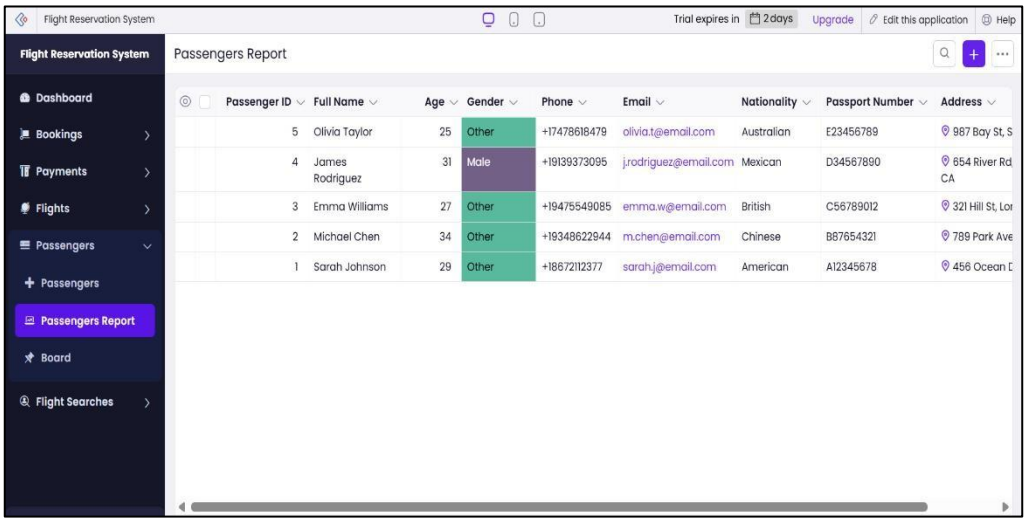




Booking	Payment Method	Amount	GST	Discount	Final Amount	Payment Status
1 2 3 4 5	Credit Card	$ 125.25	$ 12.53	$ 12.53	$ 125.25	Pending
1 2	Net Banking	$ 300.00	$ 30.00	$ 30.00	$ 300.00	Completed
1 2 4	PayPal	$ 75.50	$ 7.55	$ 5.00	$ 83.05	Pending
1 2 3 4 5	PayPal	$ 200.00	$ 20.00	$ 20.00	$ 200.00	Pending
1 2	Credit Card	$ 150.00	$ 15.00	$ 10.00	$ 155.00	Failed



Flight ID	Flight Number	Origin	Destination	Departure Date	Departure Time	Arrival Time	Flight Type	Travel Class
5	LH505	Frankfurt	Berlin	29-Jul-2026	14:00:00	15:30:00	Domestic	First
4	EK404	Dubai	Singapore	28-Jul-2026	08:30:00	16:00:00	International	Economy
3	DL303	Los Angeles	Sydney	30-Jul-2026	22:00:00	18:30:00	Domestic	First
2	BA202	Paris	Tokyo	29-Jul-2026	10:15:00	06:45:00	Domestic	Business
1	AA101	New York	London	28-Jul-2026	06:00:00	14:30:00	International	Economy



Passenger ID	Full Name	Age	Gender	Phone	Email	Nationality	Passport Number	Address
5	Olivia Taylor	25	Other	+17478618479	olivia.t@email.com	Australian	E23456789	987 Bay St, S
4	James Rodriguez	31	Male	+19139373095	j.rodriguez@email.com	Mexican	D34567890	654 River Rd CA
3	Emma Williams	27	Other	+19475549085	emma.w@email.com	British	C56789012	321 Hill St, Lor
2	Michael Chen	34	Other	+19348622944	m.chen@email.com	Chinese	B87654321	789 Park Ave
1	Sarah Johnson	29	Other	+18672112377	sarah.j@email.com	American	A12345678	456 Ocean D

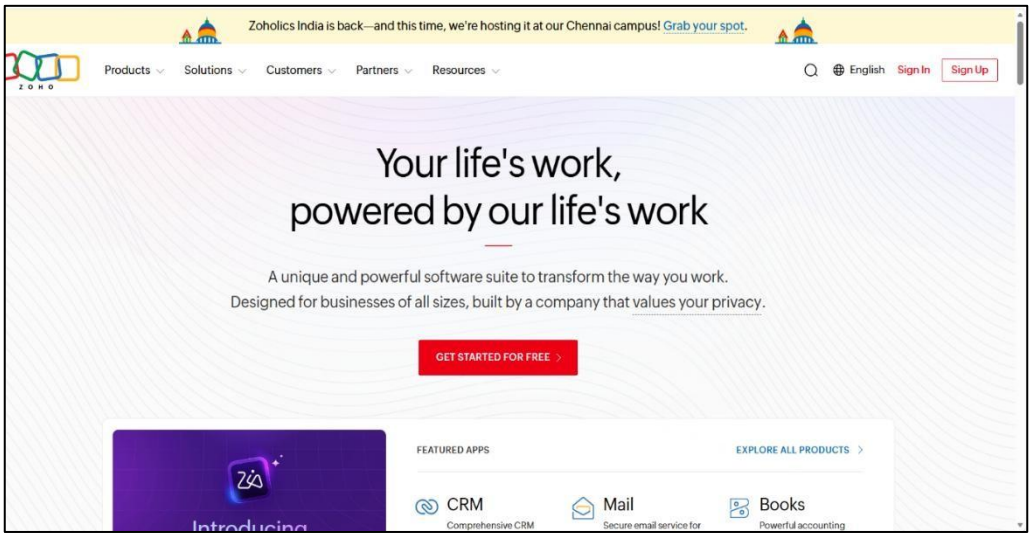
EXP NO 2: Property Buying & Rental System

Aim:
To create a cloud-based Property Buying & Rental System using Zoho Creator.

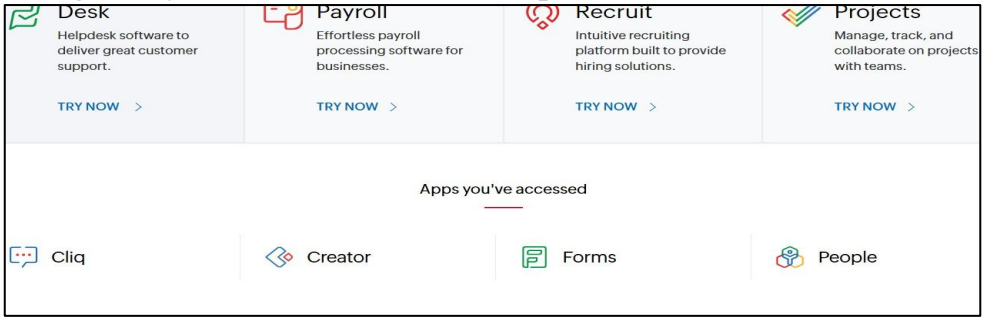
Steps:

1. Create a new application in Zoho Creator.
2. Create a Property Details form.
3. Add fields: Buy/Rent, Property Type, Area, Location, Price, Rental Agreement, and Owner Details.
4. Create reports to view and search property records.
5. Test the application by entering sample property details.

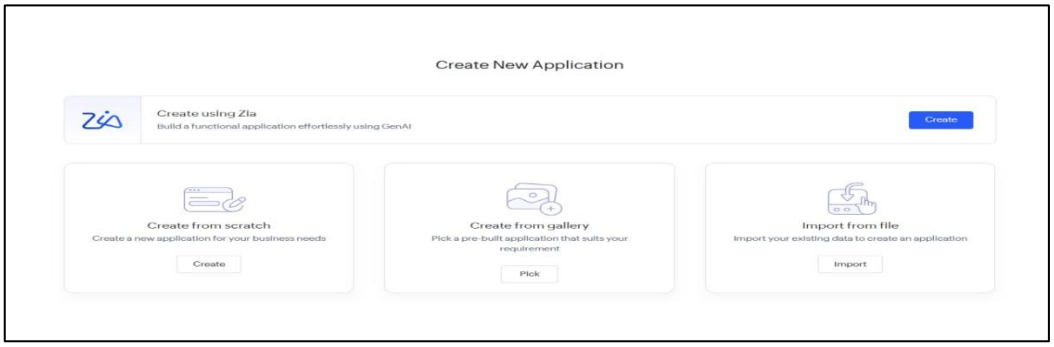
Implemented
Step 1: Go to zoho.com



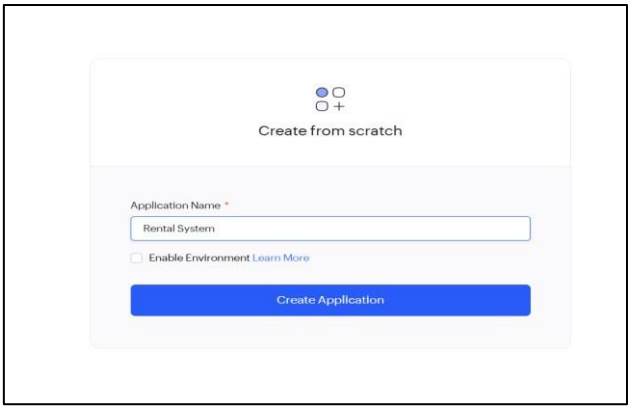
STEP 2: Login to your Zoho account and open Zoho Creator



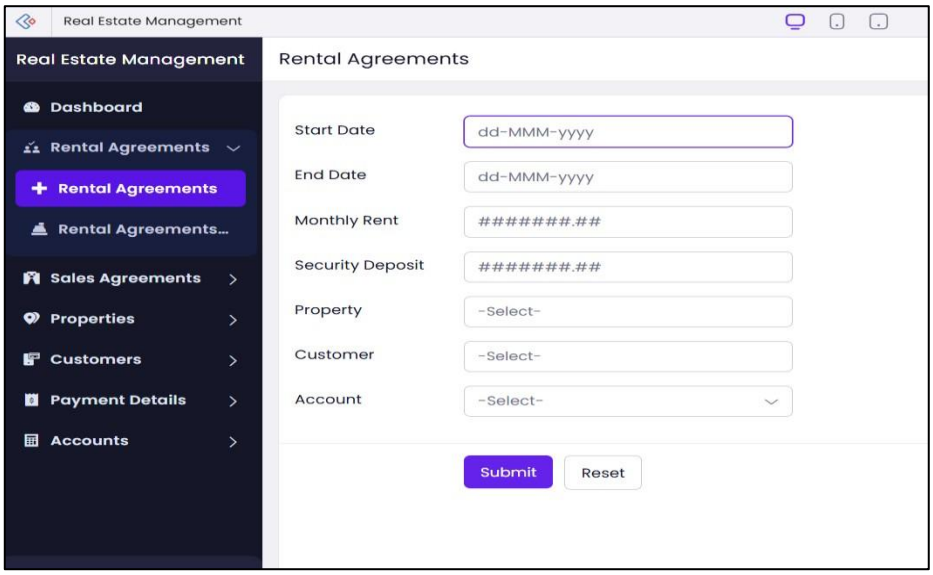
STEP 3: Click Create New Application and select Create from Scratch

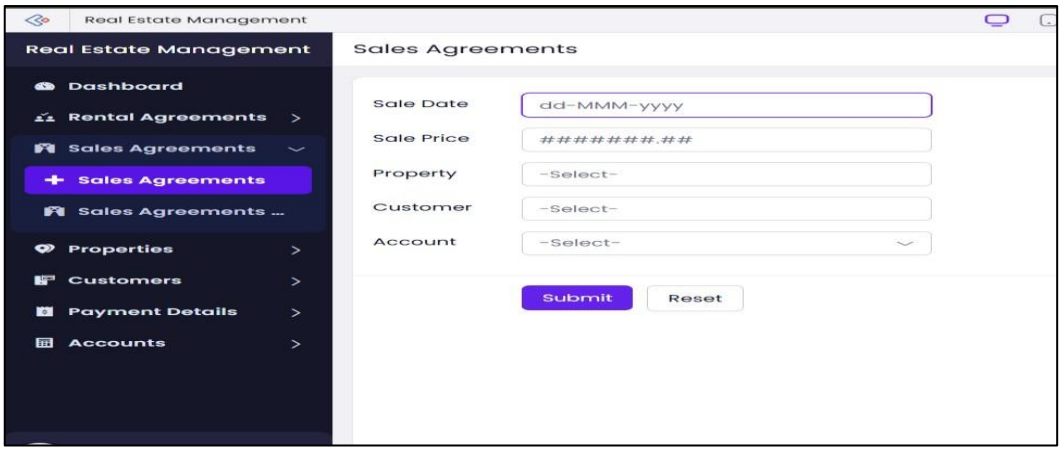


STEP 4: Enter Rental System as the application name and click Create Application**.**



Step 5: Add fields: Buy/Rent, Property Type, Area, Location, Price, Rental Agreement, and Owner Details.




Real Estate Management
Real Estate Management
Sales Agreements
Dashboard
Rental Agreements
Sales Agreements
Sales Agreements
Sales Agreements ...
Properties
Customers
Payment Details
Accounts
Sale Date
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Sale Price
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Property
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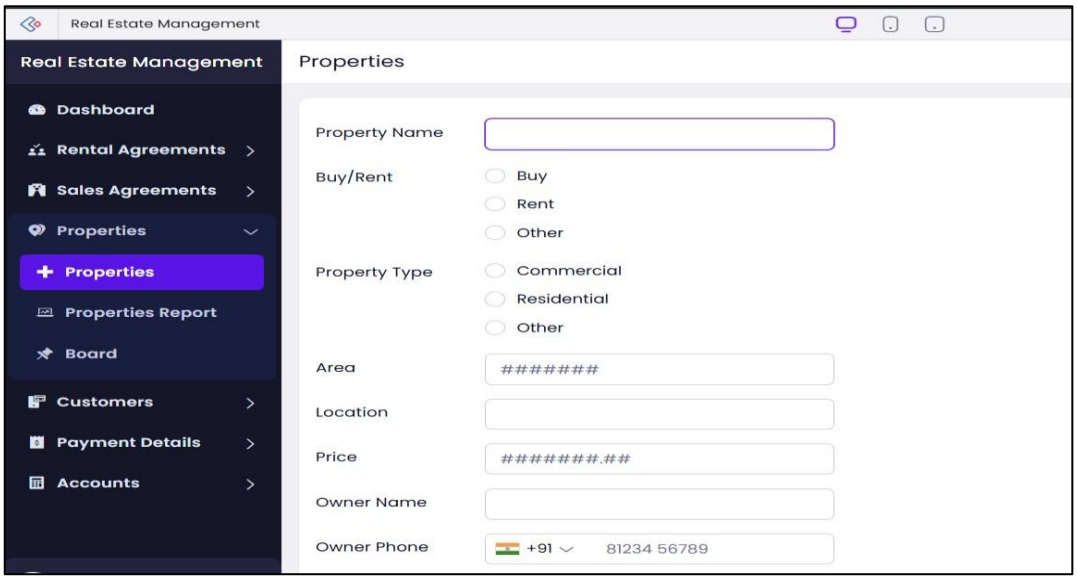
-Select-
Account
-Select-
Submit
Reset


Real Estate Management
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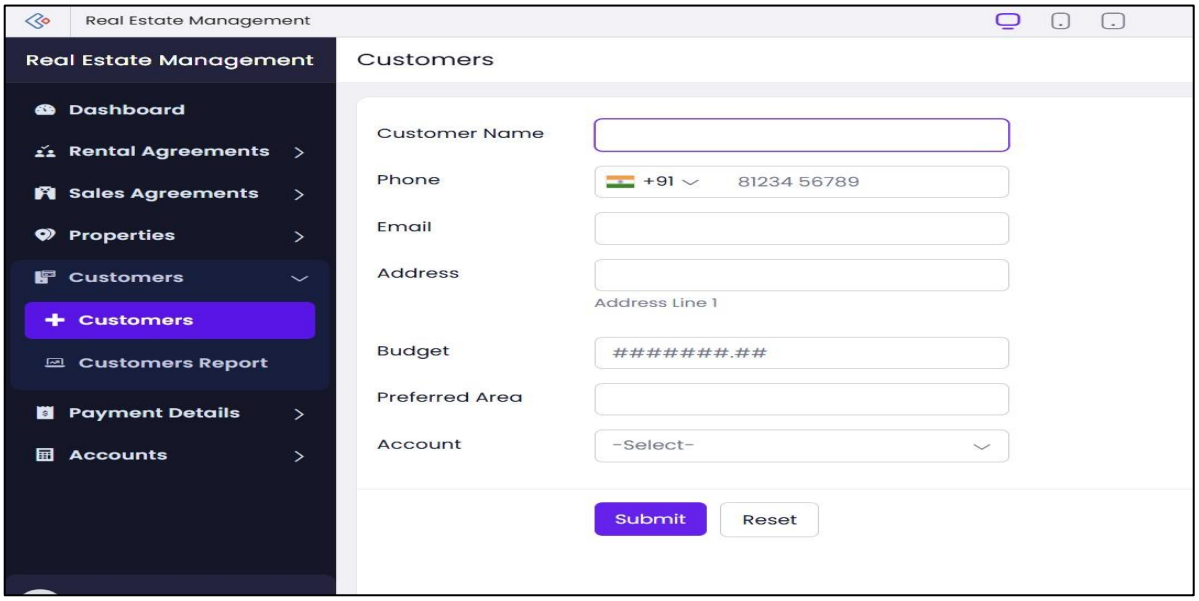
Real Estate Management
Real Estate Management
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Dashboard
Rental Agreements
Sales Agreements
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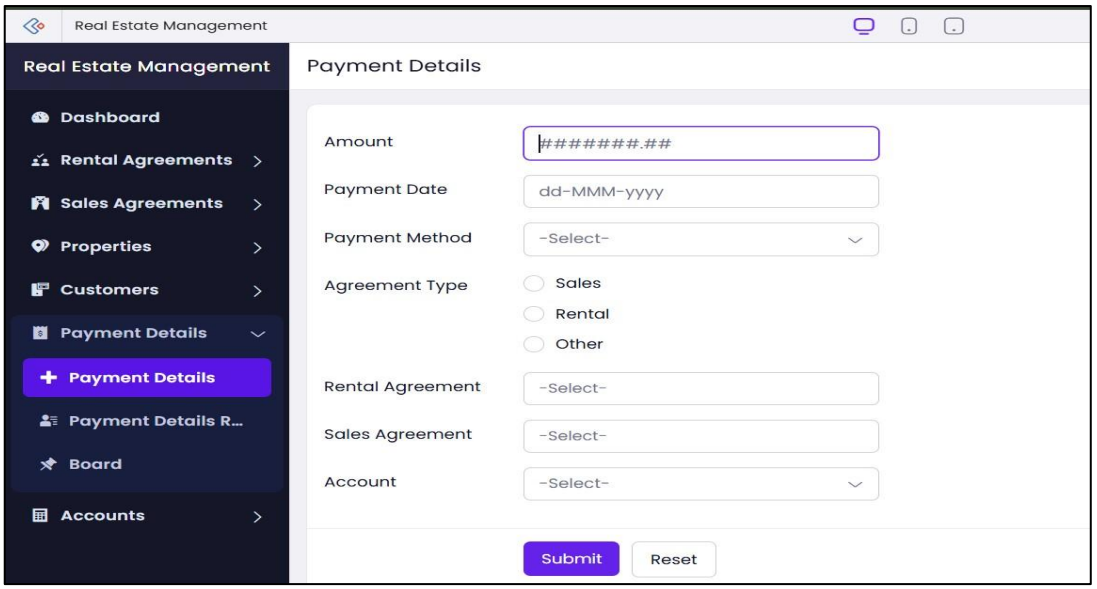
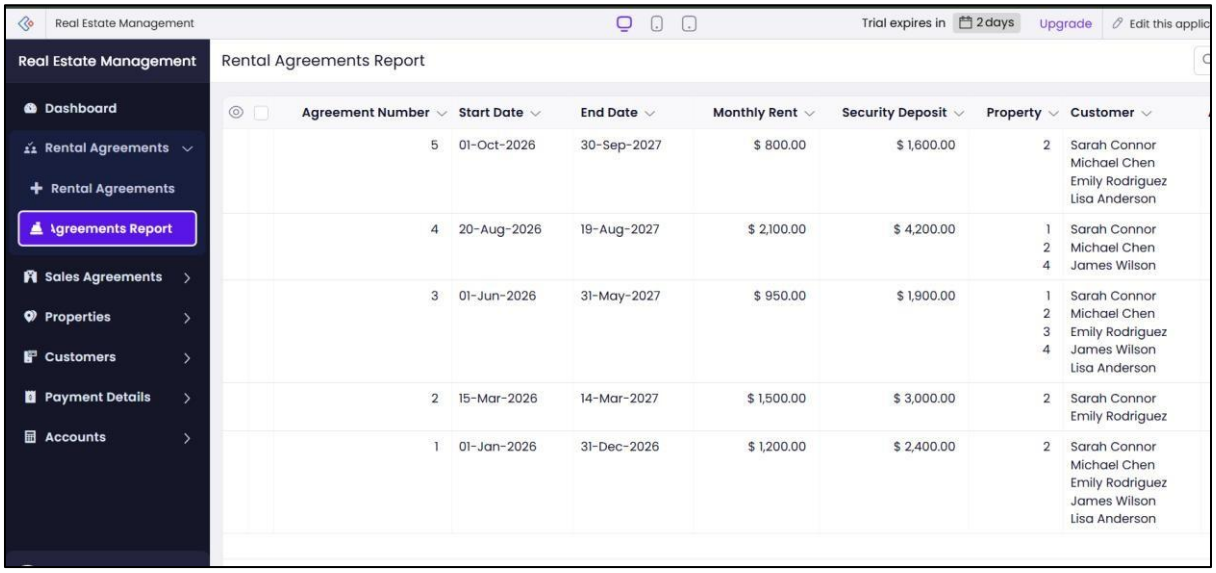
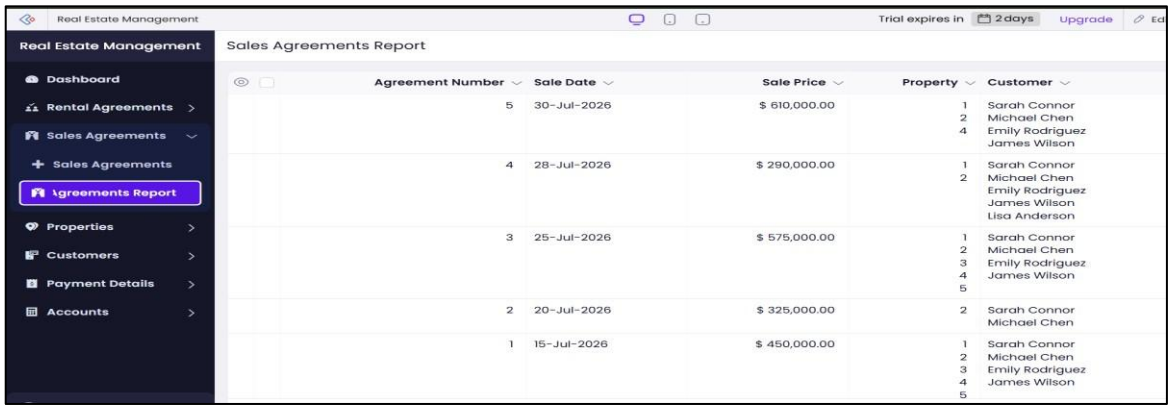
Reset



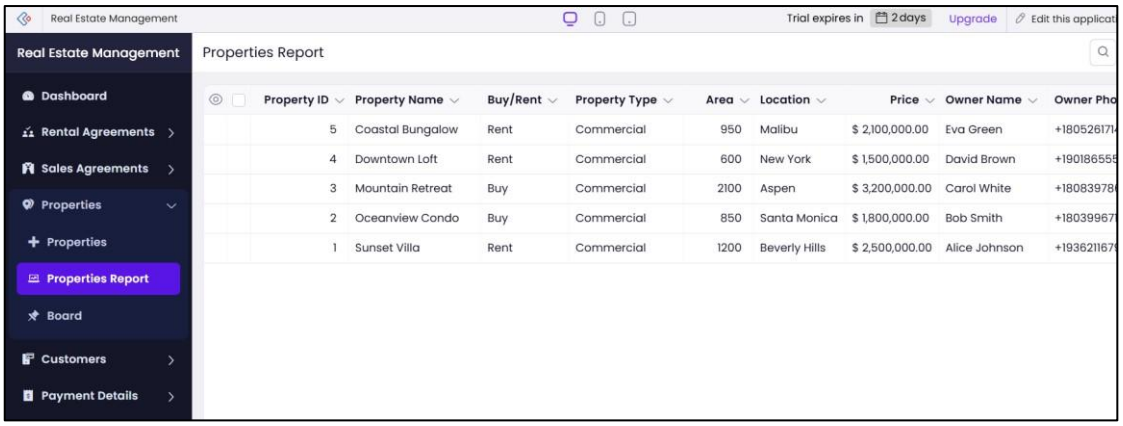
STEP 6: Save the form, enter sample booking records, and view them in the Rental System.

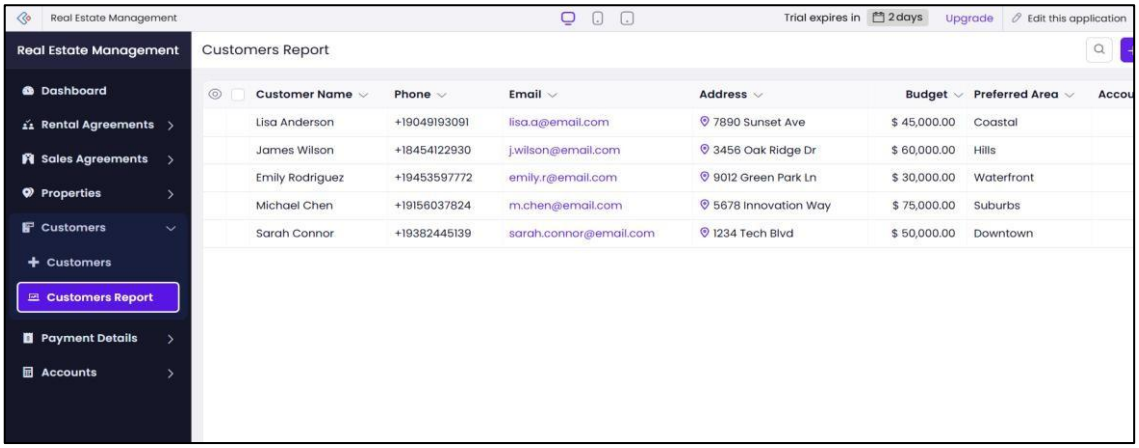


Agreement Number	Start Date	End Date	Monthly Rent	Security Deposit	Property	Customer
5	01-Oct-2026	30-Sep-2027	$ 800.00	$ 1,600.00	2	Sarah Connor Michael Chen Emily Rodriguez Lisa Anderson
4	20-Aug-2026	19-Aug-2027	$ 2,100.00	$ 4,200.00	1 2 4	Sarah Connor Michael Chen James Wilson
3	01-Jun-2026	31-May-2027	$ 950.00	$ 1,900.00	1 2 3 4	Sarah Connor Michael Chen Emily Rodriguez James Wilson Lisa Anderson
2	15-Mar-2026	14-Mar-2027	$ 1,500.00	$ 3,000.00	2	Sarah Connor Emily Rodriguez
1	01-Jan-2026	31-Dec-2026	$ 1,200.00	$ 2,400.00	2	Sarah Connor Michael Chen Emily Rodriguez James Wilson Lisa Anderson

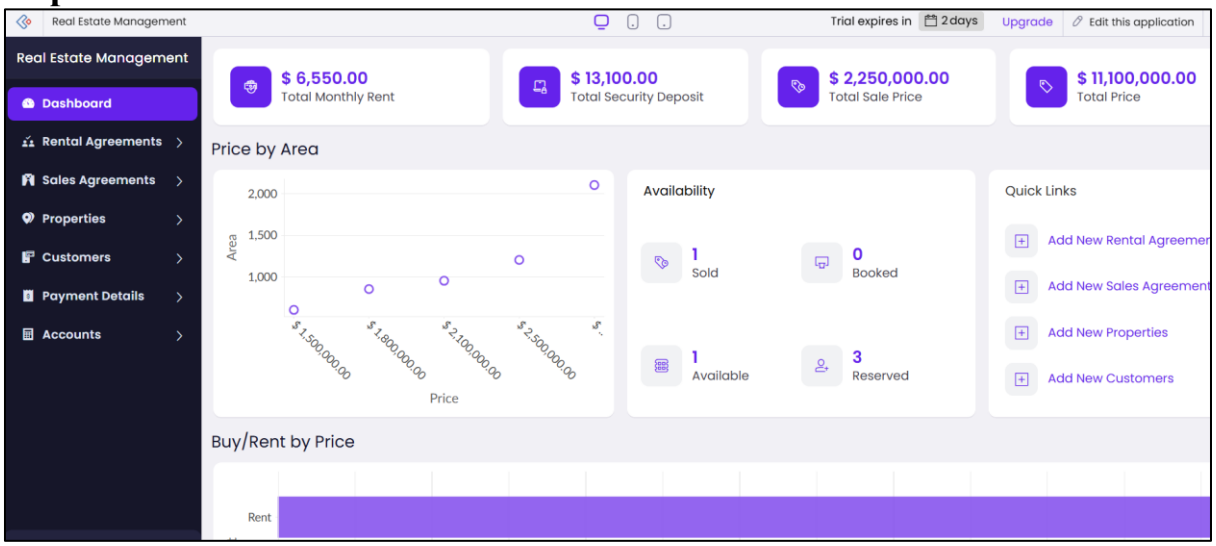


Agreement Number	Sale Date	Sale Price	Property	Customer
5	30-Jul-2026	$ 610,000.00	1 2 4	Sarah Connor Michael Chen Emily Rodriguez James Wilson
4	28-Jul-2026	$ 290,000.00	1 2	Sarah Connor Michael Chen Emily Rodriguez James Wilson Lisa Anderson
3	25-Jul-2026	$ 575,000.00	1 2 3 4 5	Sarah Connor Michael Chen Emily Rodriguez James Wilson
2	20-Jul-2026	$ 325,000.00	2	Sarah Connor Michael Chen
1	15-Jul-2026	$ 450,000.00	1 2 3 4 5	Sarah Connor Michael Chen Emily Rodriguez James Wilson





Step 7:DashBoard



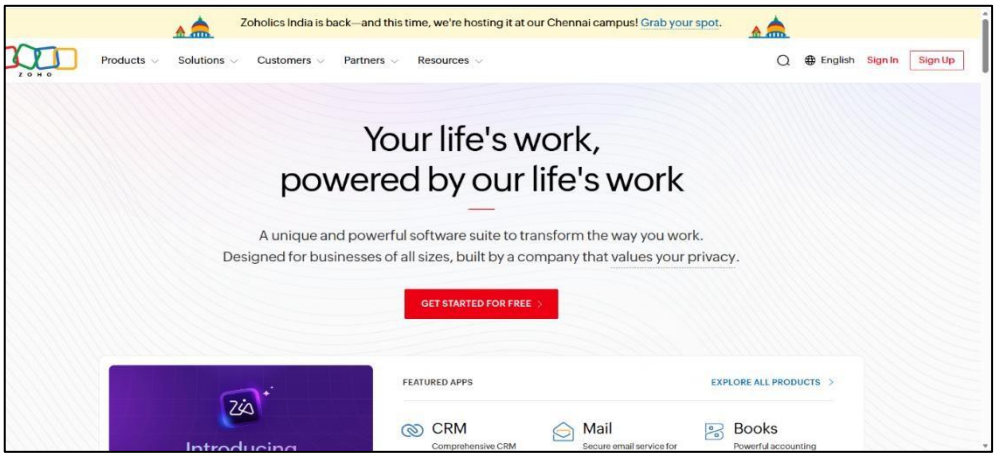
EXP NO 3: Car Booking Reservation System

Aim:
To develop a cloud-based Car Booking Reservation System using Zoho Creator.

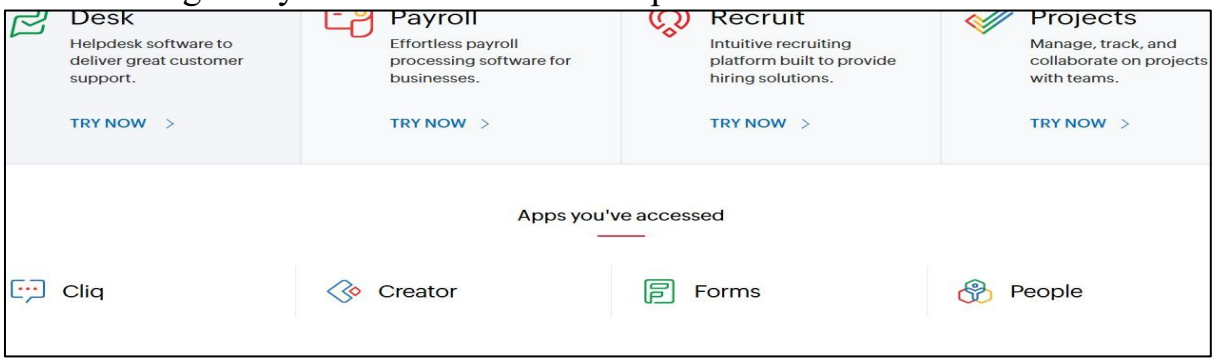
Steps:

1. Create a new application in Zoho Creator.
2. Create a Car Booking form.
3. Add fields: Customer Name, Pickup Location, Drop Location, Rental/Outstation, Package Type, Date, and Duration.
4. Create reports to display booking details.
5. Enter sample bookings and verify the records.

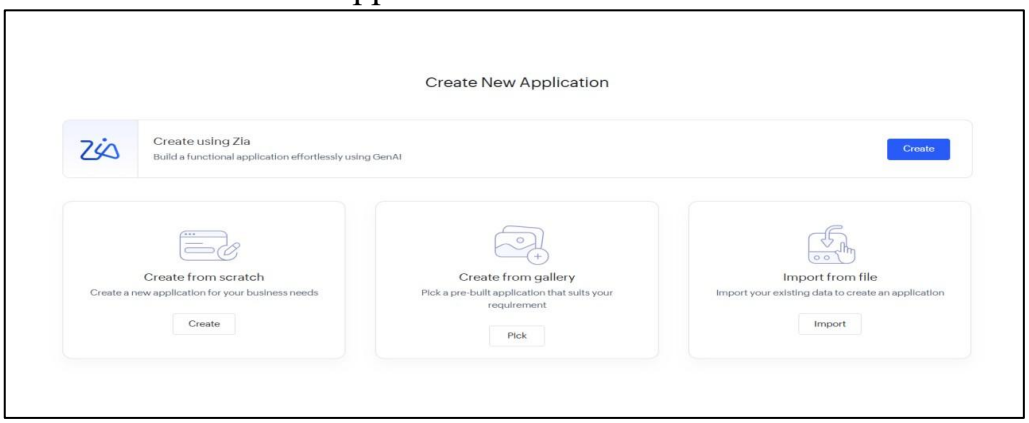
Implemented
Step 1: Go to zoho.com



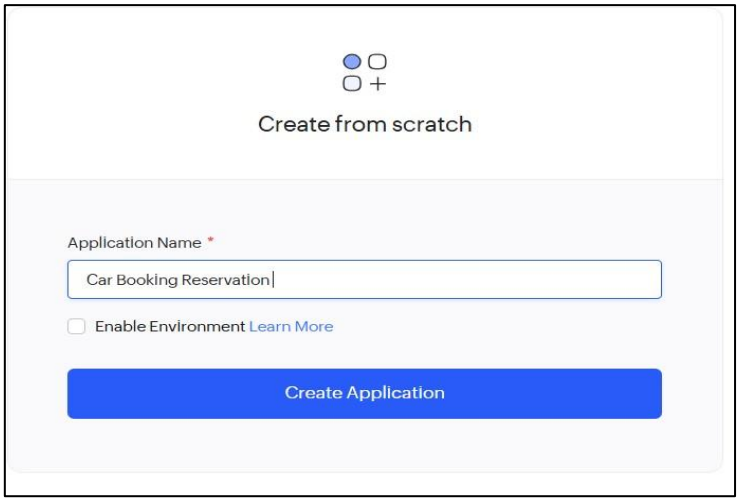
STEP 2: Login to your Zoho account and open Zoho Creator



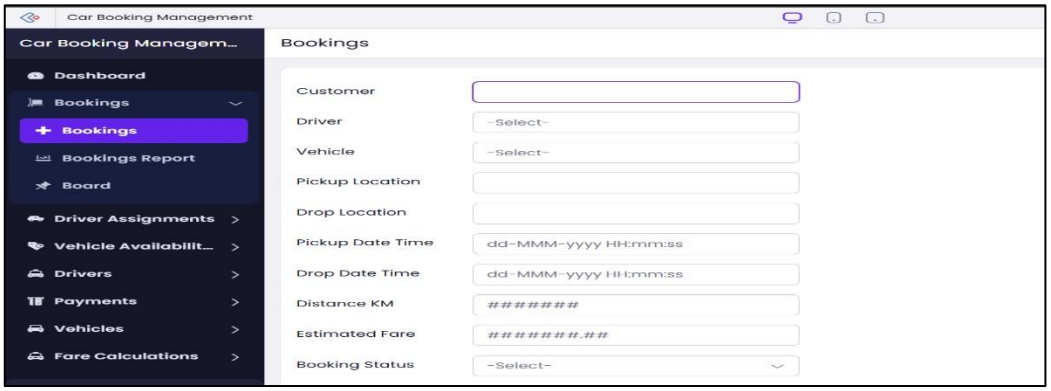
STEP 3: Click Create New Application and select Create from Scratch

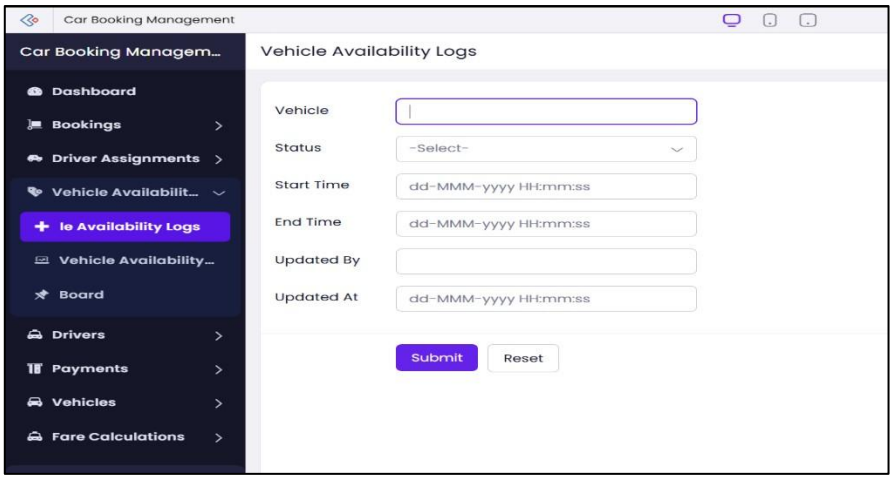


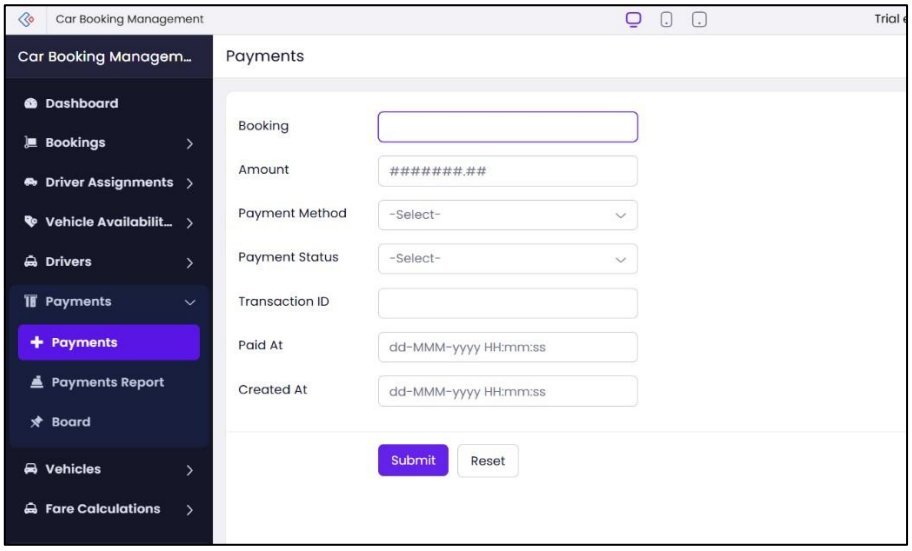
STEP 4: Enter Car Booking Reservation as the application name and click Create Application**.**



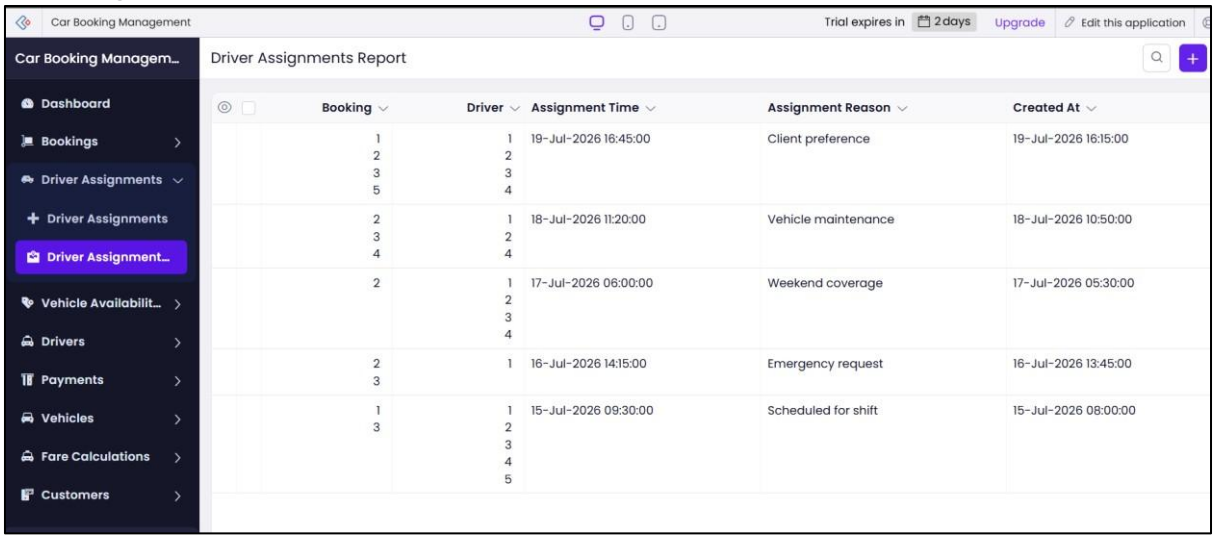
Step 5:Add fields: Customer Name, Pickup Location, Drop Location, Rental/Outstation, Package Type, Date, and Duration.

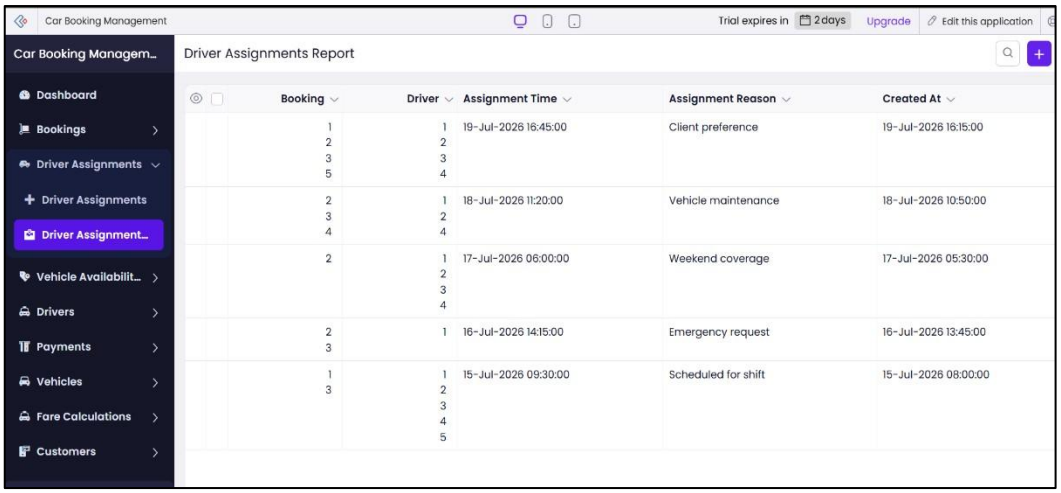




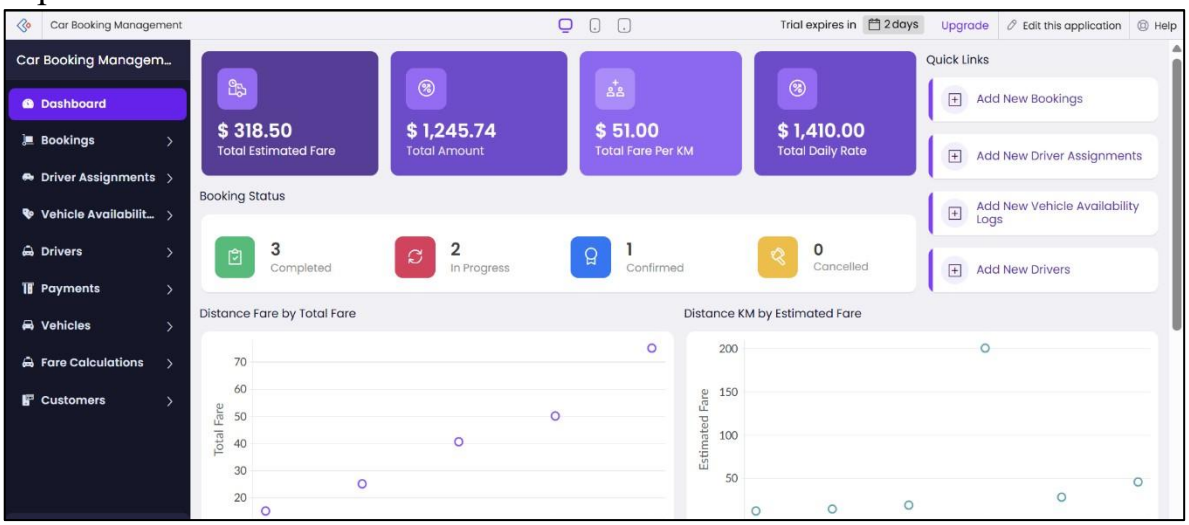


STEP 6: Save the form, enter sample booking records, and view them in the Car Booking Reservation.




Car Booking Management
Trial expires in 2 days
Upgrade
Edit this application
Car Booking Managem...
Driver Assignments Report
Dashboard
Bookings
Driver Assignments
Driver Assignments
Driver Assignment...
Vehicle Availabilit...
Drivers
Payments
Vehicles
Fare Calculations
Customers
Booking
Driver
Assignment Time
Assignment Reason
Created At
19-Jul-2026 16:45:00
Client preference
19-Jul-2026 16:15:00
18-Jul-2026 11:20:00
Vehicle maintenance
18-Jul-2026 10:50:00
17-Jul-2026 06:00:00
Weekend coverage
17-Jul-2026 05:30:00
16-Jul-2026 14:15:00
Emergency request
16-Jul-2026 13:45:00
15-Jul-2026 09:30:00
Scheduled for shift
15-Jul-2026 08:00:00

Step 7:


Car Booking Management
Trial expires in 2 days
Upgrade
Edit this application
Help
Car Booking Managem...
Dashboard
Bookings
Driver Assignments
Vehicle Availabilit...
Drivers
Payments
Vehicles
Fare Calculations
Customers
$ 318.50
Total Estimated Fare
$ 1,245.74
Total Amount
$ 51.00
Total Fare Per KM
$ 1,410.00
Total Daily Rate
Quick Links
Add New Bookings
Add New Driver Assignments
Add New Vehicle Availability Logs
Add New Drivers
Booking Status
3
Completed
2
In Progress
1
Confirmed
0
Cancelled
Distance Fare by Total Fare
Total Fare
70
60
50
40
30
20
Distance KM by Estimated Fare
Estimated Fare
200
150
100
50

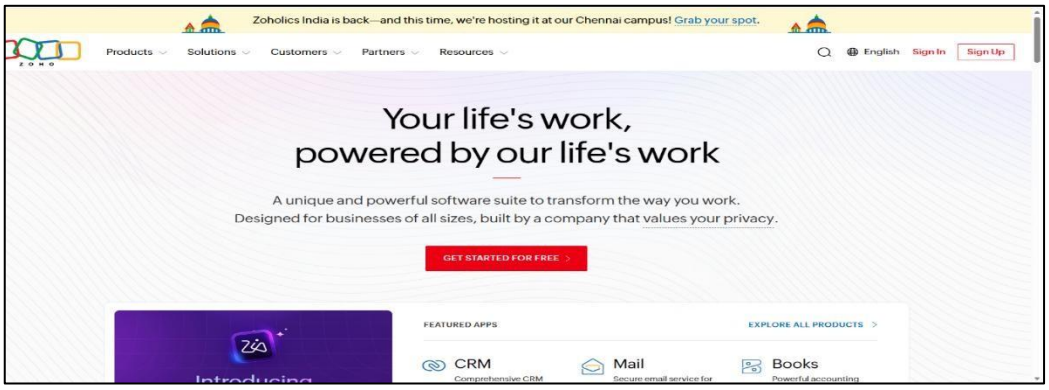
EXP NO 4: Library Book Reservation System

Aim:
To create a cloud-based Library Book Reservation System using Zoho Creator.

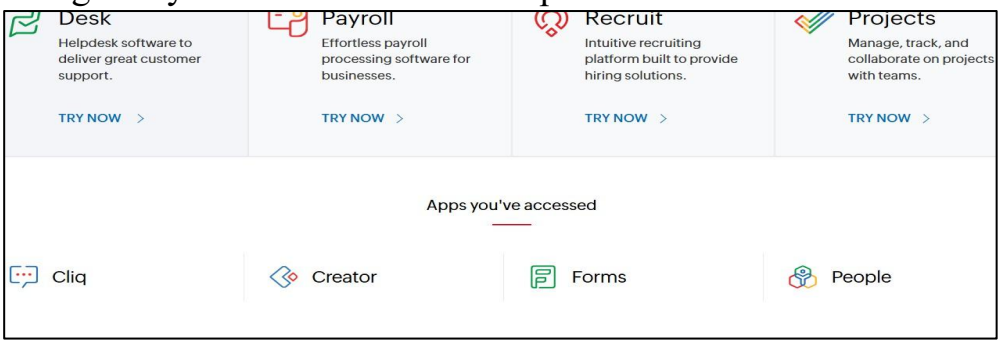
Steps:

1. Create a new application.
2. Create a Book Reservation form.
3. Add fields: Book Title, Author, Publication, Edition, Rack Number, Number of Copies, and Status.
4. Create a report to display available and reserved books.
5. Test the application with sample book records.

Implemented
Step 1: Go to zoho.com

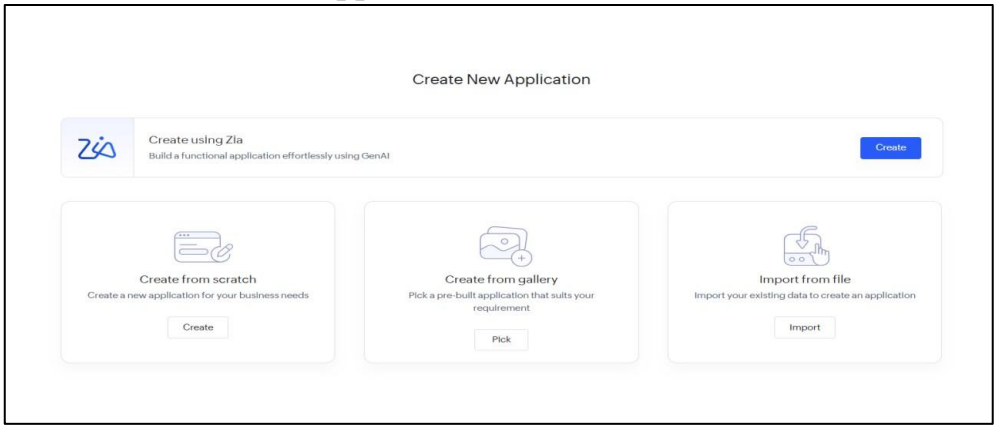


STEP 2: Login to your Zoho account and open Zoho Creator

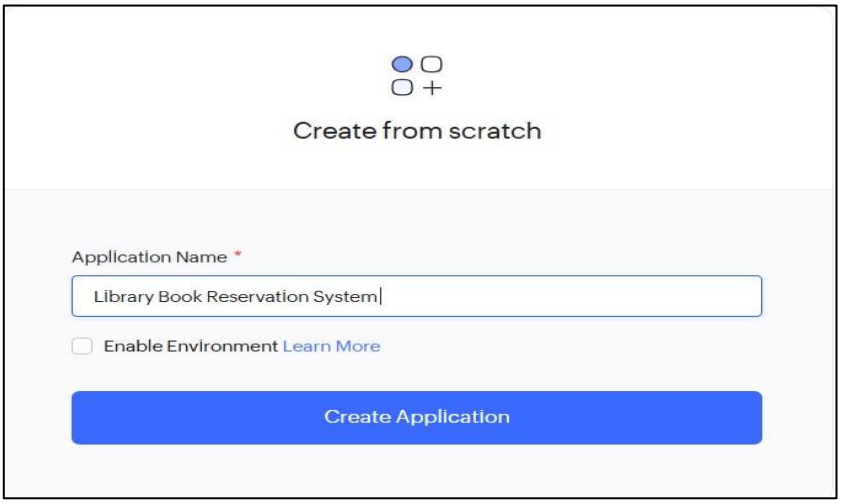


C

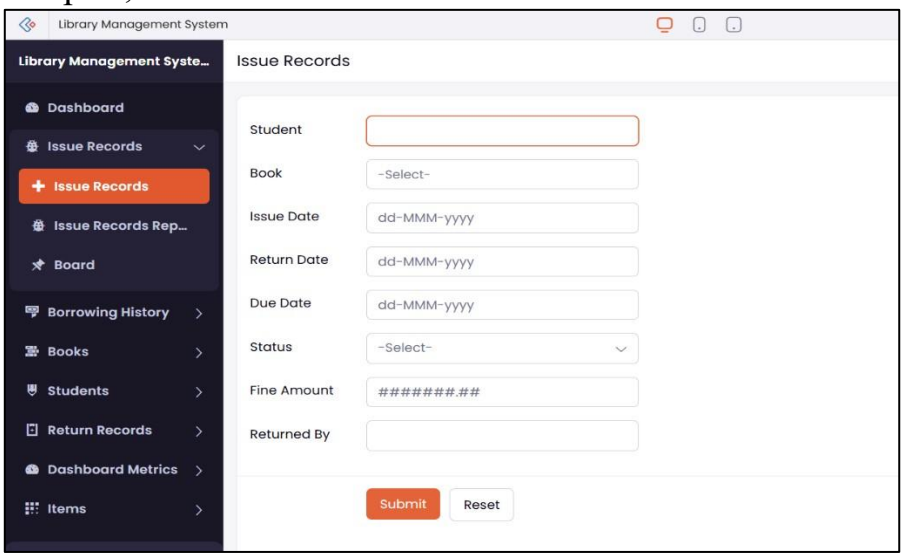
STEP 3: Click Create New Application and select Create from Scratch

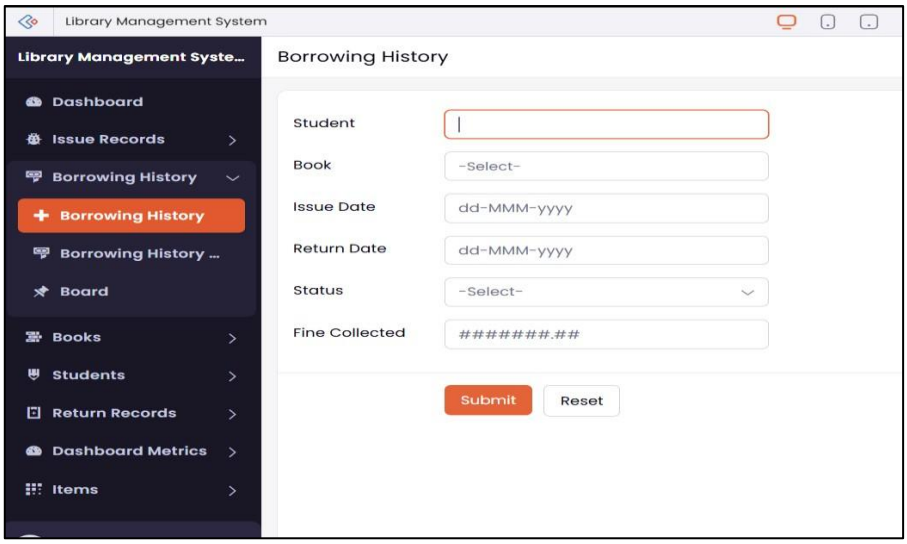


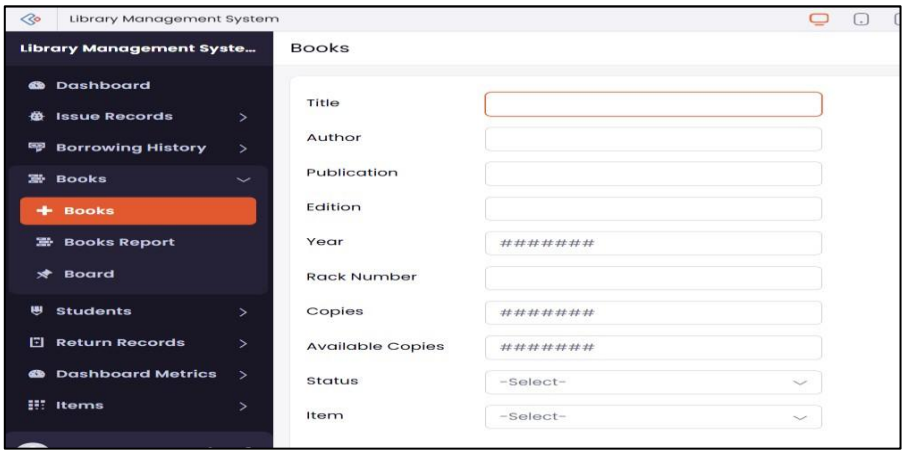
STEP 4: Enter Library Book Reservation System as the application name and click Create Application**.**

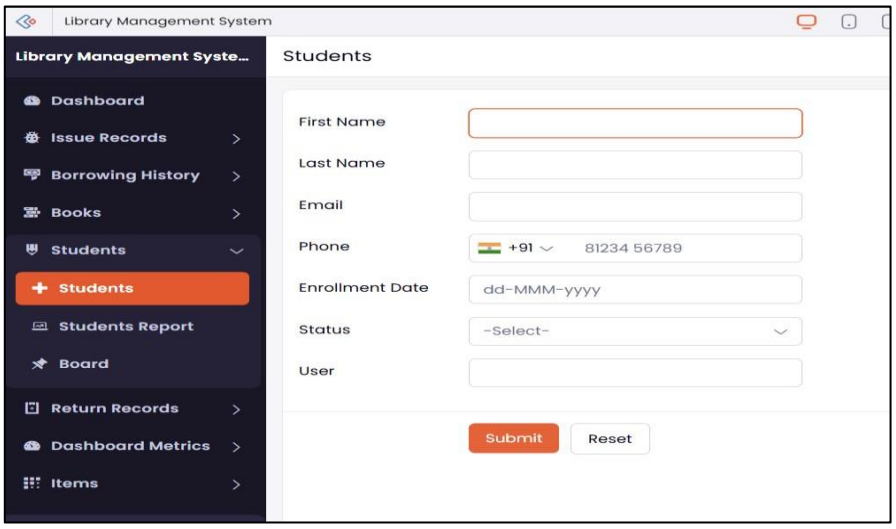


Step 5: Add fields: Book Title, Author, Publication, Edition, Rack Number, Number of Copies, and Status

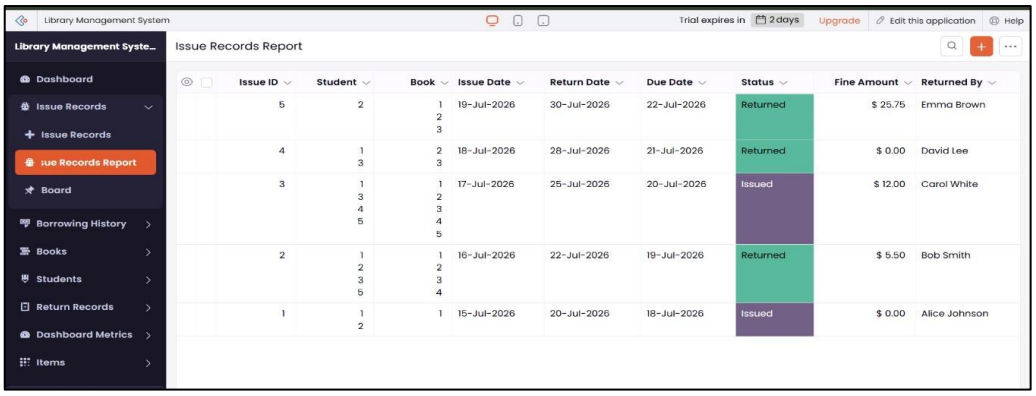


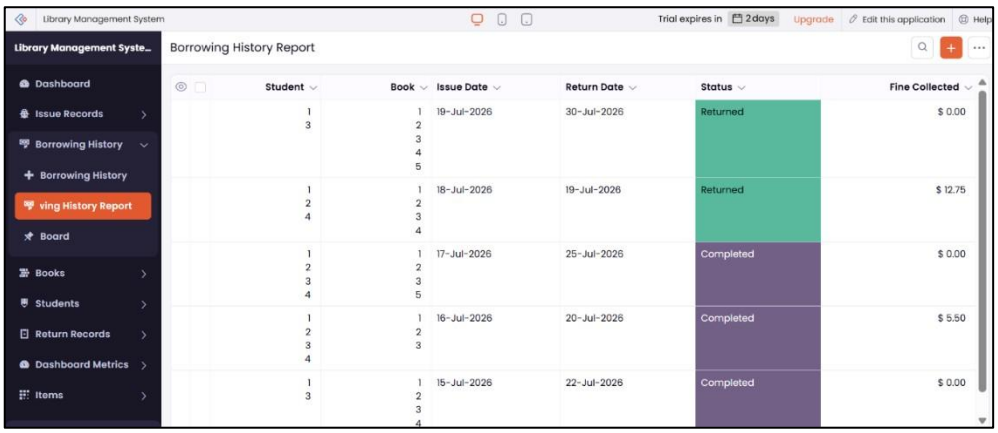


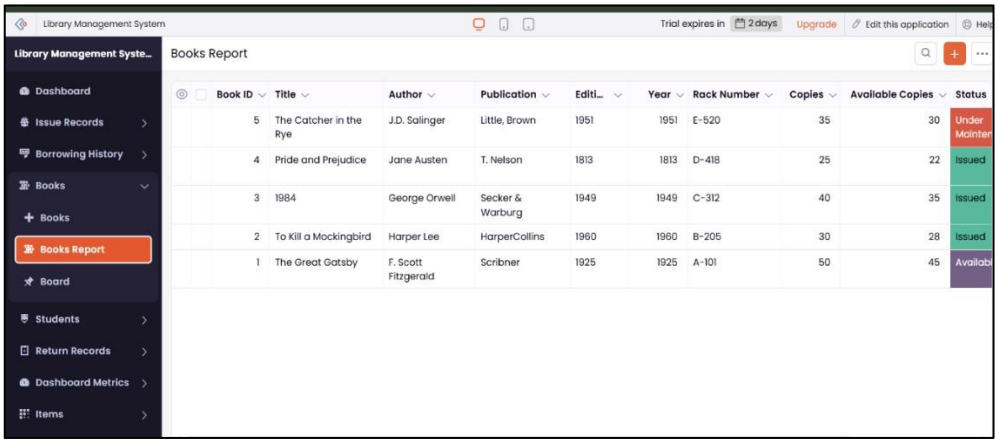




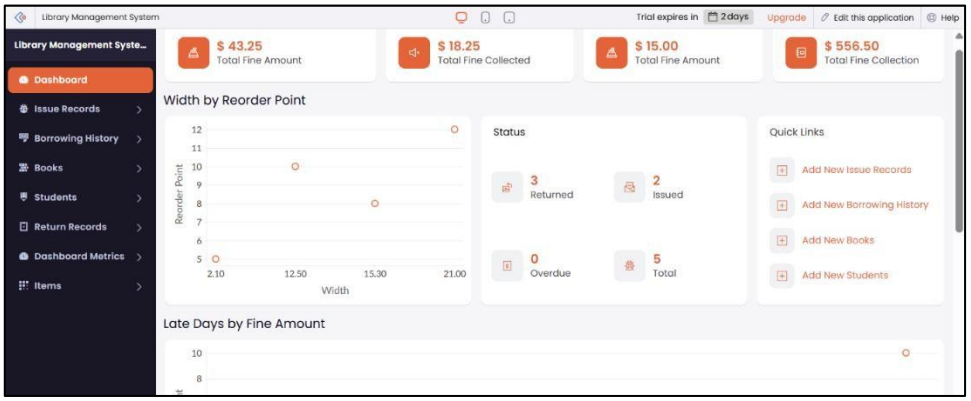
STEP 6: Save the form, enter sample booking records, and view them in the Library Book Reservation System.







Step 7:Final DasbBoard



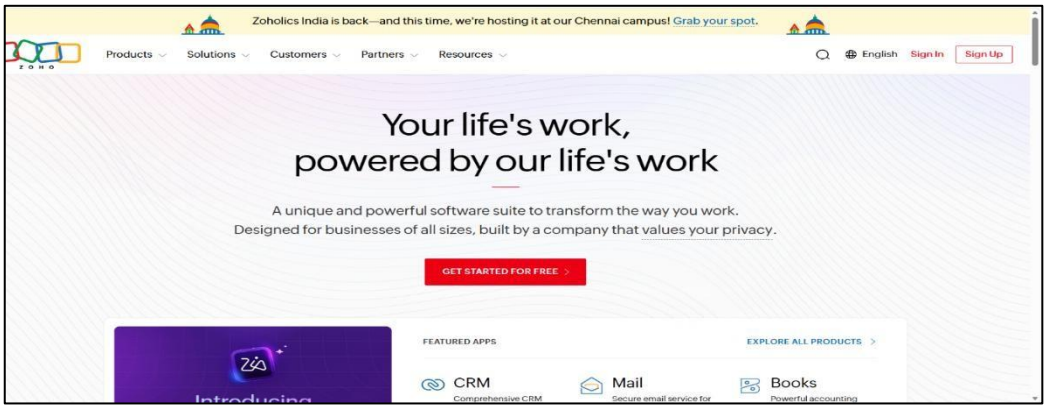
EXP NO 5: Mark Sheet Processing System

Aim:
To develop a cloud-based Mark Sheet Processing System using Zoho Creator.

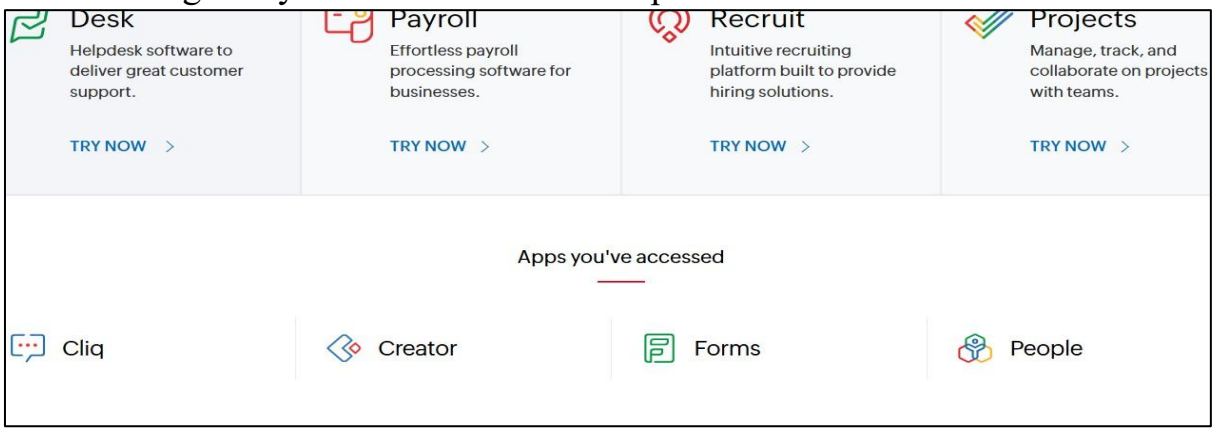
Steps:

1. Create a new application.
2. Create a Student Mark Sheet form.
3. Add fields: Student Name, Register Number, Subject Marks, Total, Average, Percentage, and Rank.
4. Use formulas to calculate Total, Average, and Percentage.
5. Save the records and verify the generated mark sheet.

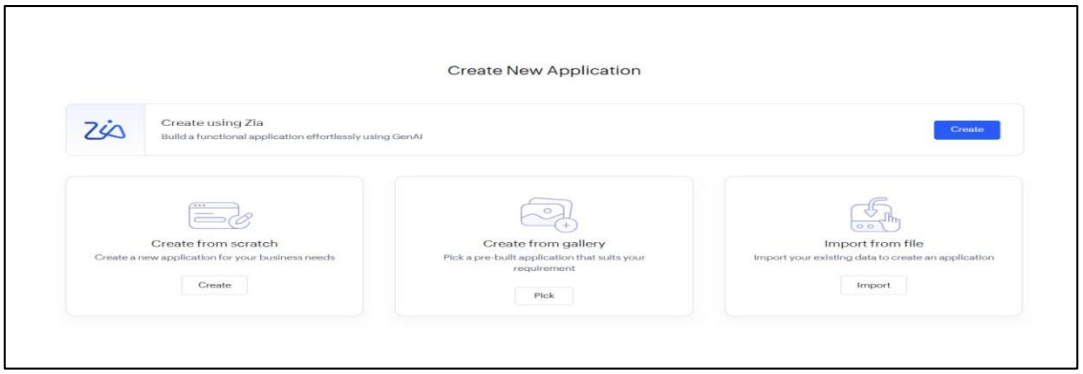
Implemented
Step 1: Go to zoho.com



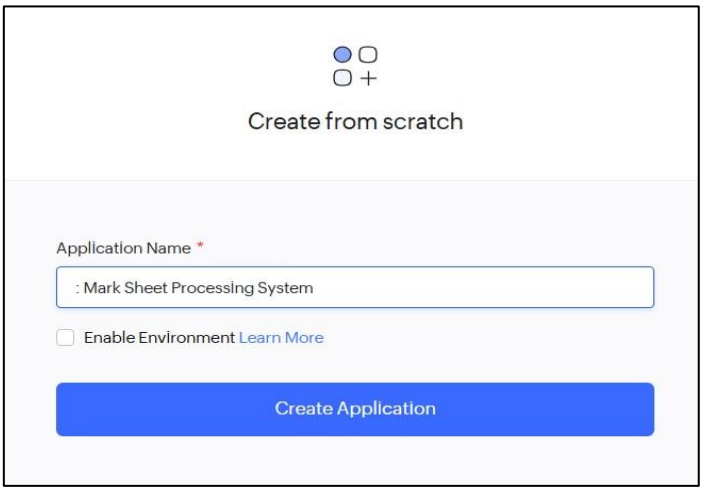
STEP 2: Login to your Zoho account and open Zoho Creator



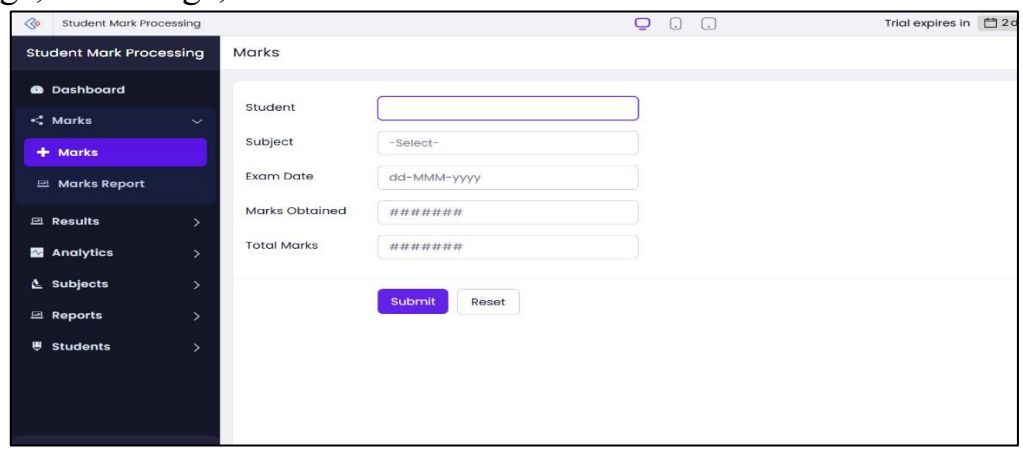
STEP 3: Click Create New Application and select Create from Scratch

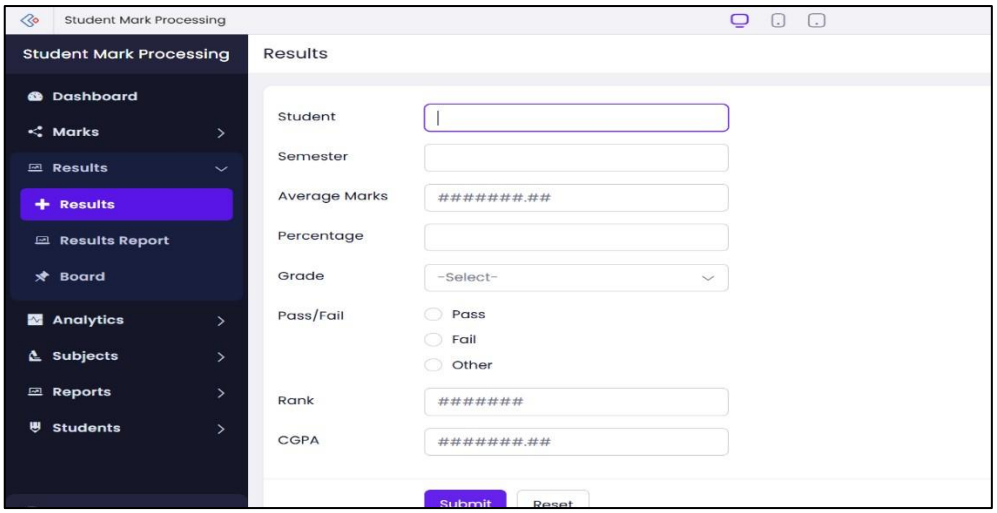


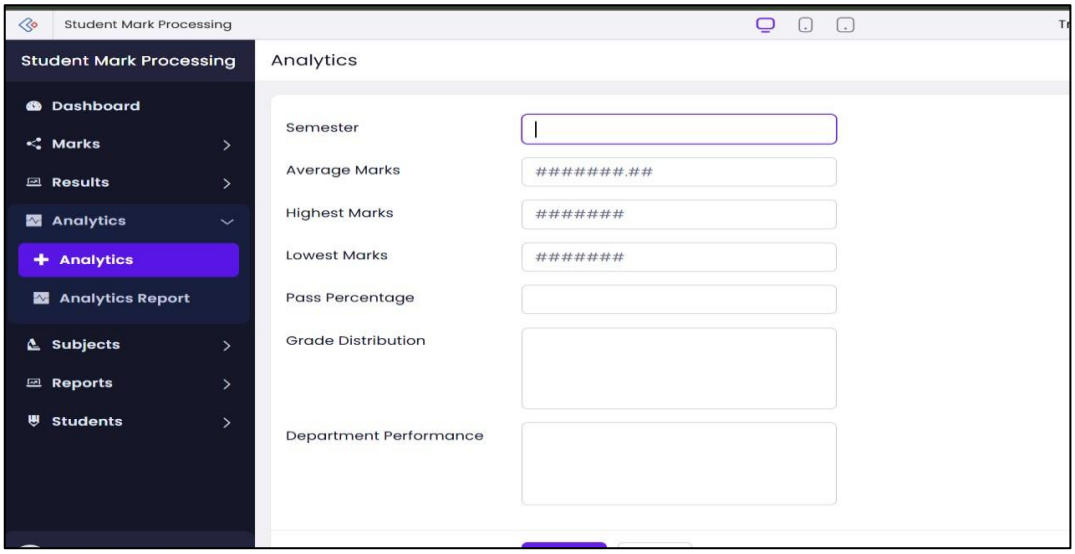
STEP 4: Enter Mark Sheet Processing System as the application name and click Create Application**.**



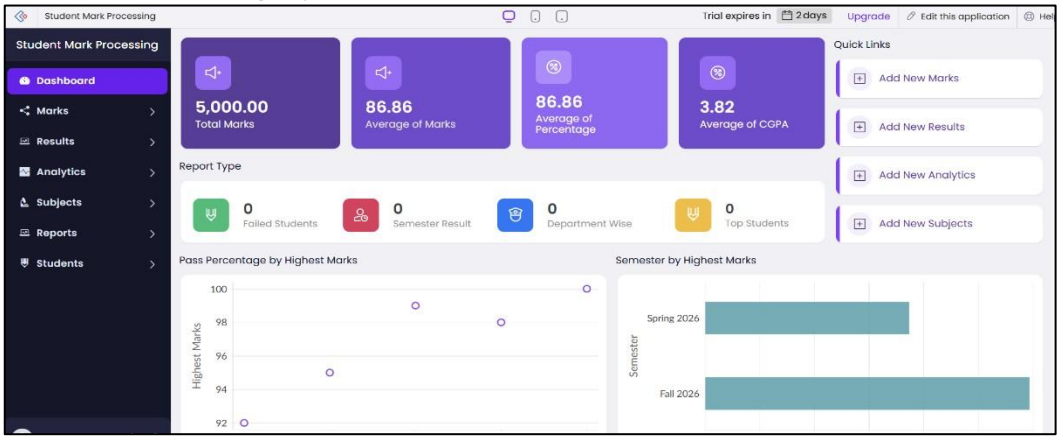
Step 5: Add fields: Student Name, Register Number, Subject Marks, Total, Average, Percentage, and Rank.







STEP 6: Save the form, enter sample booking records, and view them in the Mark Sheet Processing System.



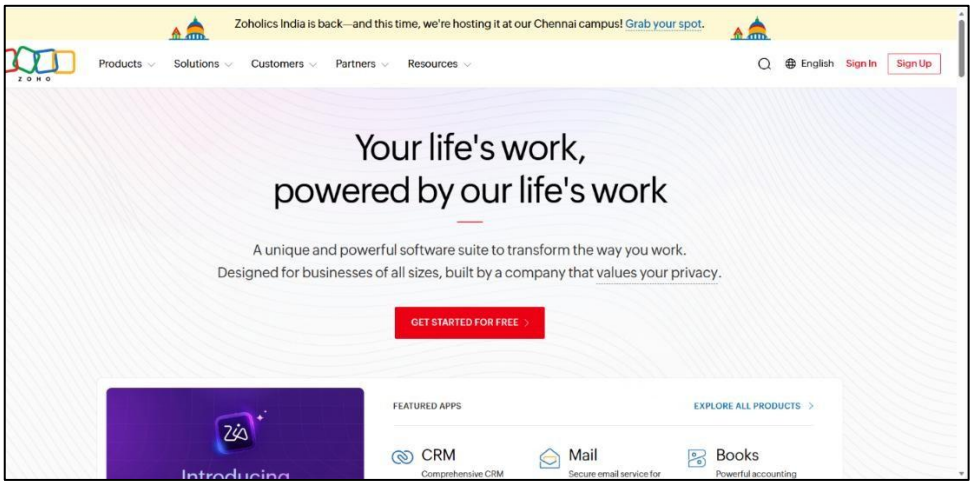
EXP NO 6: Payroll Processing System

Aim:
To create a cloud-based Payroll Processing System using Zoho Creator.

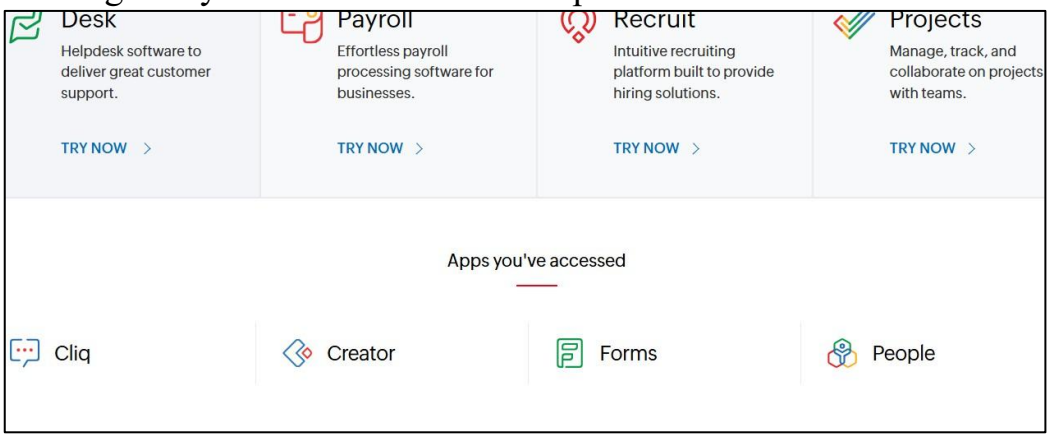
Steps:

1. Create a new application.
2. Create an Employee Payroll form.
3. Add fields: Employee Name, Experience, Basic Pay, HRA, DA, TA, Gross Pay, and Net Pay.
4. Use formulas to calculate Gross Pay and Net Pay.
5. Save employee details and verify the payroll report**.**

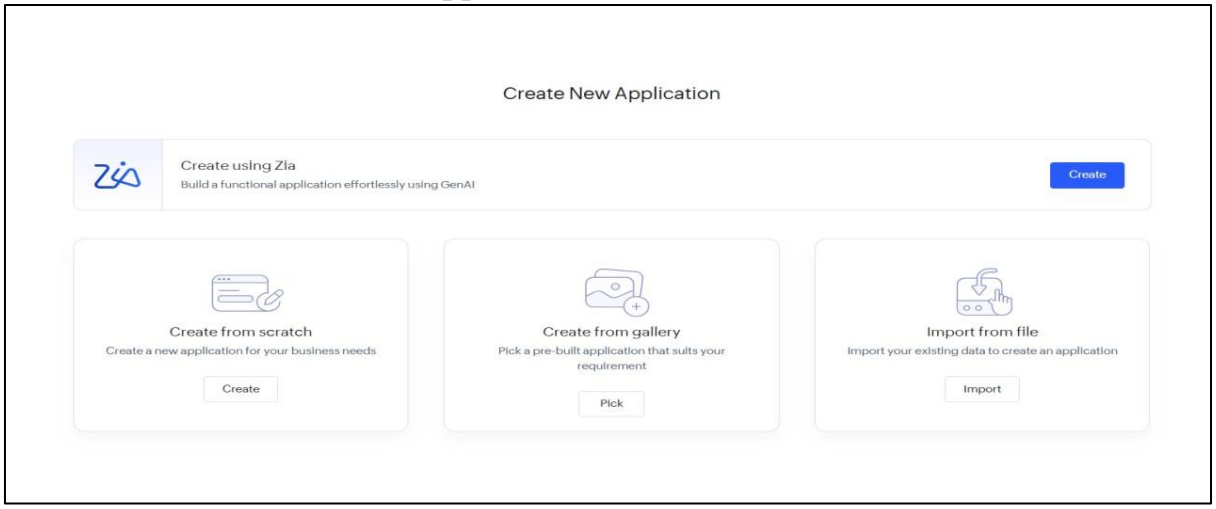
Implemented:
Step 1: Go to zoho.com



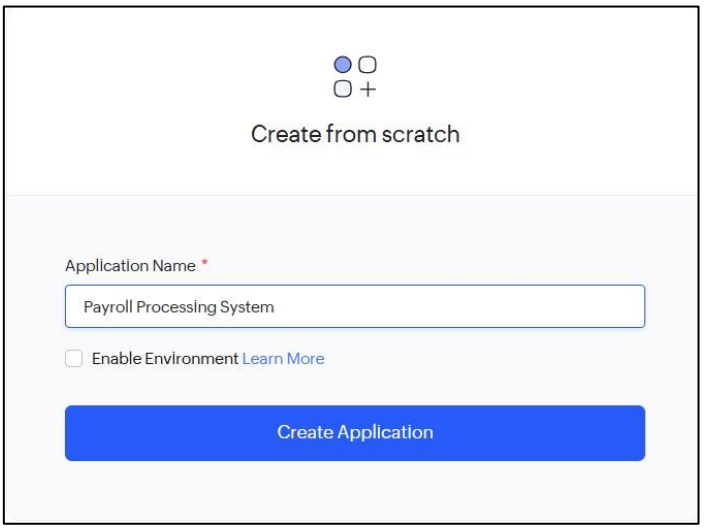
STEP 2: Login to your Zoho account and open Zoho Creator



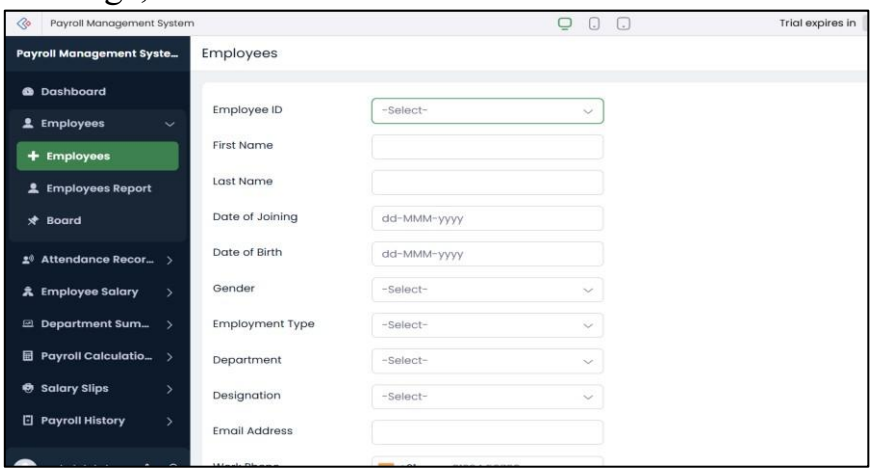
STEP 3: Click Create New Application and select Create from Scratch

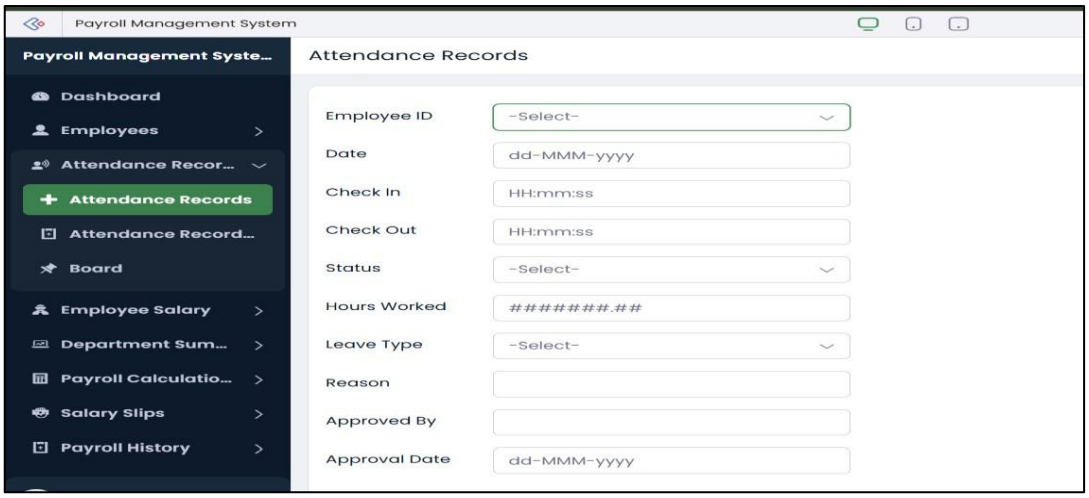


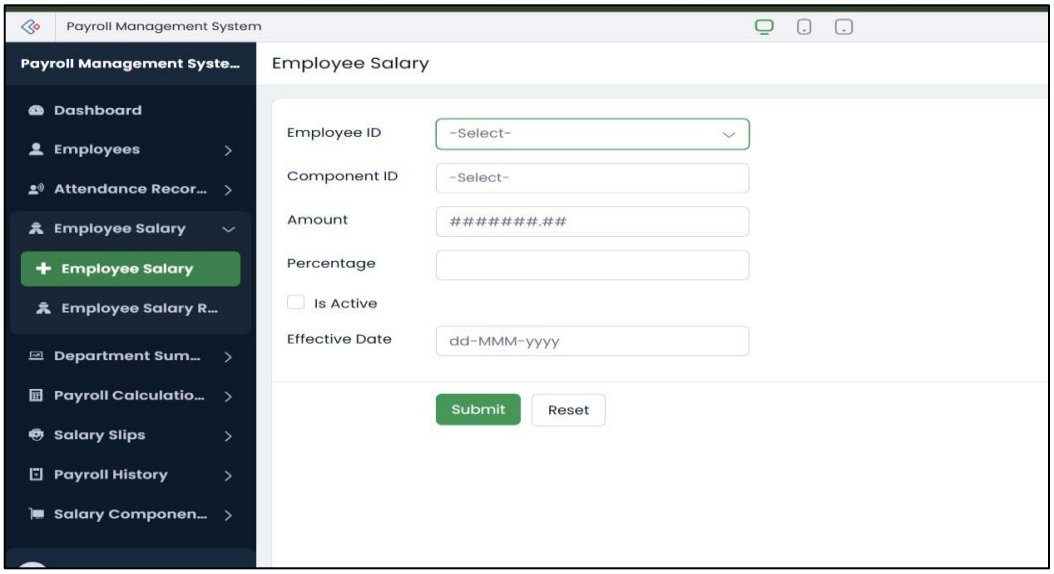
STEP 4: Enter Payroll Processing System as the application name and click Create Application**.**

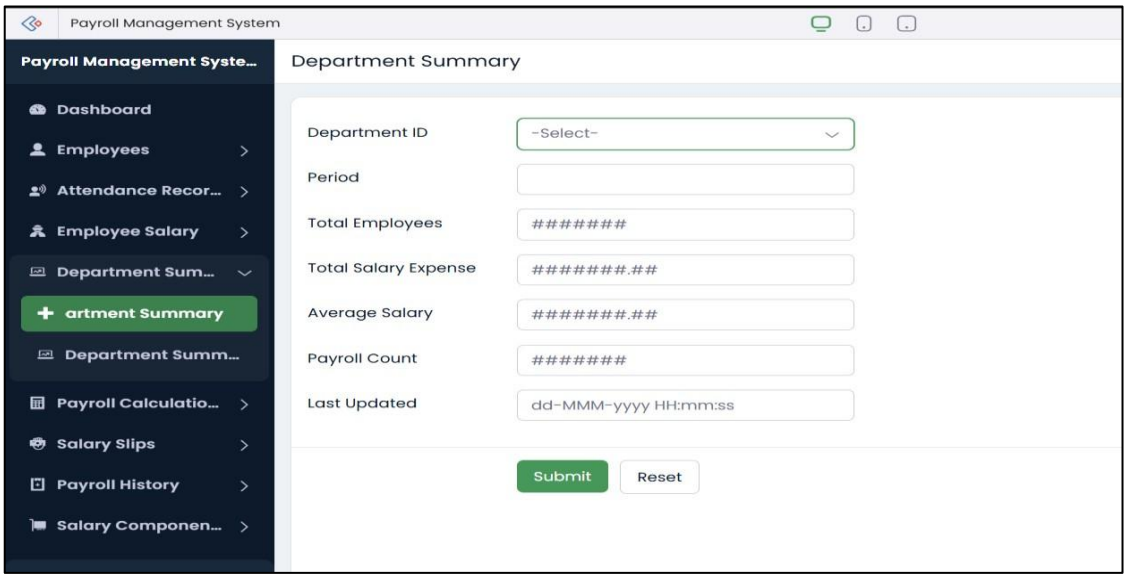


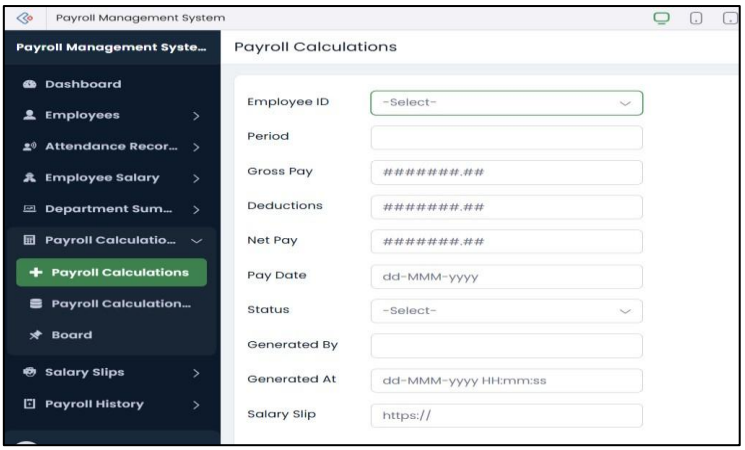
Step 5: Add fields: Student Name, Register Number, Subject Marks, Total, Average, Percentage, and Rank.

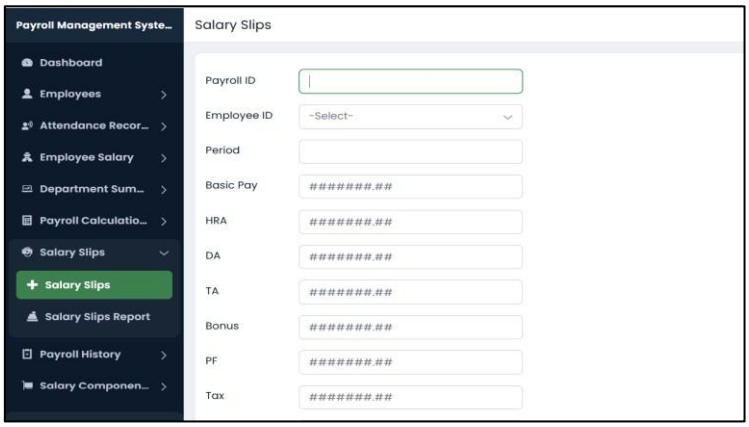


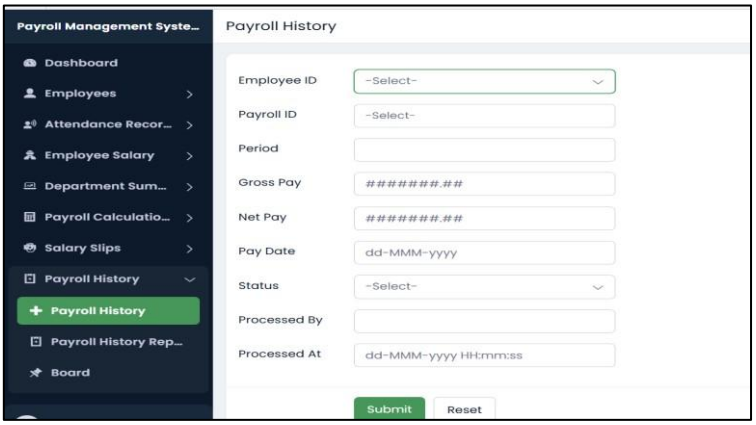

Payroll Management System
Payroll Management Syste...
Attendance Records
Dashboard
Employees
Attendance Recor...
Attendance Records
Attendance Record...
Board
Employee Salary
Department Sum...
Payroll Calculatio...
Salary Slips
Payroll History
Employee ID
-Select-
Date
dd-MMM-yyyy
Check In
HH:mm:ss
Check Out
HH:mm:ss
Status
-Select-
Hours Worked
#######.##
Leave Type
-Select-
Reason
Approved By
Approval Date
dd-MMM-yyyy


Payroll Management System
Payroll Management Syste...
Employee Salary
Dashboard
Employees
Attendance Recor...
Employee Salary
Employee Salary
Employee Salary R...
Department Sum...
Payroll Calculatio...
Salary Slips
Payroll History
Salary Componen...
Employee ID
-Select-
Component ID
-Select-
Amount
#######.##
Percentage
Is Active
Effective Date
dd-MMM-yyyy
Submit
Reset

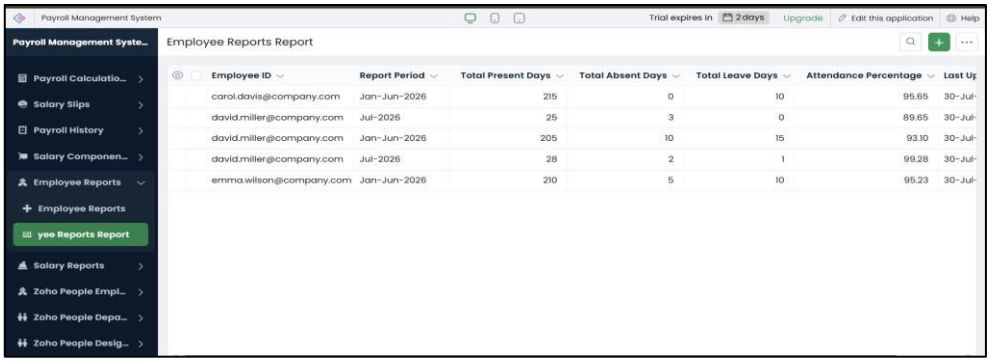

Payroll Management System
Payroll Management Syste...
Department Summary
Dashboard
Employees
Attendance Recor...
Employee Salary
Department Sum...
artment Summary
Department Summ...
Payroll Calculatio...
Salary Slips
Payroll History
Salary Componen...
Department ID
-Select-
Period
Total Employees
#######
Total Salary Expense
#######.##
Average Salary
#######.##
Payroll Count
#######
Last Updated
dd-MMM-yyyy HH:mm:ss
Submit
Reset

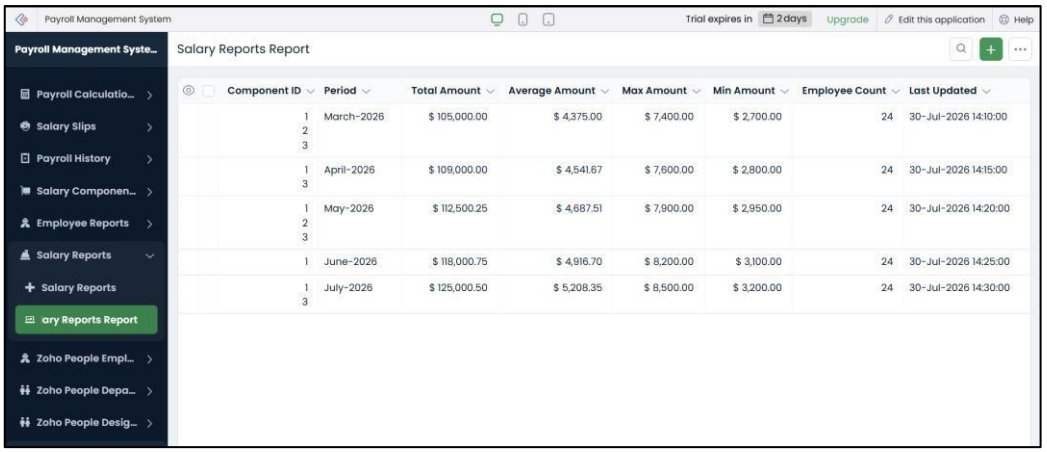




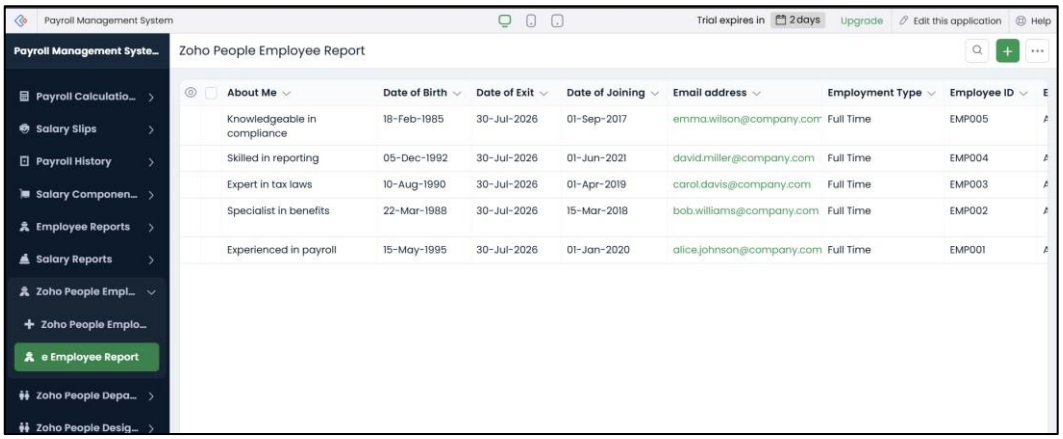


STEP 6: Save the form Payroll Processing, enter sample booking records, and view them in the System.



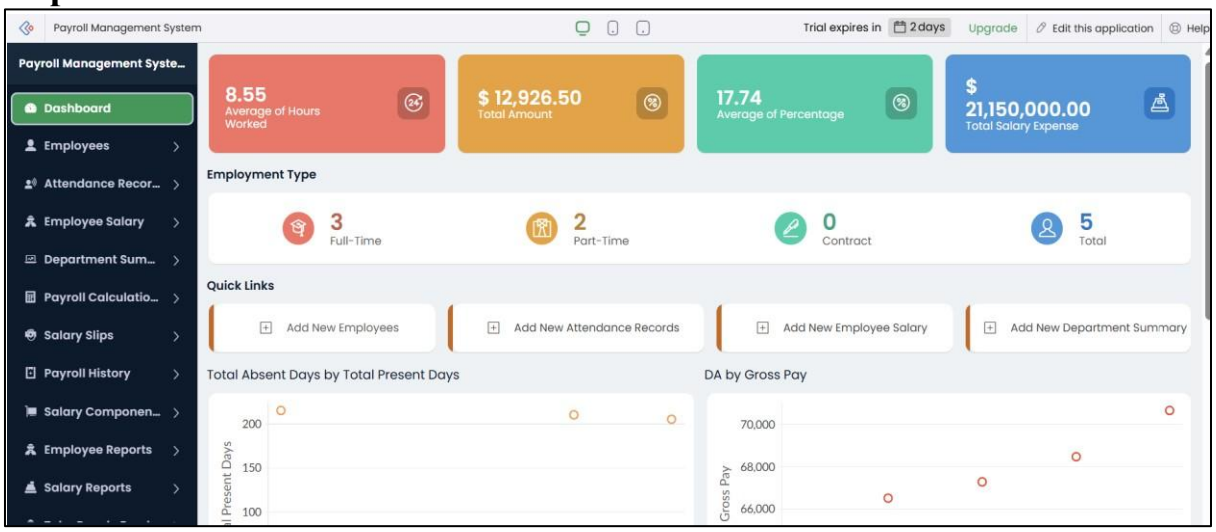


Component ID	Period	Total Amount	Average Amount	Max Amount	Min Amount	Employee Count	Last Updated
1 2 3	March-2026	$ 105,000.00	$ 4,375.00	$ 7,400.00	$ 2,700.00	24	30-Jul-2026 14:10:00
1 3	April-2026	$ 109,000.00	$ 4,541.67	$ 7,600.00	$ 2,800.00	24	30-Jul-2026 14:15:00
1 2 3	May-2026	$ 112,500.25	$ 4,687.51	$ 7,900.00	$ 2,950.00	24	30-Jul-2026 14:20:00
1	June-2026	$ 118,000.75	$ 4,916.70	$ 8,200.00	$ 3,100.00	24	30-Jul-2026 14:25:00
1 3	July-2026	$ 125,000.50	$ 5,208.35	$ 8,500.00	$ 3,200.00	24	30-Jul-2026 14:30:00



About Me	Date of Birth	Date of Exit	Date of Joining	Email address	Employment Type	Employee ID
Knowledgeable in compliance	18-Feb-1985	30-Jul-2026	01-Sep-2017	emma.wilson@company.com	Full Time	EMP005
Skilled in reporting	05-Dec-1992	30-Jul-2026	01-Jun-2021	david.miller@company.com	Full Time	EMP004
Expert in tax laws	10-Aug-1990	30-Jul-2026	01-Apr-2019	carol.davis@company.com	Full Time	EMP003
Specialist in benefits	22-Mar-1988	30-Jul-2026	15-Mar-2018	bob.williams@company.com	Full Time	EMP002
Experienced in payroll	15-May-1995	30-Jul-2026	01-Jan-2020	alice.johnson@company.com	Full Time	EMP001

Step 7:Final Dashboard



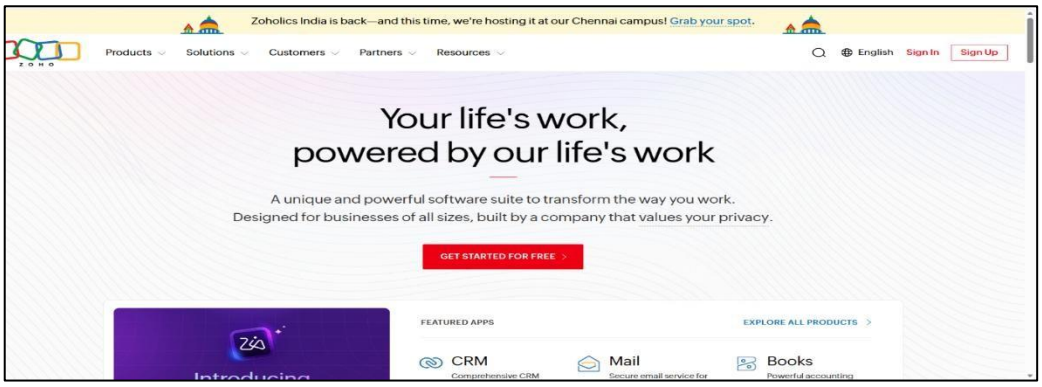
EXP NO 7: Student Attendance System

Aim:
To develop a cloud-based Student Attendance System using Zoho Creator.

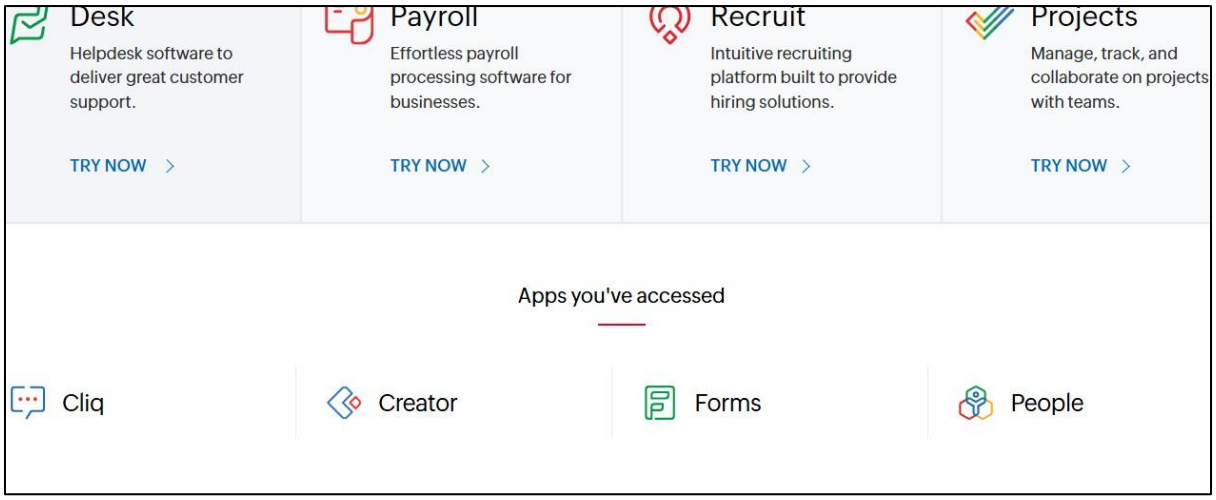
Steps:

1. Create a new application.
2. Create a Student Attendance form.
3. Add fields: Student Name, Course, Date, Present/Absent, Attendance Percentage, and OD Request.
4. Create reports to display attendance records.
5. Test the application by entering attendance details.

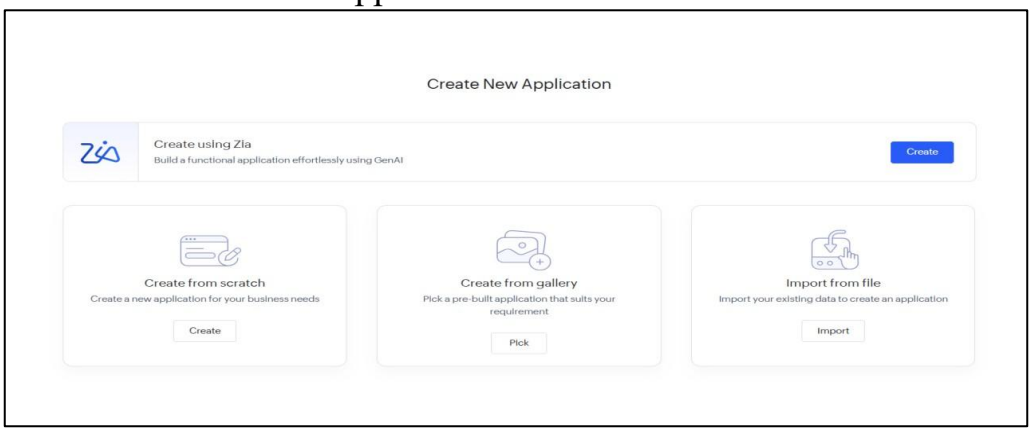
Implemented:
Step 1: Go to zoho.com



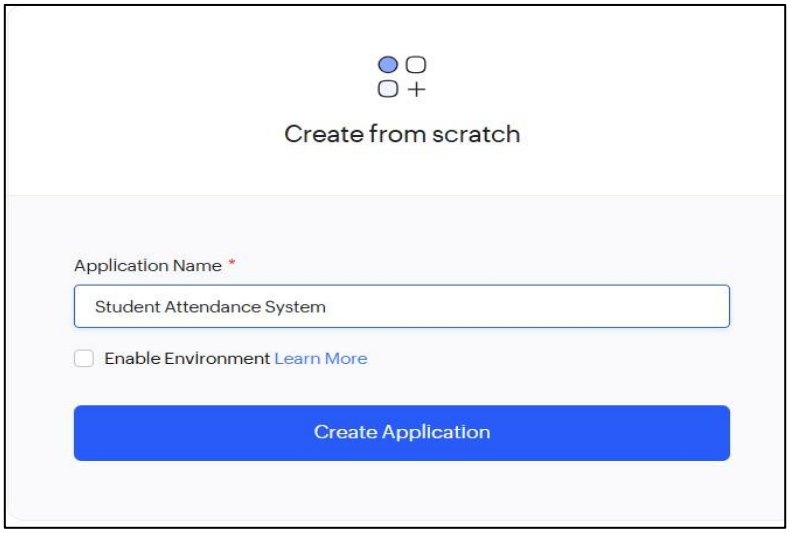
STEP 2: Login to your Zoho account and open Zoho Creator



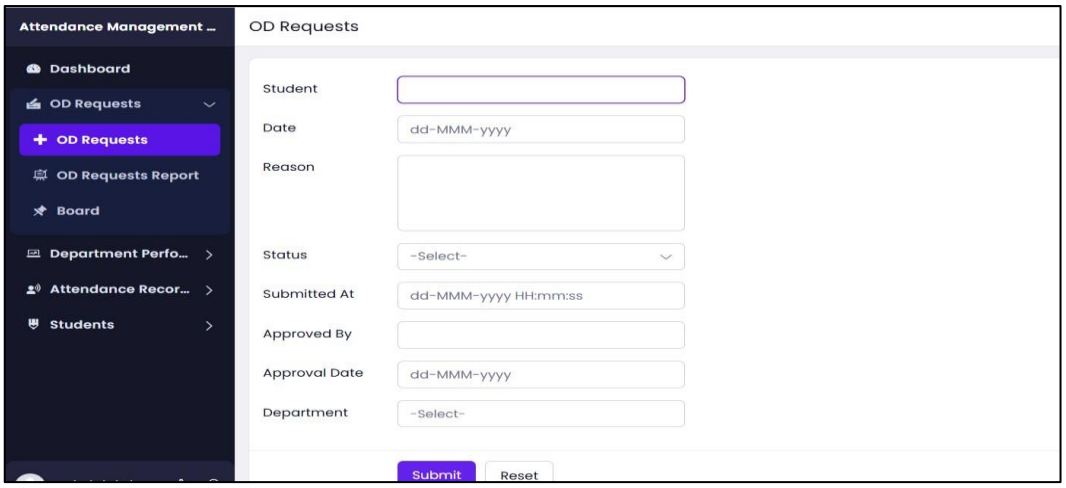
STEP 3: Click Create New Application and select Create from Scratch

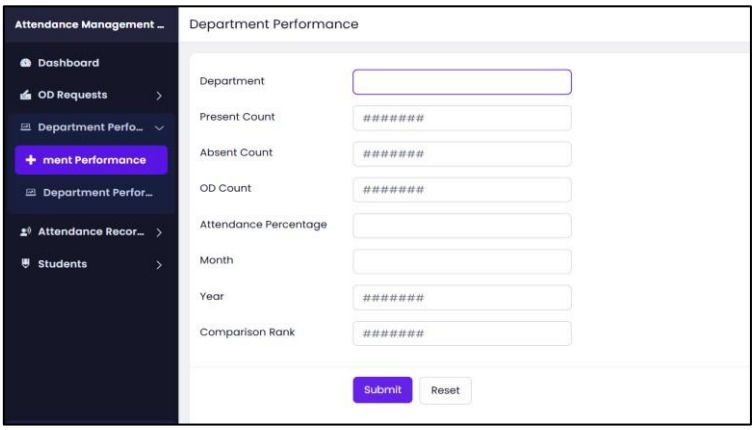


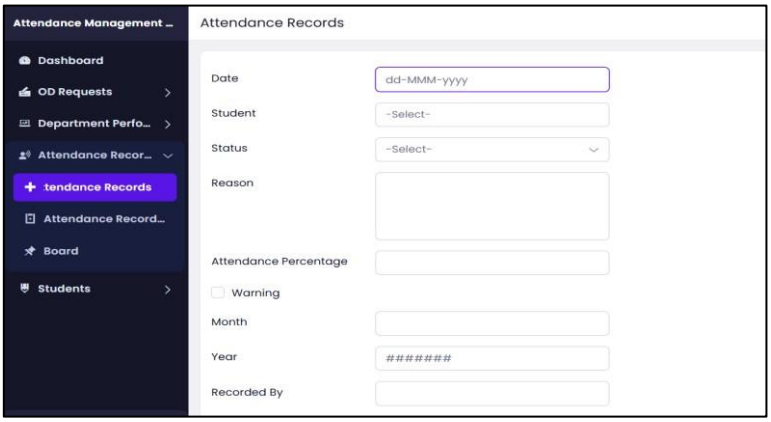
STEP 4: Enter Student Attendance System as the application name and click Create Application**.**

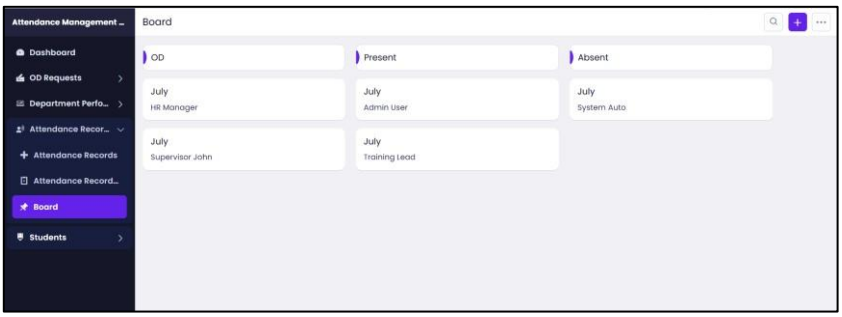


Step 5: Add fields: Student Name, Course, Date, Present/Absent, Attendance Percentage, and OD Request.

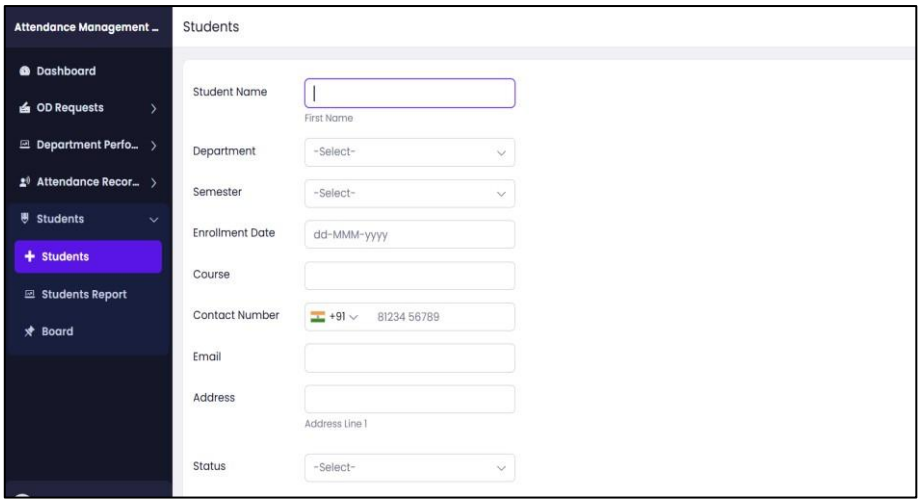


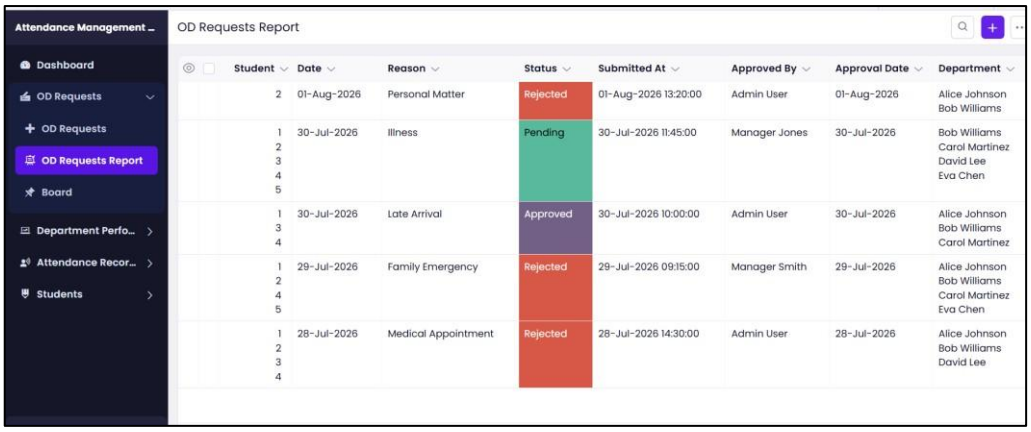




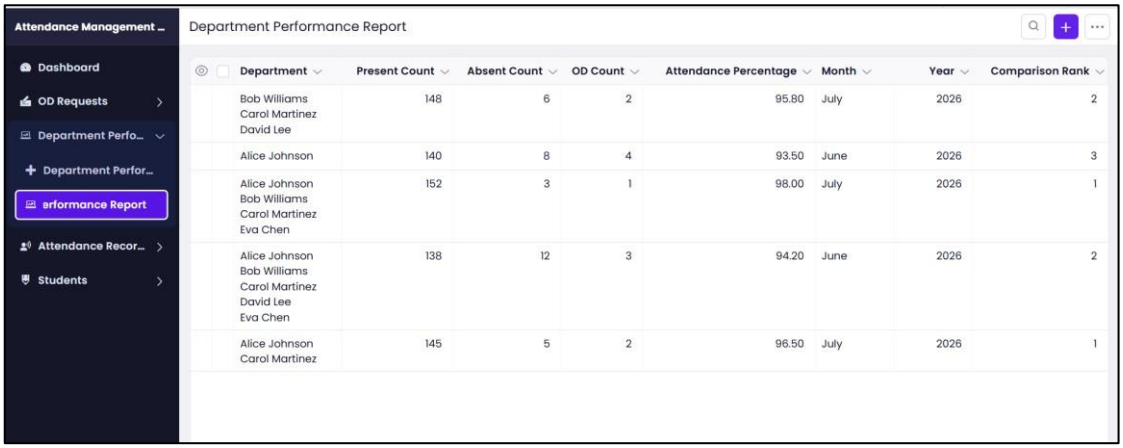


STEP 6: Save the form Student Attendance System, enter sample booking records, and view them in the System.


Attendance Management ...
Students
Dashboard
OD Requests
Department Perfo...
Attendance Recor...
Students
Students
Students Report
Board
Student Name
First Name
Department
-Select-
Semester
-Select-
Enrollment Date
dd-MMM-yyyy
Course
Contact Number
+91
81234 56789
Email
Address
Address Line 1
Status
-Select-



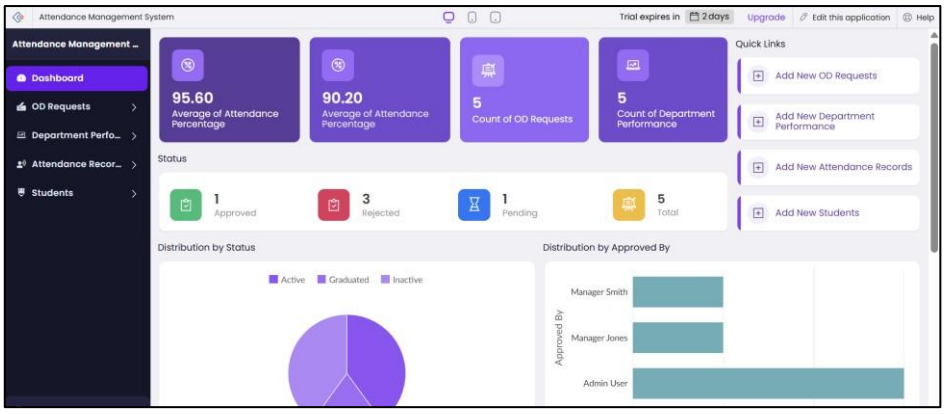
Student	Date	Reason	Status	Submitted At	Approved By	Approval Date	Department
2	01-Aug-2026	Personal Matter	Rejected	01-Aug-2026 13:20:00	Admin User	01-Aug-2026	Alice Johnson Bob Williams
1 2 3 4 5	30-Jul-2026	Illness	Pending	30-Jul-2026 11:45:00	Manager Jones	30-Jul-2026	Bob Williams Carol Martinez David Lee Eva Chen
1 3 4	30-Jul-2026	Late Arrival	Approved	30-Jul-2026 10:00:00	Admin User	30-Jul-2026	Alice Johnson Bob Williams Carol Martinez
1 2 4 5	29-Jul-2026	Family Emergency	Rejected	29-Jul-2026 09:15:00	Manager Smith	29-Jul-2026	Alice Johnson Bob Williams Carol Martinez Eva Chen
1 2 3 4	28-Jul-2026	Medical Appointment	Rejected	28-Jul-2026 14:30:00	Admin User	28-Jul-2026	Alice Johnson Bob Williams David Lee



Department	Present Count	Absent Count	OD Count	Attendance Percentage	Month	Year	Comparison Rank
Bob Williams Carol Martinez David Lee	148	6	2	95.80	July	2026	2
Alice Johnson	140	8	4	93.50	June	2026	3
Alice Johnson Bob Williams Carol Martinez Eva Chen	152	3	1	98.00	July	2026	1
Alice Johnson Bob Williams Carol Martinez David Lee Eva Chen	138	12	3	94.20	June	2026	2
Alice Johnson Carol Martinez	145	5	2	96.50	July	2026	1

Date	Student	Status	Reason	Attendance Percentage	Warning	Month	Year	Recorded By
30-Jul-2026	1 2 3 4 5	Present	Training session	92.30	false	July	2026	Training Lead
30-Jul-2026	1 2 3	OD	Unexcused absence	75.00	true	July	2026	Supervisor John
30-Jul-2026	1	Absent	Early leave	100.00	false	July	2026	System Auto
30-Jul-2026	1	OD	Medical emergency	88.20	true	July	2026	HR Manager
30-Jul-2026	1 2 3 5	Present	Late arrival	95.50	false	July	2026	Admin User

Step 7: Final Dash board



EXP NO 8: Hospital Management

Aim:

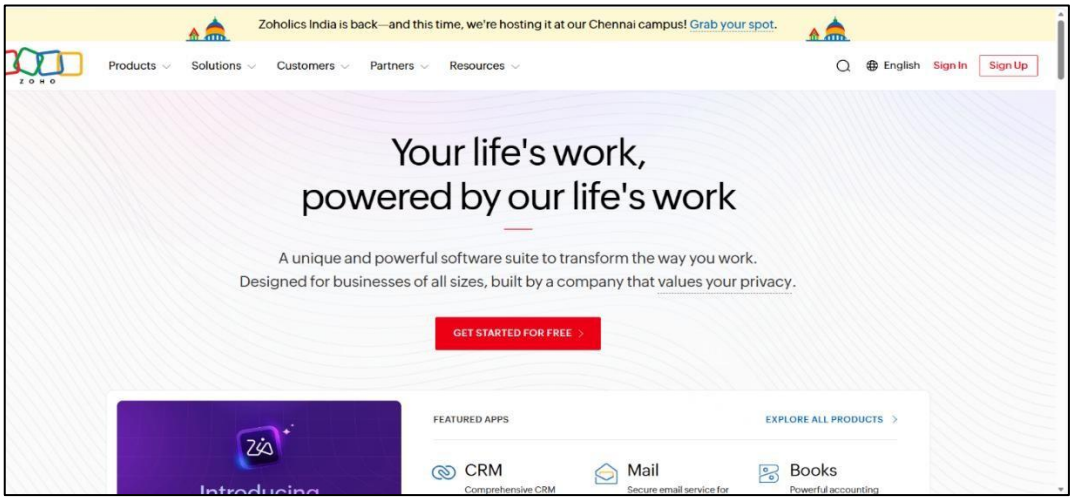
To develop a cloud-based Hospital Management using Zoho Creator.

Steps:

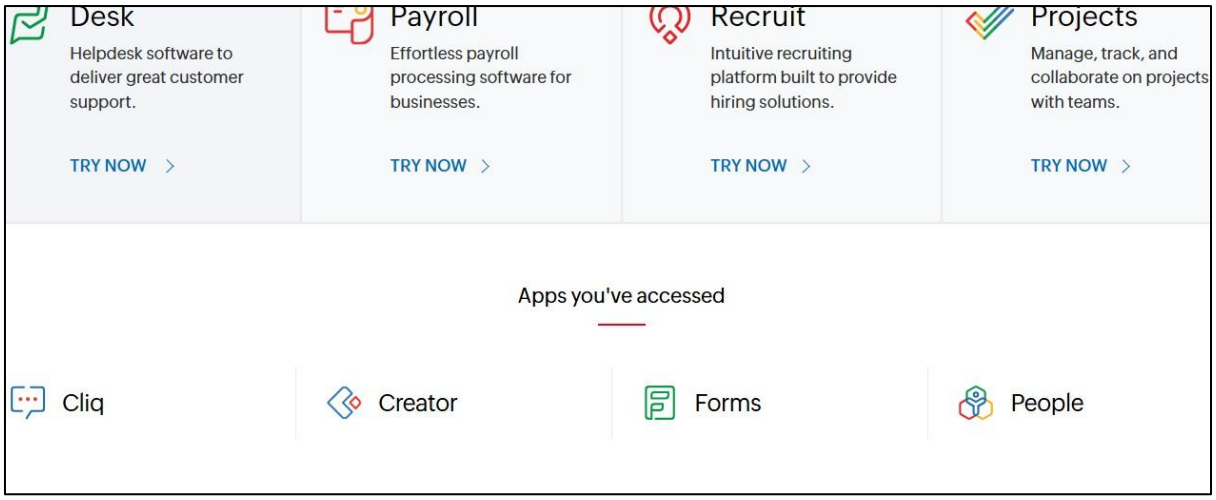
1. Create a new application.
2. Create a Hospital Management System
3. Add fields: Appointment Billing ,Patient ,Doctor
4. Create reports to display all above details
5. Test the application by entering attendance details.

Implemented:

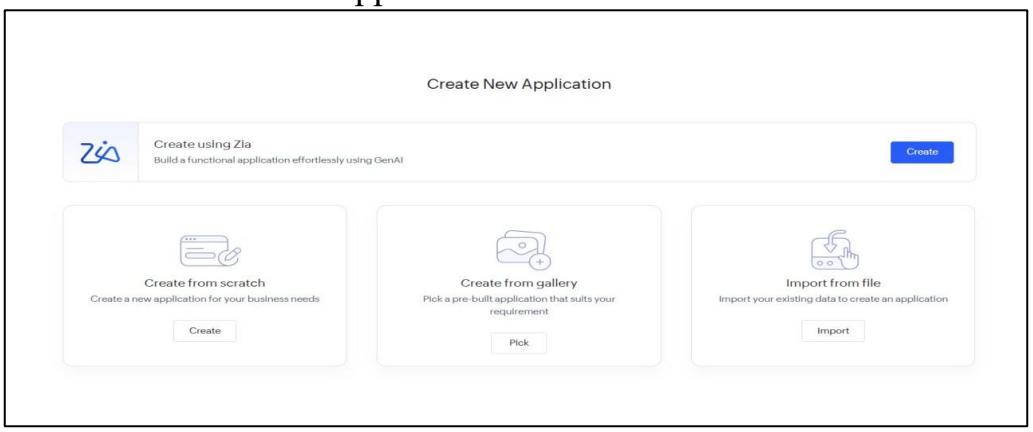
Step 1: Go to zoho.com



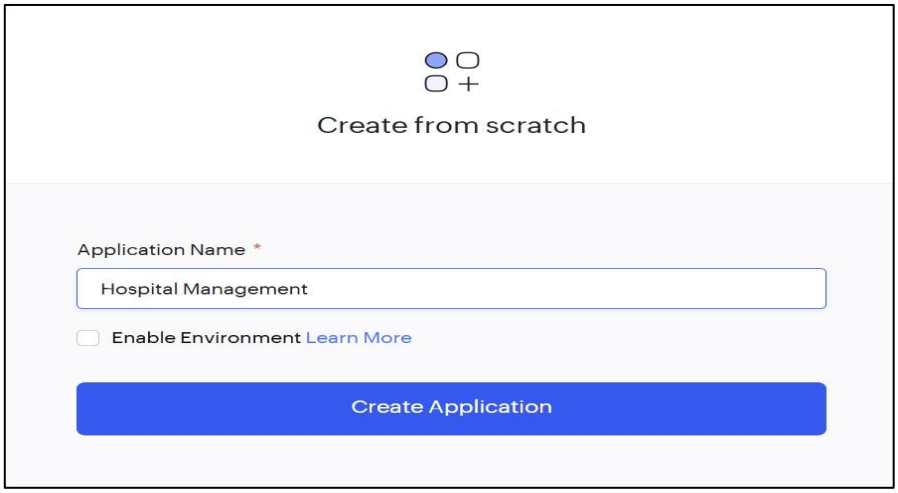
STEP 2: Login to your Zoho account and open Zoho Creator



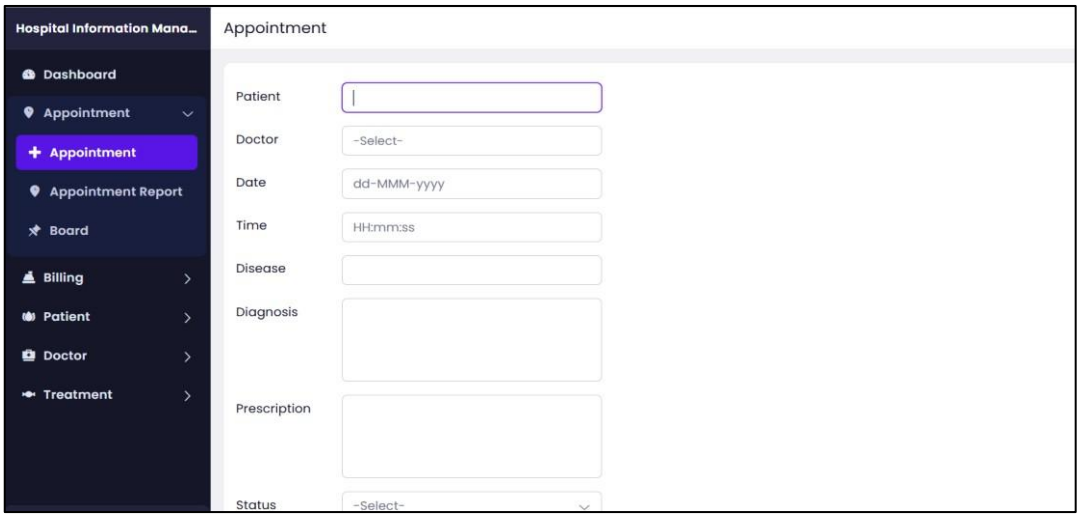
STEP 3: Click Create New Application and select Create from Scratch

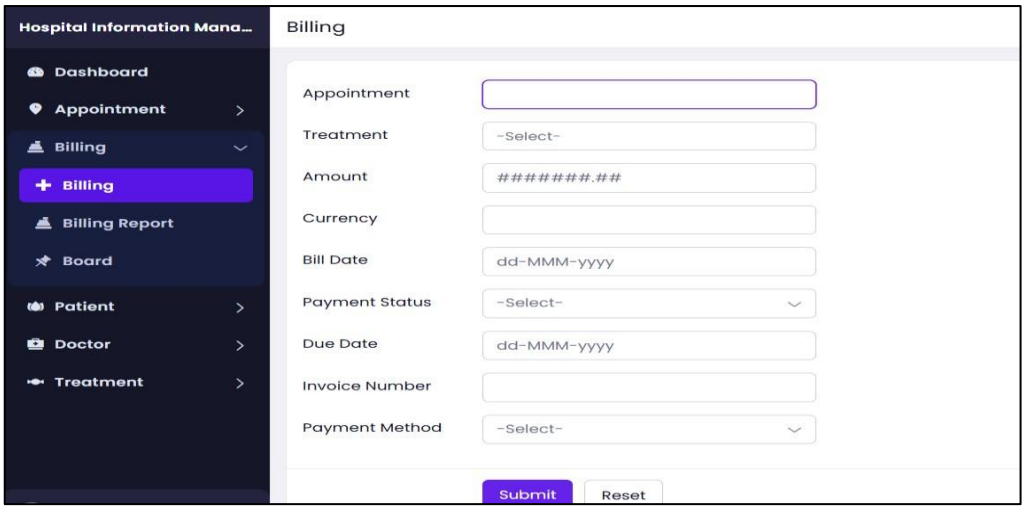


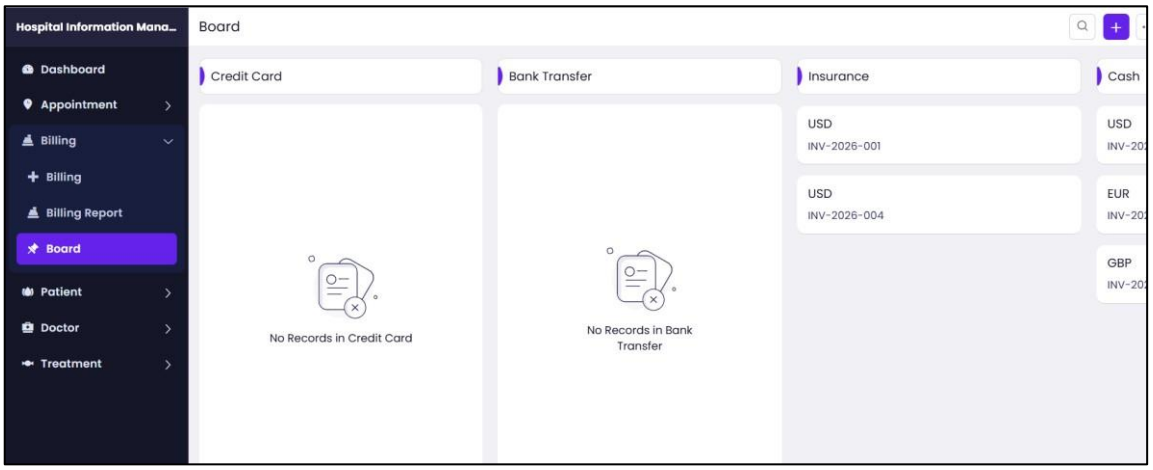
STEP 4: Enter Hospital Management as the application name and click Create Application**.**

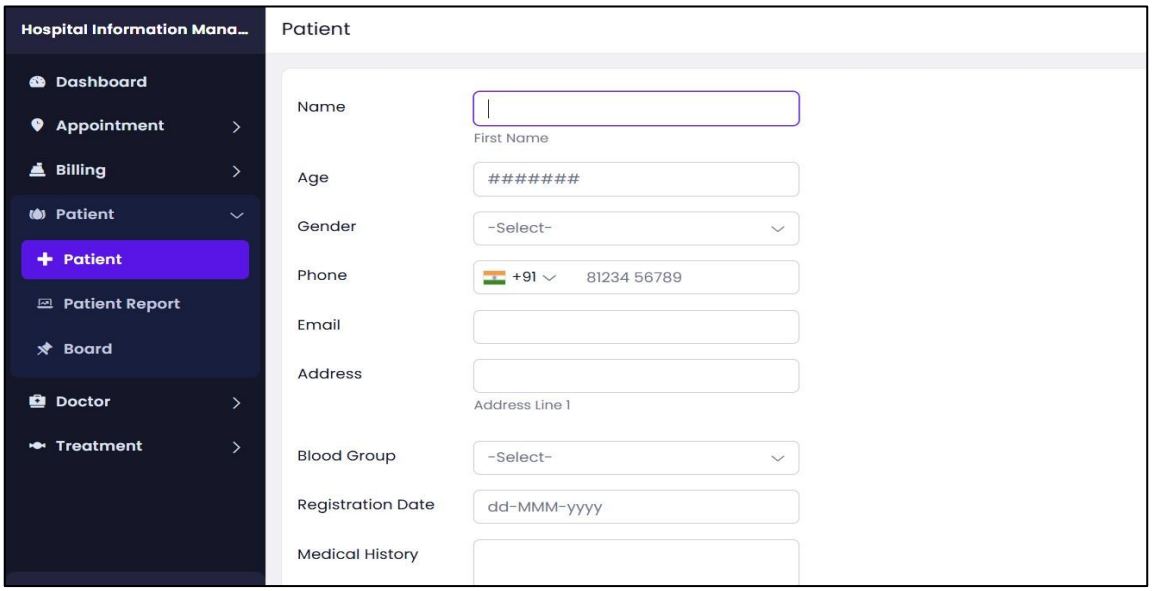


Step 5: Add fields




Hospital Information Mana...
Billing
Dashboard
Appointment
Billing
Billing
Billing Report
Board
Patient
Doctor
Treatment
Appointment
Treatment
-Select-
Amount
########.##
Currency
Bill Date
dd-MMM-yyyy
Payment Status
-Select-
Due Date
dd-MMM-yyyy
Invoice Number
Payment Method
-Select-
Submit
Reset


Hospital Information Mana...
Board
Dashboard
Appointment
Billing
Billing
Billing Report
Board
Patient
Doctor
Treatment
Credit Card
Bank Transfer
Insurance
Cash
No Records in Credit Card
No Records in Bank Transfer
USD
INV-2026-001
USD
INV-2026-004
USD
EUR
GBP


Hospital Information Mana...
Patient
Dashboard
Appointment
Billing
Patient
Patient
Patient Report
Board
Doctor
Treatment
Name
First Name
Age
#######
Gender
-Select-
Phone
+91
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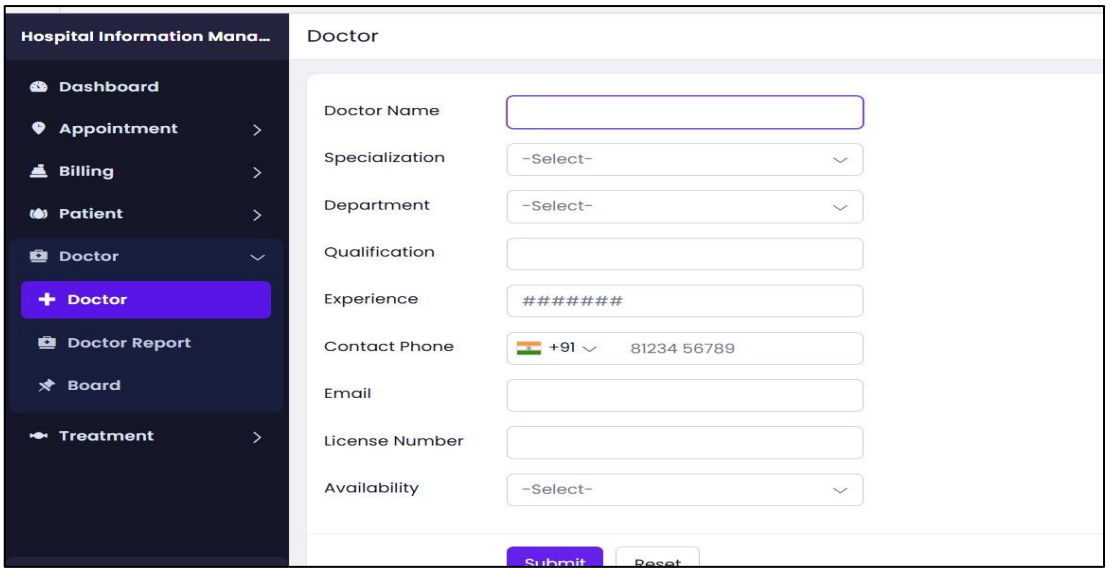
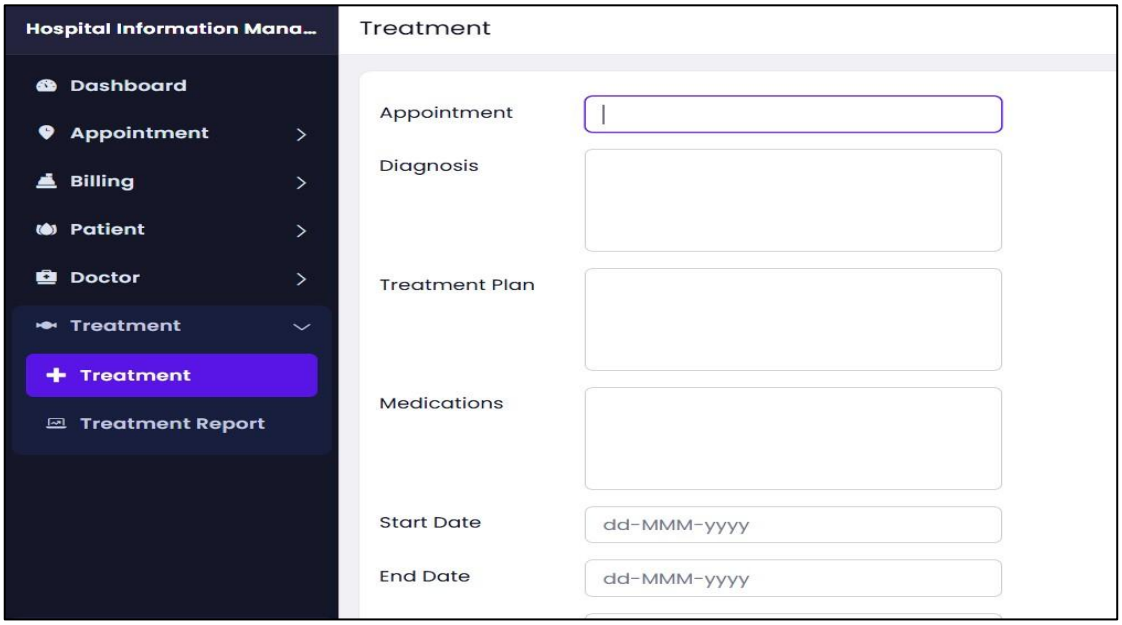
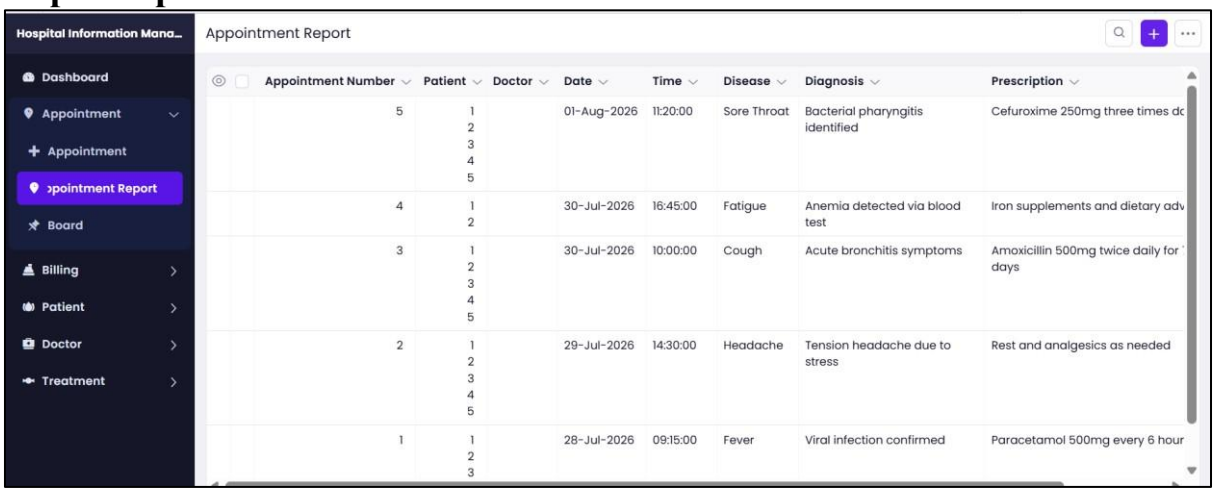
Email
Address
Address Line 1
Blood Group
-Select-
Registration Date
dd-MMM-yyyy
Medical History

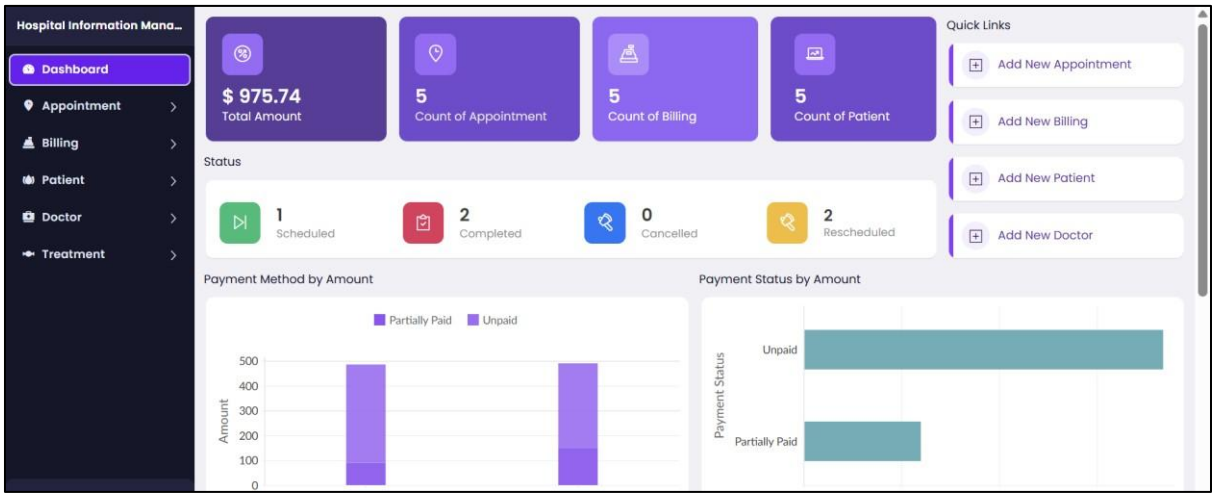




Step 6:Reports of all fields



Step 7:Final dashboard



Exp:9 Student Counselling System

Aim:

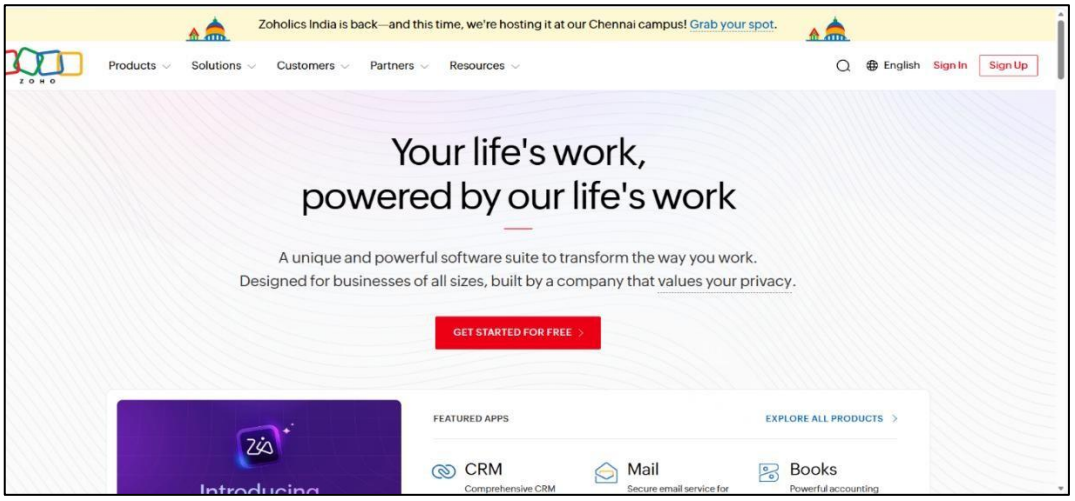
To develop a cloud-based Student Counselling System using Zoho Creator.

Steps:

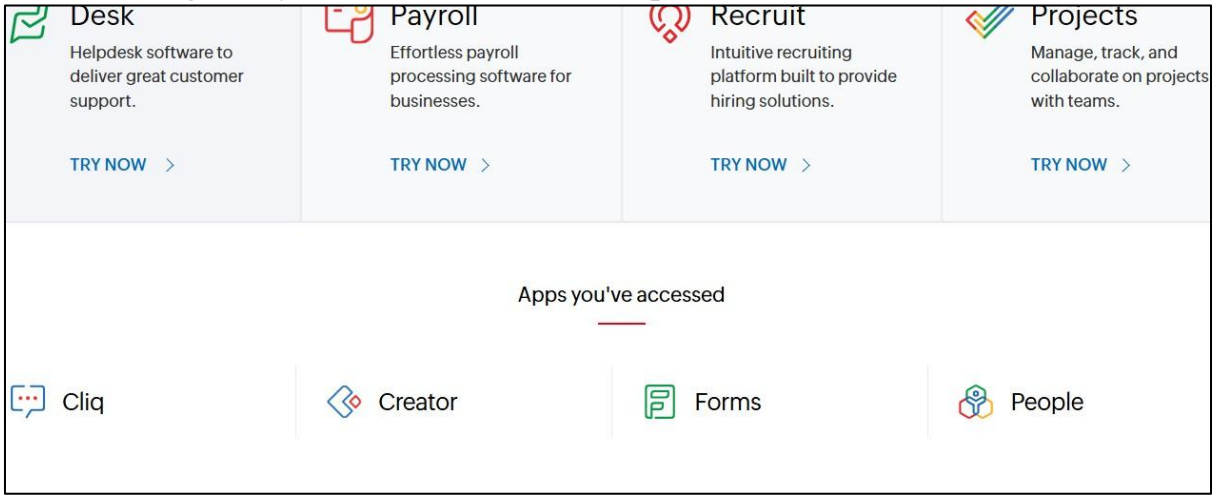
1. Create a new application.
2. Create a Student Counselling System
3. Add fields: student, counselling System,counsellor
4. Create reports to display all above details
5. Test the application by entering student details details.

Implemented:

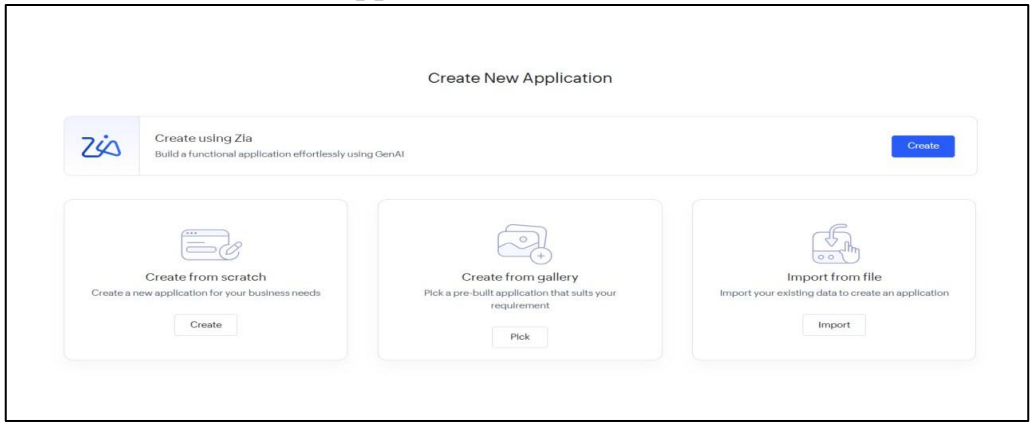
Step 1: Go to zoho.com



STEP 2: Login to your Zoho account and open Zoho Creator

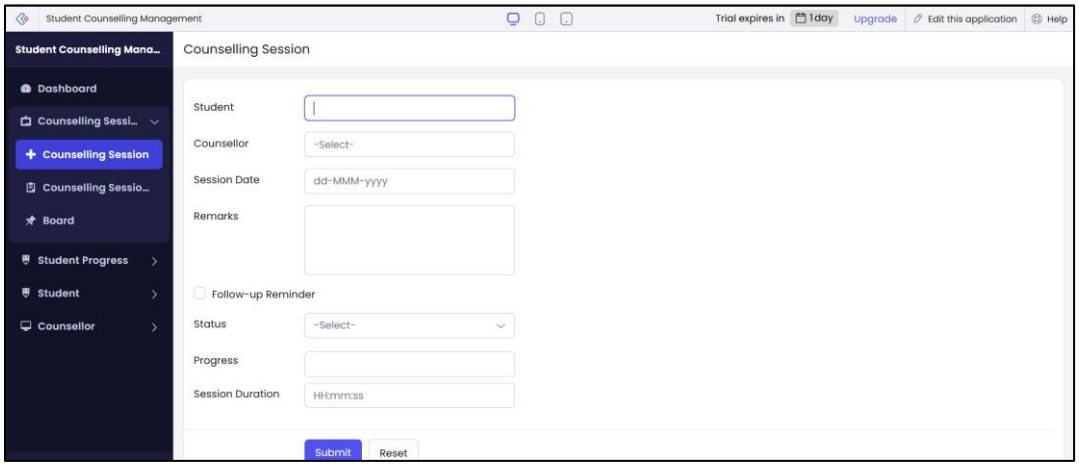


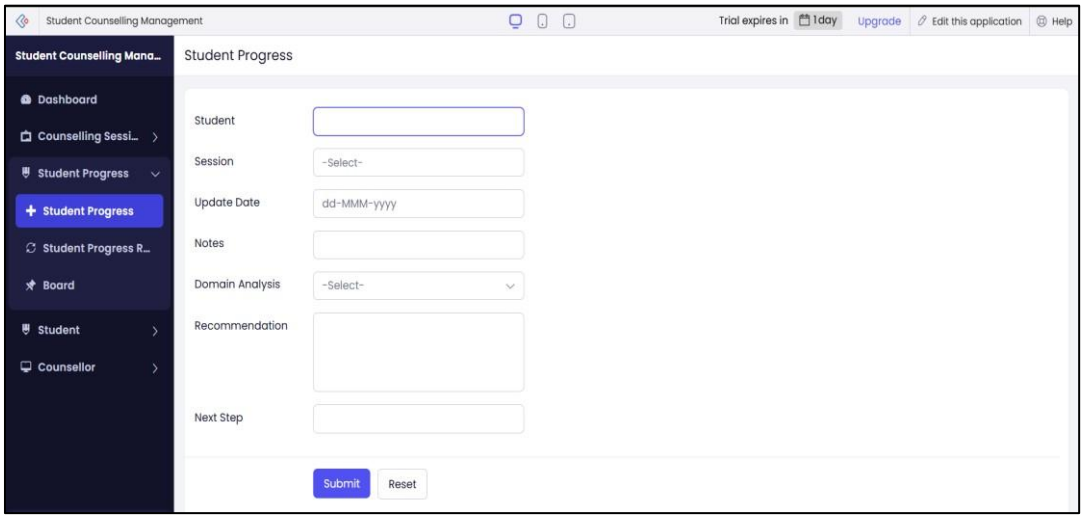
STEP 3: Click Create New Application and select Create from Scratch

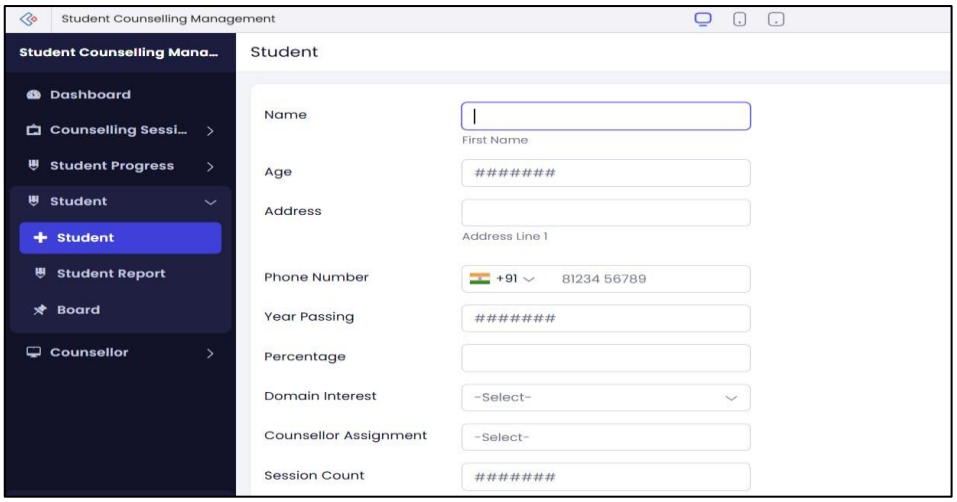


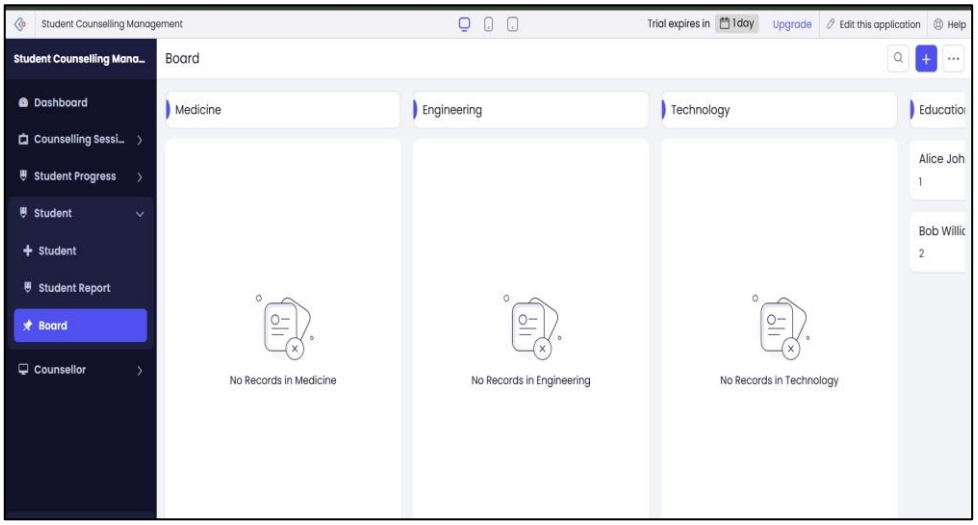
STEP 4: Enter Hospital Management as the application name and click Create Application**.**

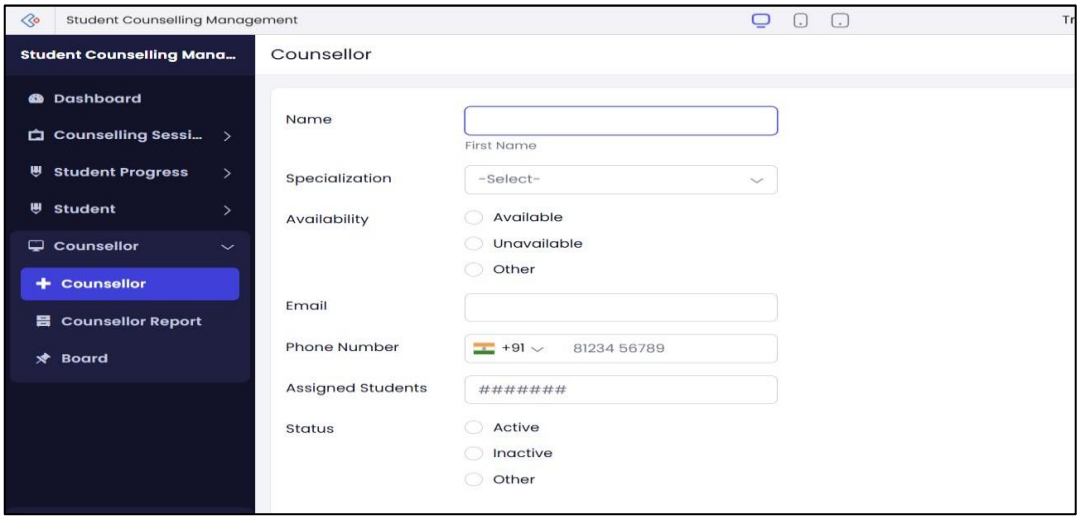
Step 5: Add fields



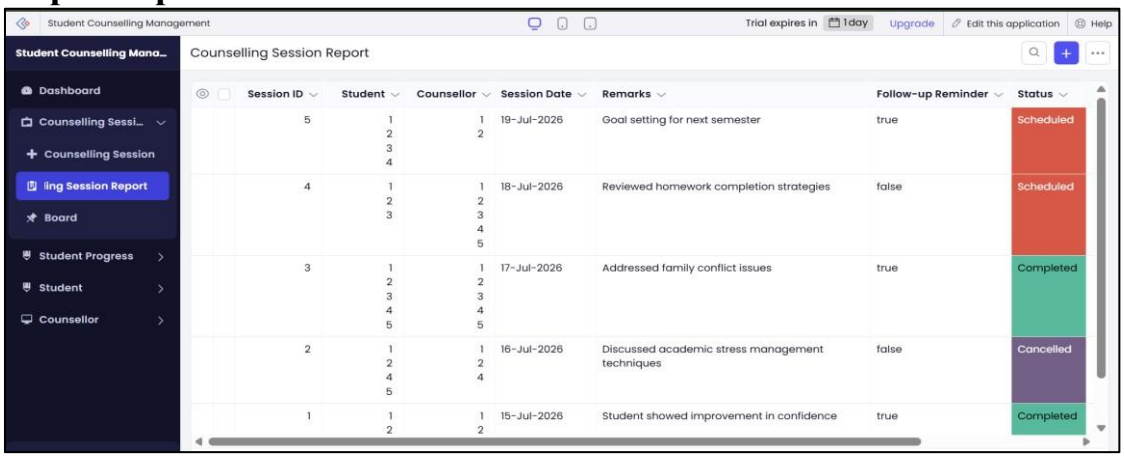


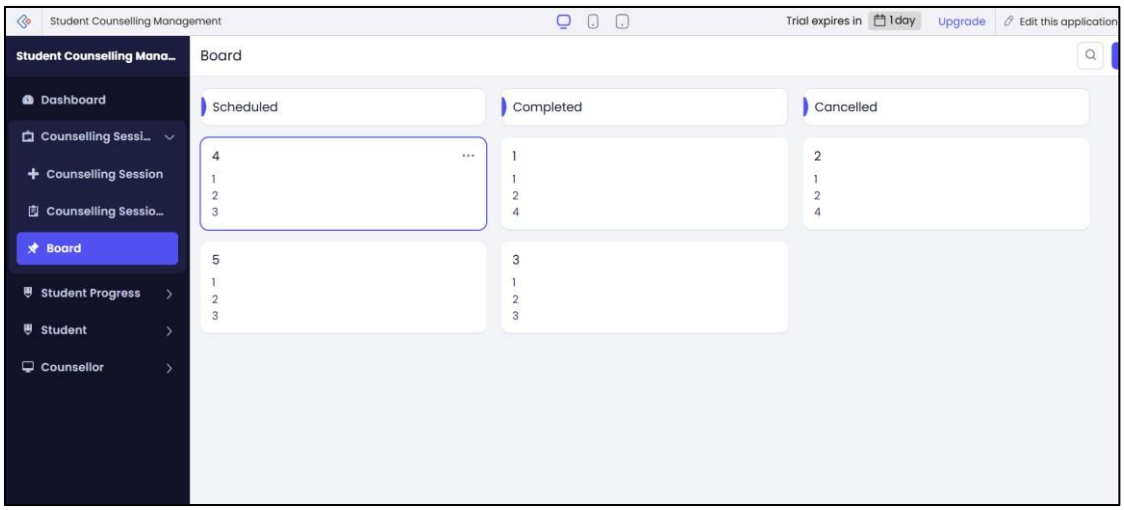

Student Counselling Management
Student Counselling Mana...
Student
Dashboard
Counselling Sessi...
Student Progress
Student
Student
Student Report
Board
Counsellor
Name
First Name
Age
#######
Address
Address Line 1
Phone Number
+91
81234 56789
Year Passing
#######
Percentage
Domain Interest
-Select-
Counsellor Assignment
-Select-
Session Count
#######

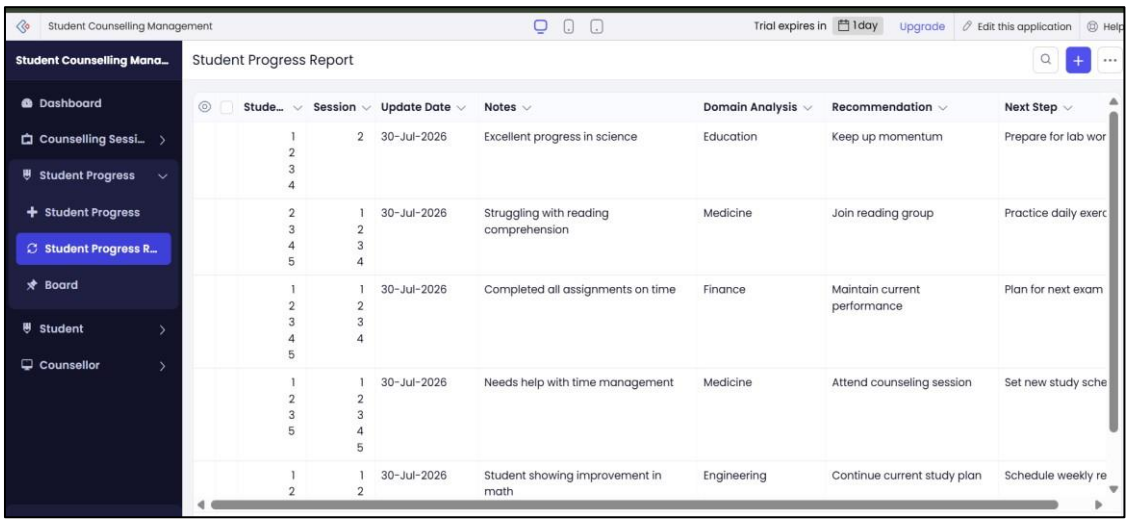

Student Counselling Management
Trial expires in
1 day
Upgrade
Edit this application
Help
Student Counselling Mana...
Board
Dashboard
Counselling Sessi...
Student Progress
Student
Student
Student Report
Board
Counsellor
Medicine
Engineering
Technology
No Records in Medicine
No Records in Engineering
No Records in Technology

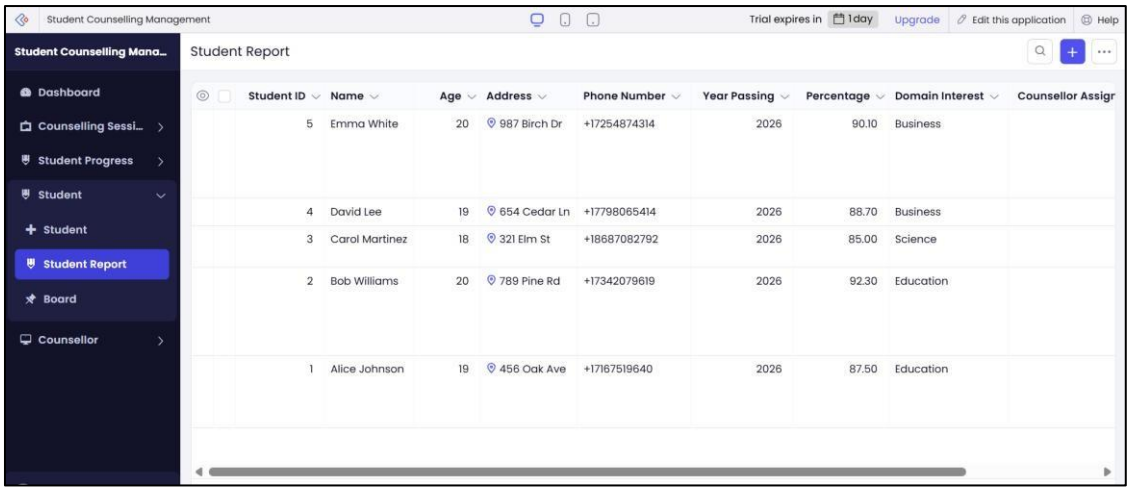

Student Counselling Management
Student Counselling Mana...
Counsellor
Dashboard
Counselling Sessi...
Student Progress
Student
Counsellor
Counsellor
Counsellor Report
Board
Name
First Name
Specialization
-Select-
Availability
Available
Unavailable
Other
Email
Phone Number
+91
81234 56789
Assigned Students
#######
Status
Active
Inactive
Other

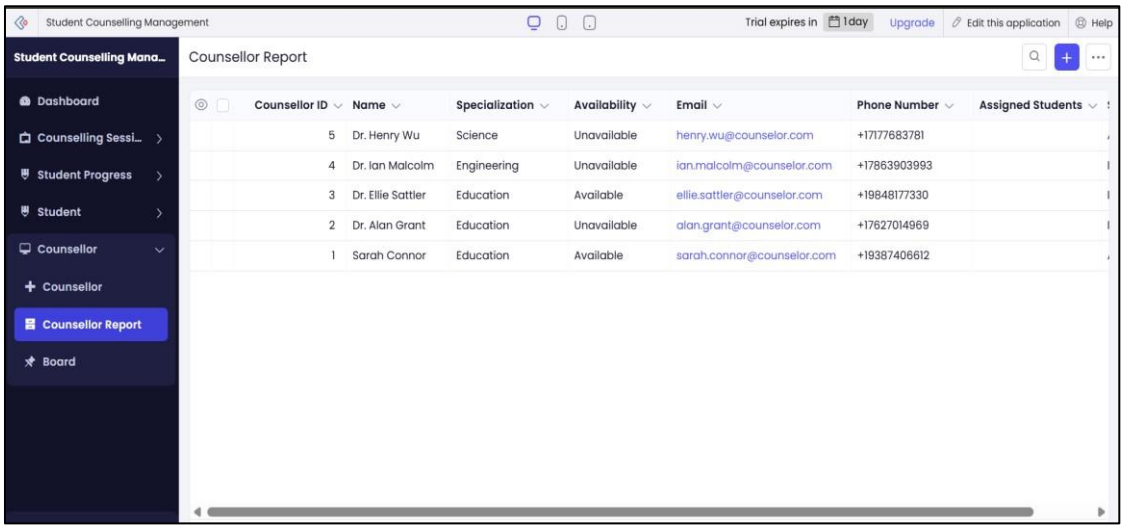
Step 6:Report



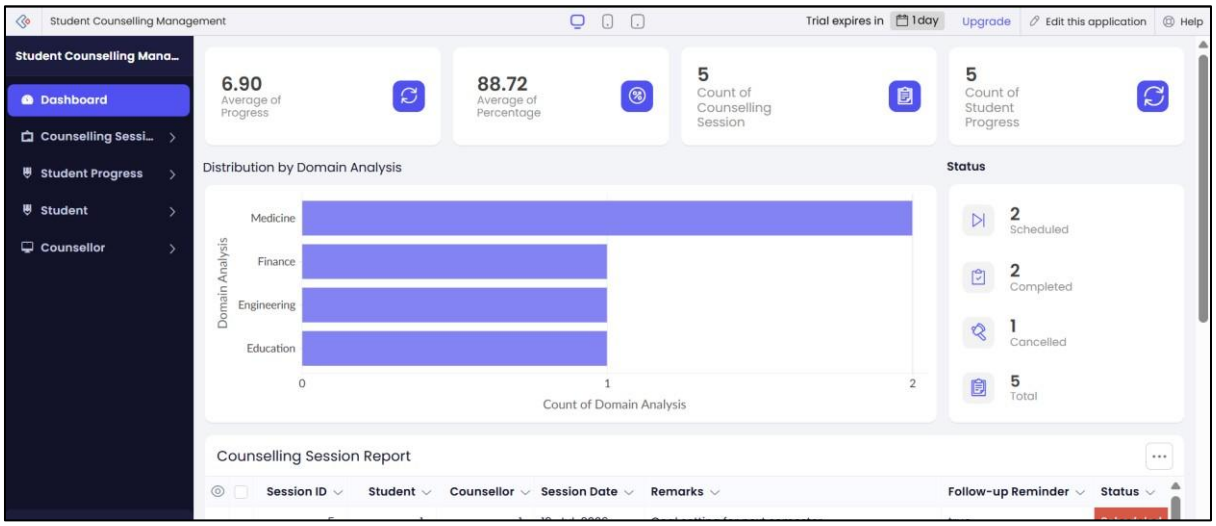








Step 7: Dashboard



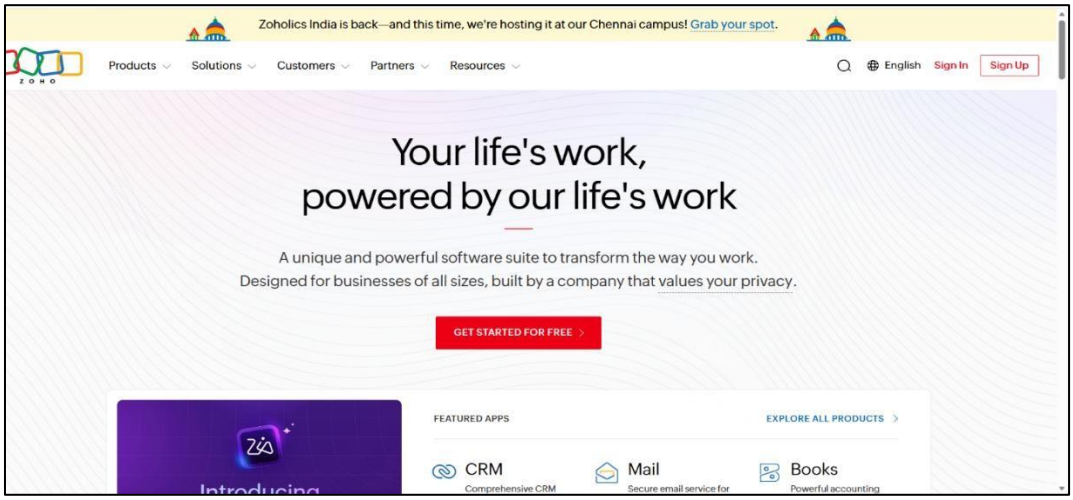
Exp:10 Student Information Management

Aim: To develop a cloud-based Student information System using Zoho Creator.

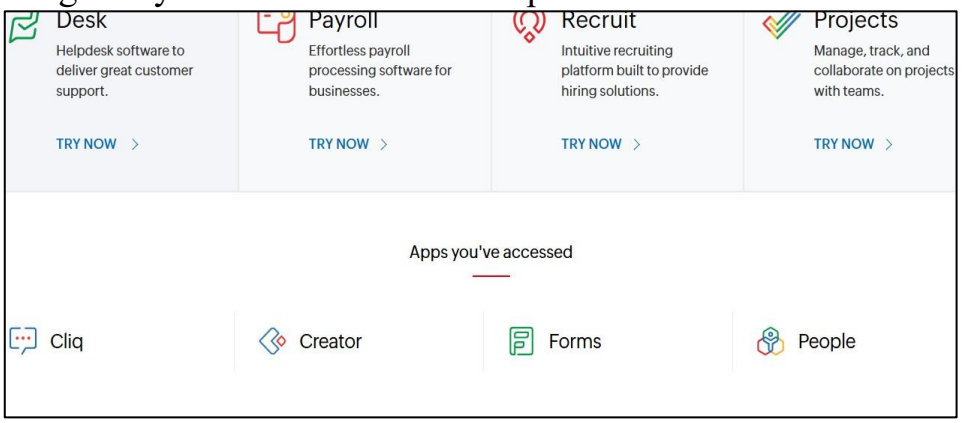
Steps:

1. Create a new application.
2. Create a Student Counselling System
3. Add fields: student, Attendance, Semester Marks, Grades, Progress Reports
4. Create reports to display all above details
5. Test the application by entering student details details. **Implemented:**

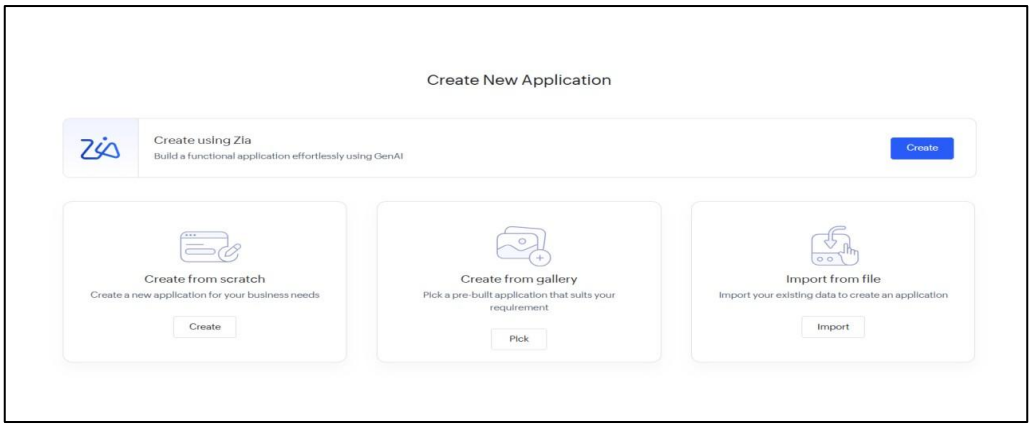
Step 1: Go to zoho.com



STEP 2: Login to your Zoho account and open Zoho Creator

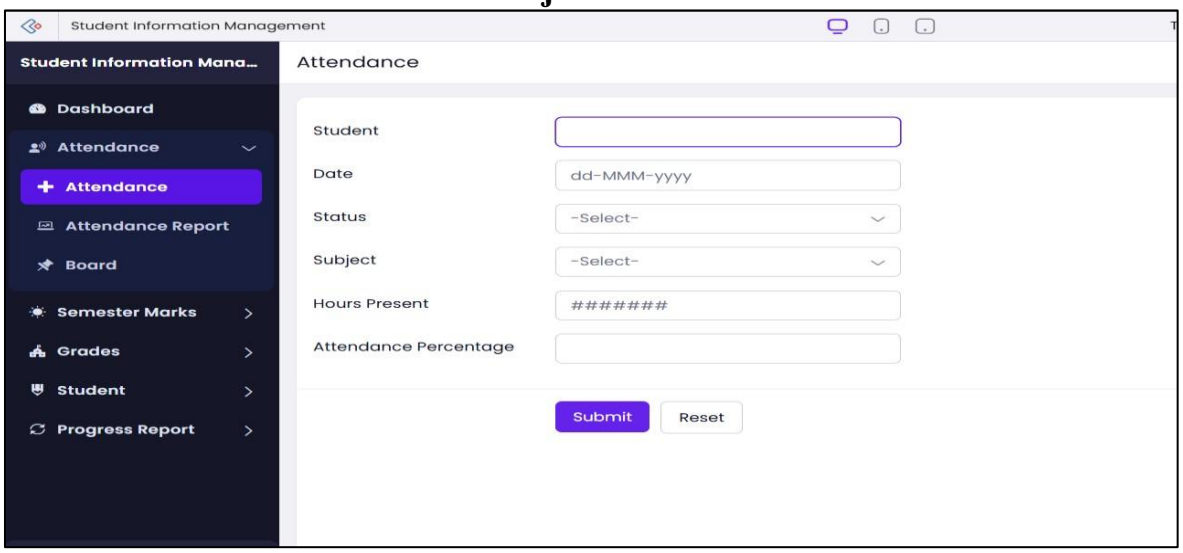


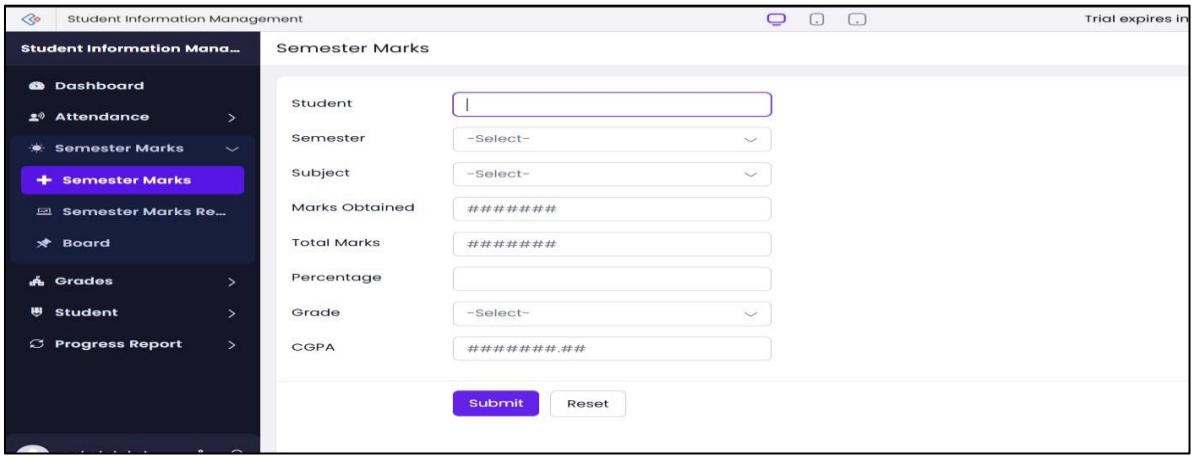
STEP 3: Click Create New Application and select Create from Scratch

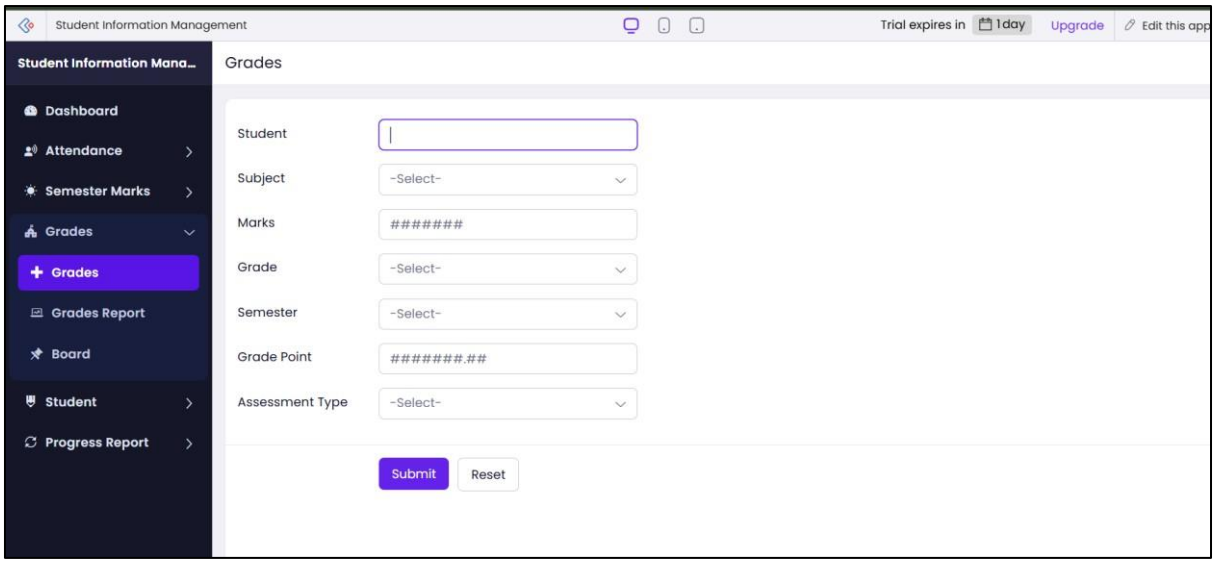


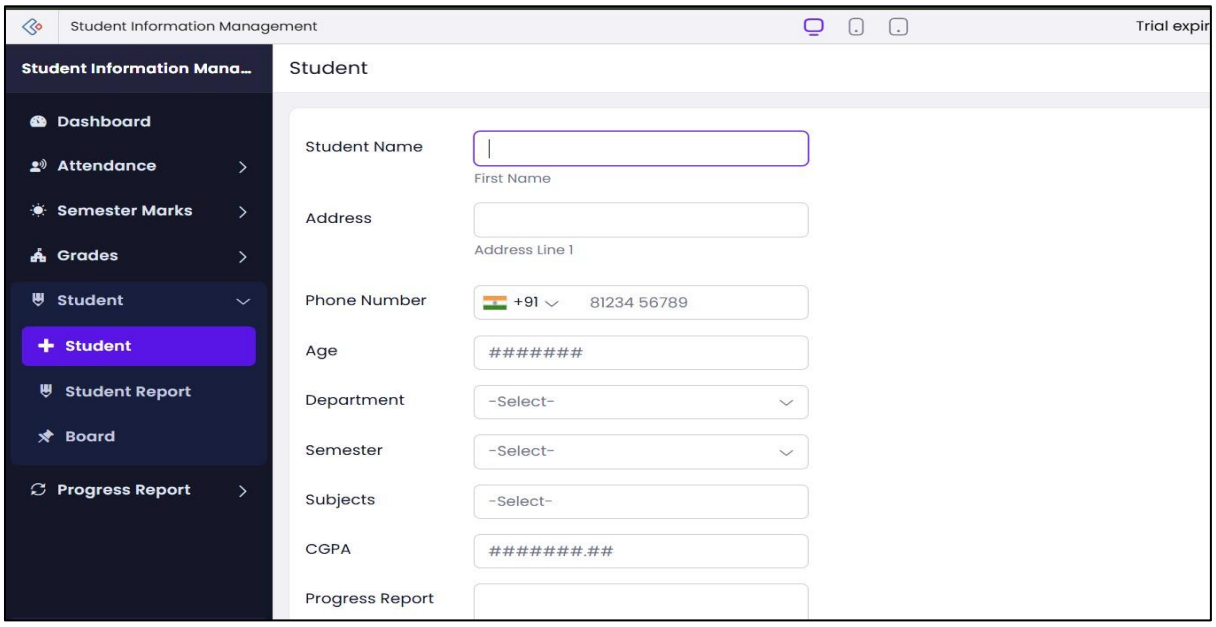
STEP 4: Enter Hospital Management as the application name and click Create Application**.**

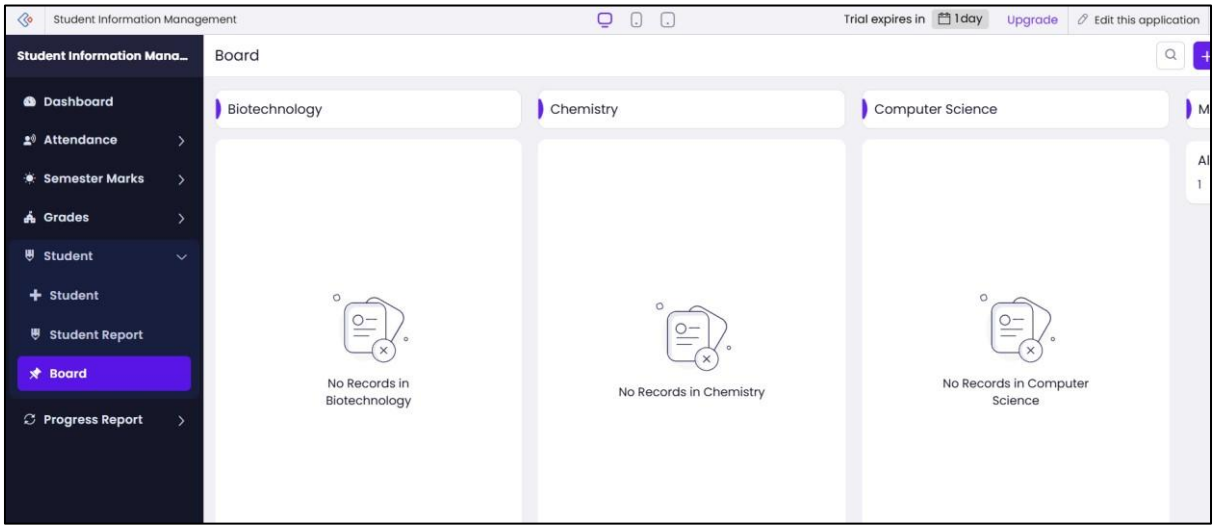
STEP 5: Elements included in Projects

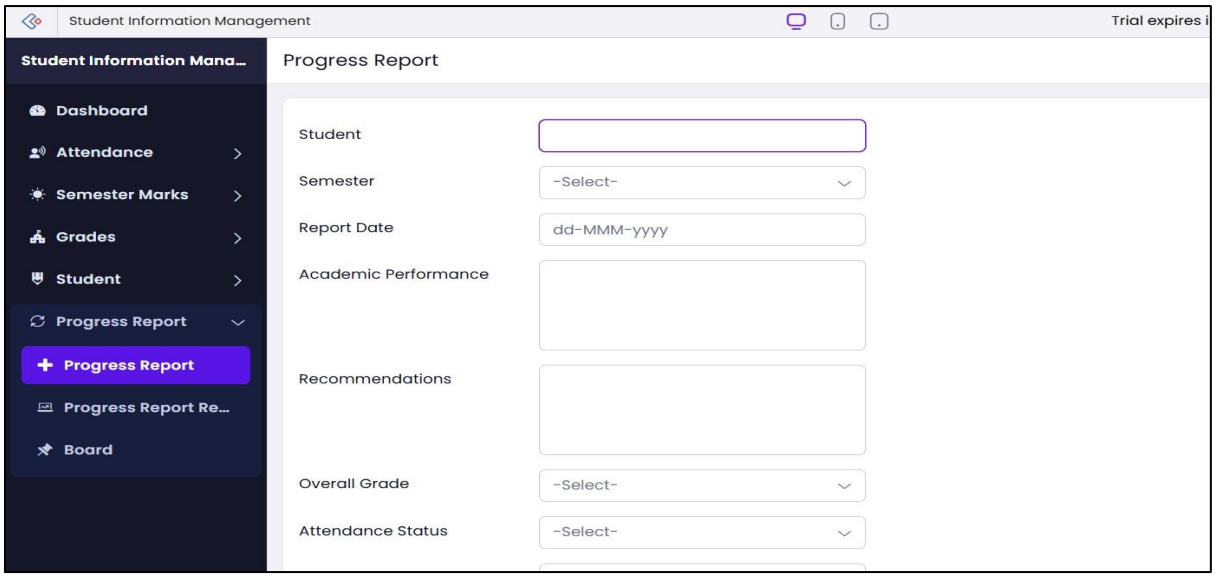




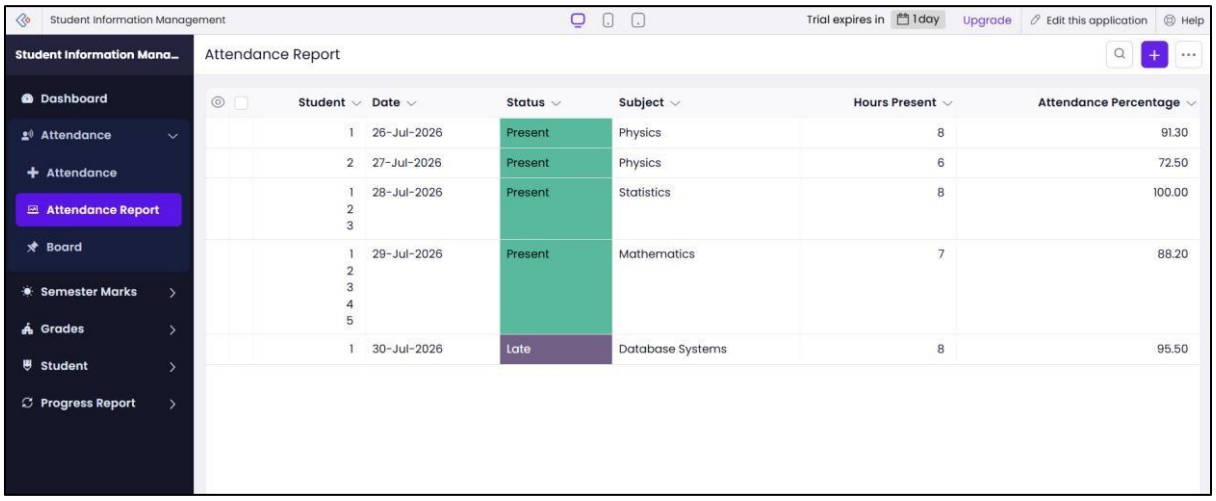

Student Information Management
Trial expires in 1 day
Upgrade
Edit this app
Student Information Mana...
Grades
Dashboard
Attendance
Semester Marks
Grades
Grades
Grades Report
Board
Student
Progress Report
Student
Subject
-Select-
Marks
#######
Grade
-Select-
Semester
-Select-
Grade Point
#######.##
Assessment Type
-Select-
Submit
Reset


Student Information Management
Trial expir
Student Information Mana...
Student
Dashboard
Attendance
Semester Marks
Grades
Student
Student
Student Report
Board
Progress Report
Student Name
First Name
Address
Address Line 1
Phone Number
+91
81234 56789
Age
#######
Department
-Select-
Semester
-Select-
Subjects
-Select-
CGPA
#######.##
Progress Report

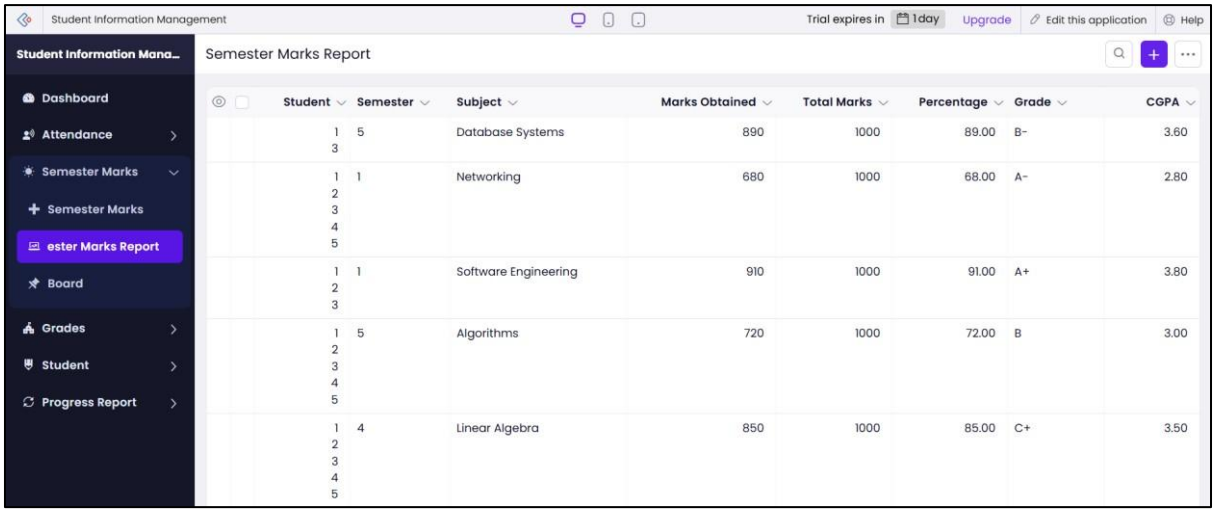

Student Information Management
Trial expires in 1 day
Upgrade
Edit this application
Student Information Mana...
Board
Dashboard
Attendance
Semester Marks
Grades
Student
Student
Student Report
Board
Progress Report
Biotechnology
Chemistry
Computer Science
No Records in Biotechnology
No Records in Chemistry
No Records in Computer Science



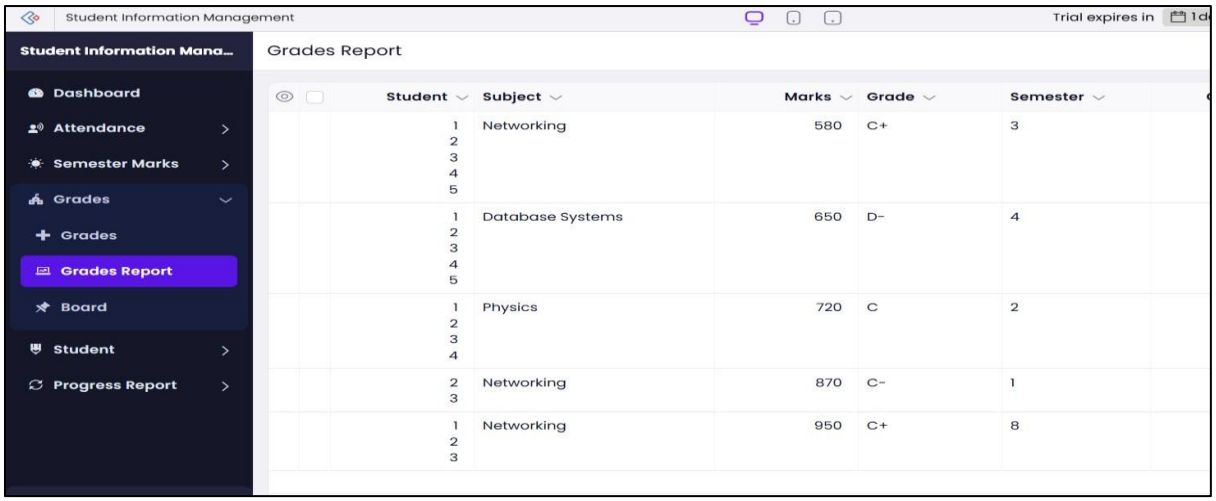
STEP 6:Reports

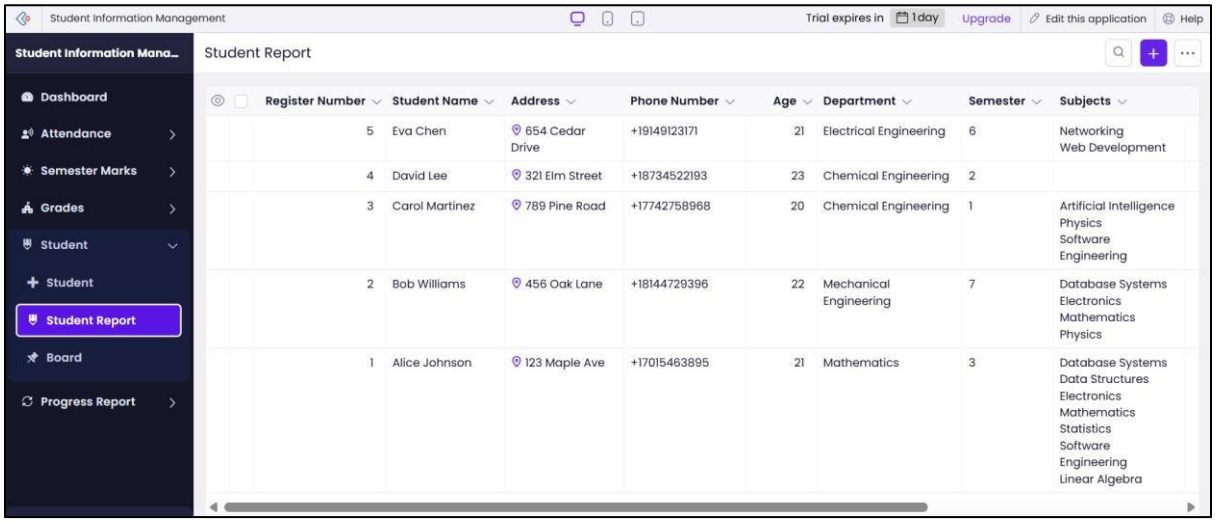


Student	Date	Status	Subject	Hours Present	Attendance Percentage
1	26-Jul-2026	Present	Physics	8	91.30
2	27-Jul-2026	Present	Physics	6	72.50
1 2 3	28-Jul-2026	Present	Statistics	8	100.00
1 2 3 4 5	29-Jul-2026	Present	Mathematics	7	88.20
1	30-Jul-2026	Late	Database Systems	8	95.50

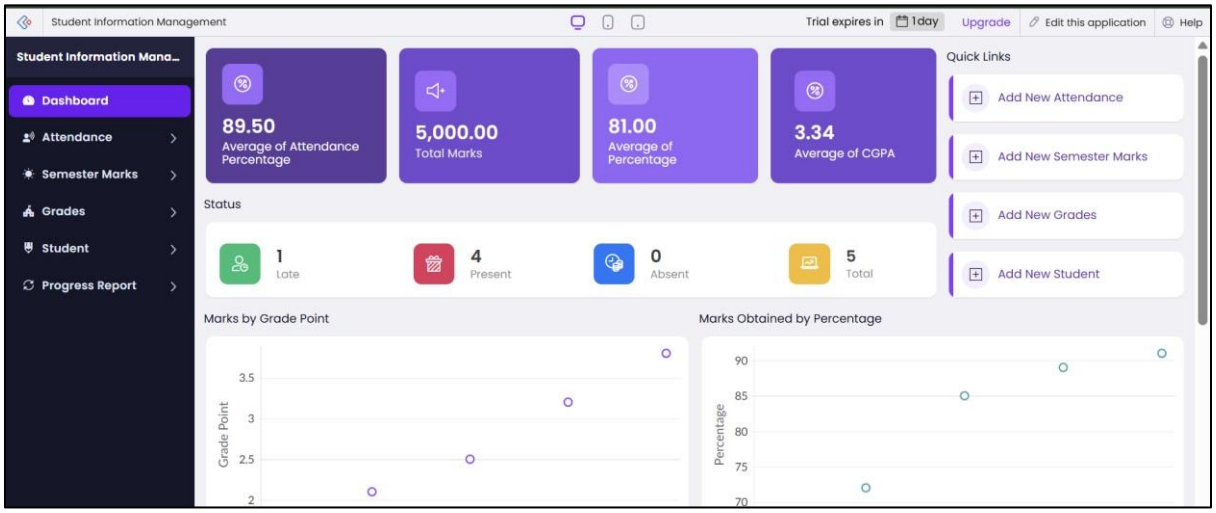


Student	Semester	Subject	Marks Obtained	Total Marks	Percentage	Grade	CGPA
1 3	5	Database Systems	890	1000	89.00	B-	3.60
1 2 3 4 5	1	Networking	680	1000	68.00	A-	2.80
1 2 3	1	Software Engineering	910	1000	91.00	A+	3.80
1 2 3 4 5	5	Algorithms	720	1000	72.00	B	3.00
1 2 3 4 5	4	Linear Algebra	850	1000	85.00	C+	3.50





STEP 7: Dashboard



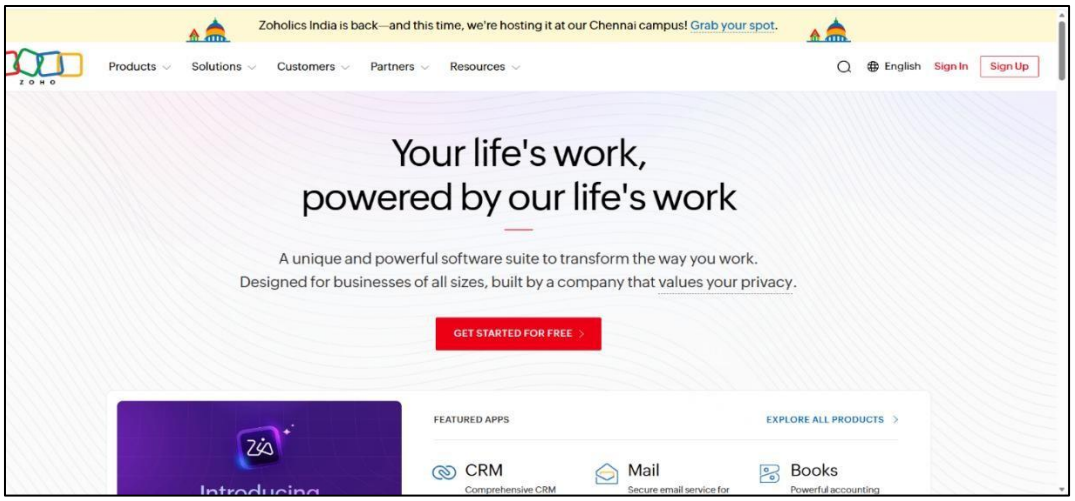
11.Online Super Market

Aim: To develop a cloud-based Online Super Market using Zoho Creator.

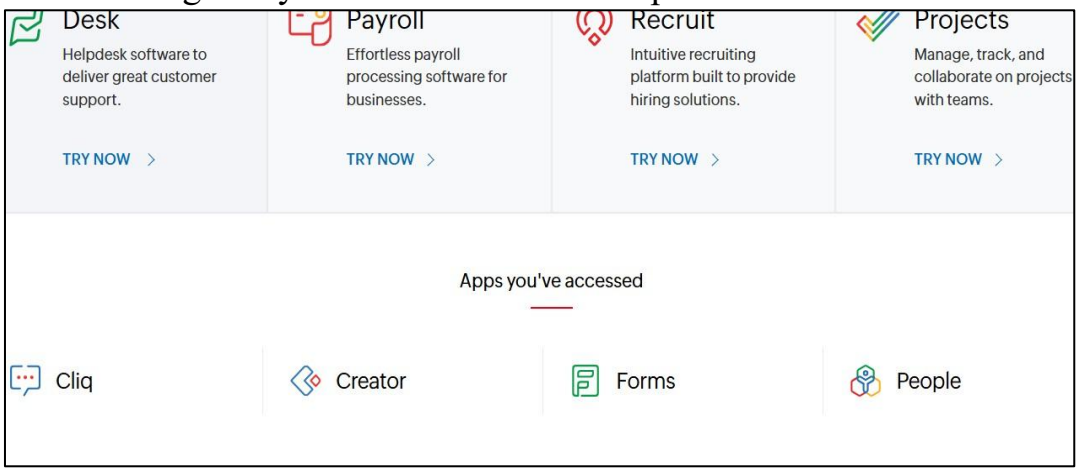
Steps:

1. Create a new application.
2. Create a Online Super Market
3. Add fields: student, Attendance, Semester Marks, Grades, Progress Reports
4. Create reports to display all above details
5. Test the application by entering student details details. **Implemented:**

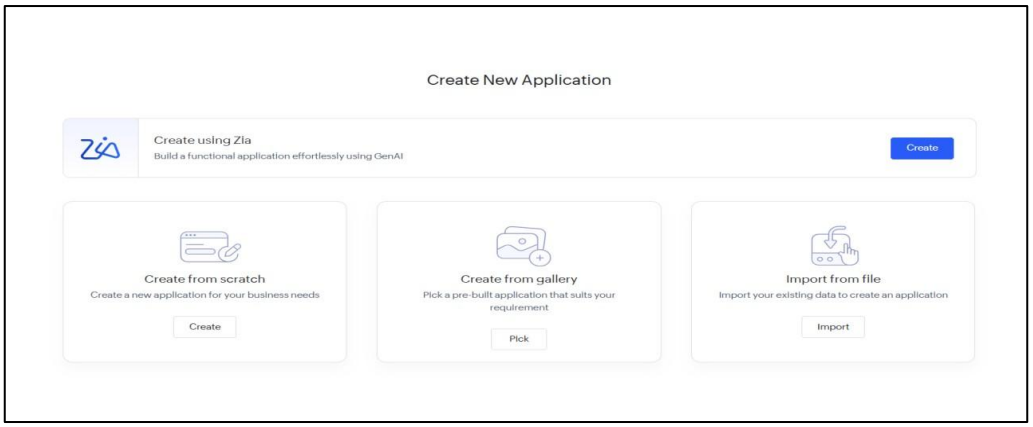
Step 1: Go to zoho.com



STEP 2: Login to your Zoho account and open Zoho Creator

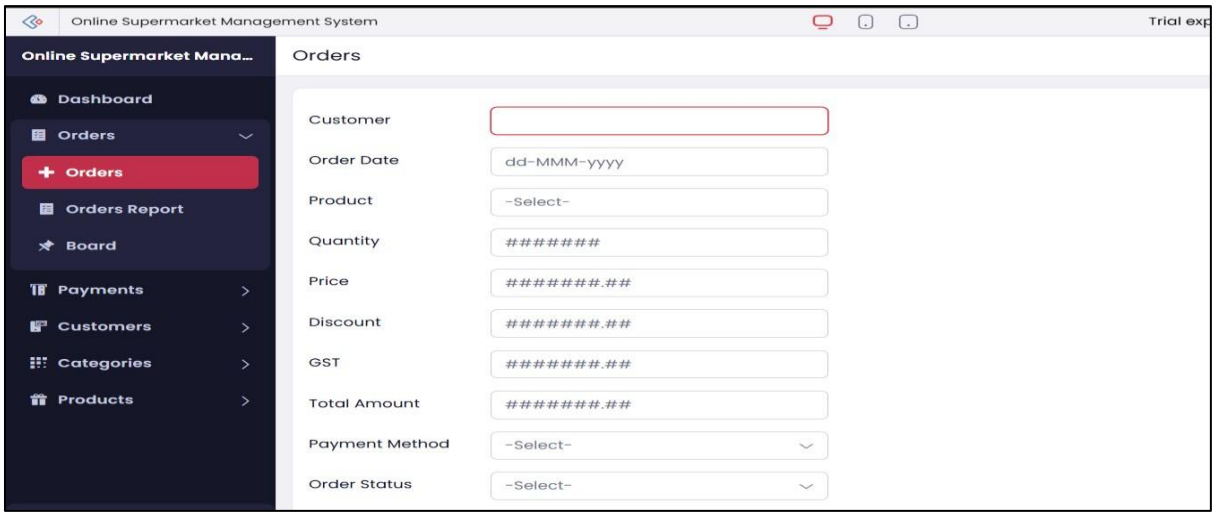


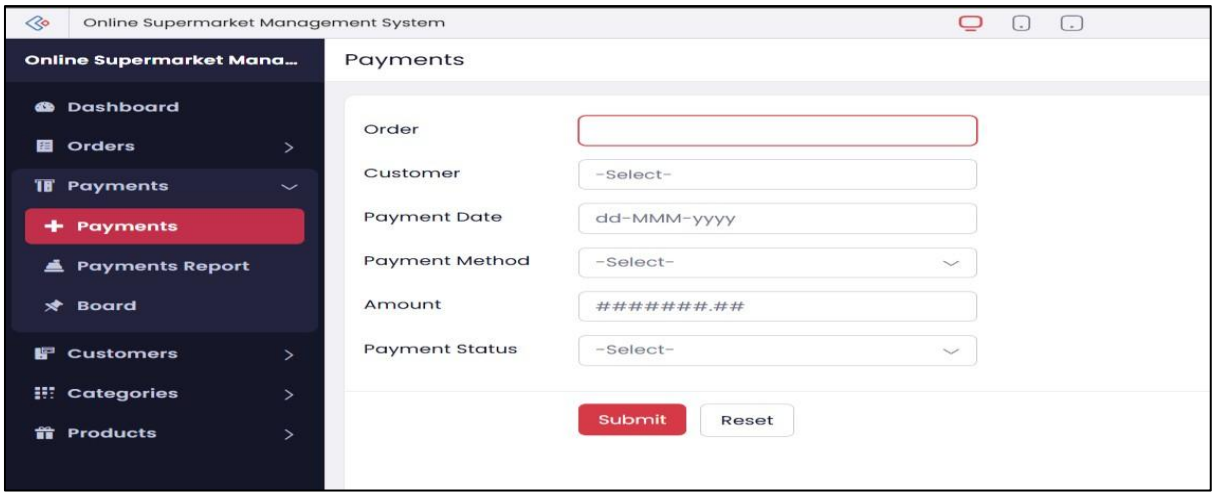
STEP 3: Click Create New Application and select Create from Scratch

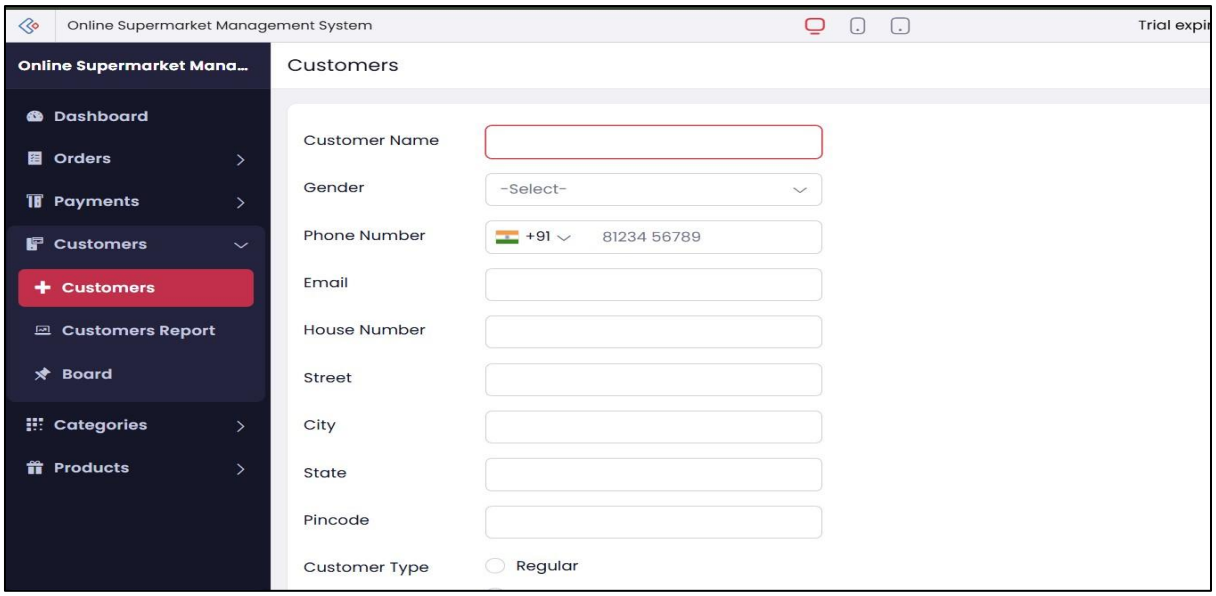


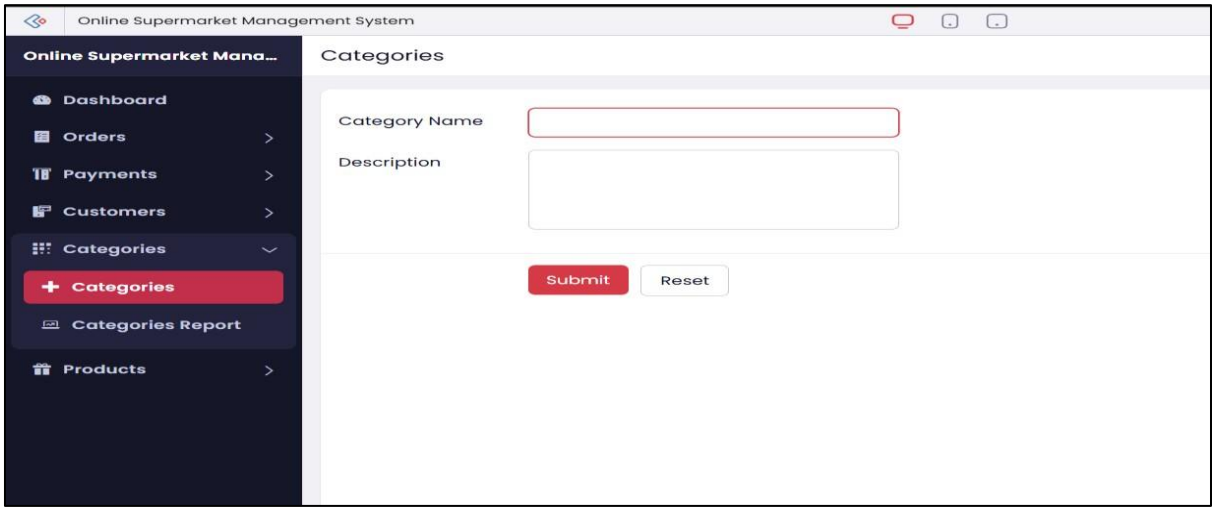
STEP 4: Enter Hospital Management as the application name and click Create Application**.**

STEP 5:Elements included in project

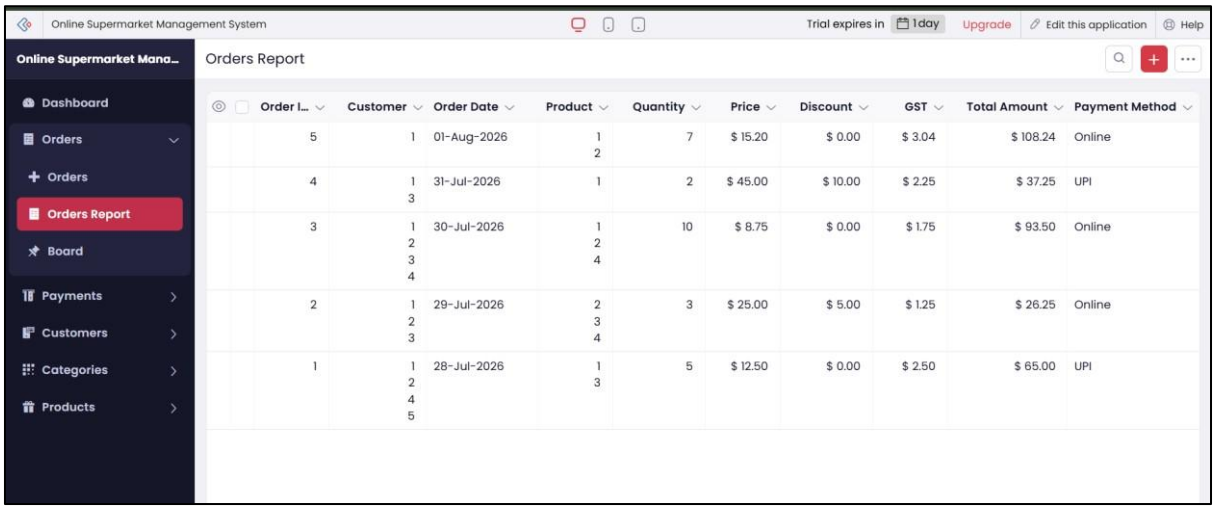




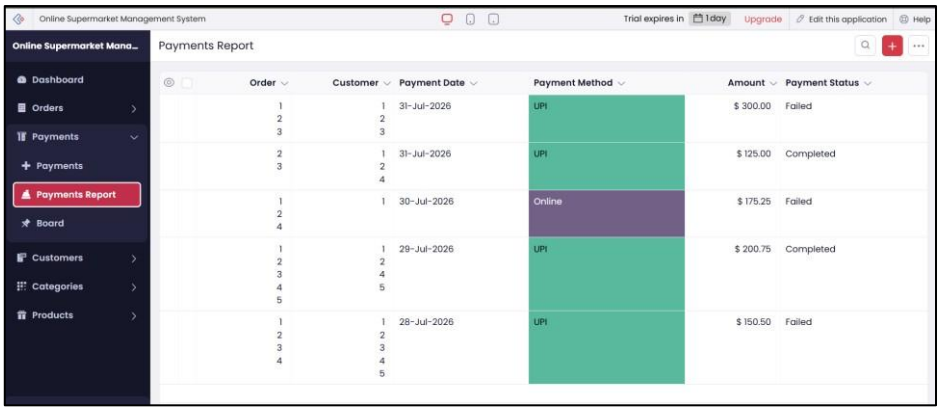


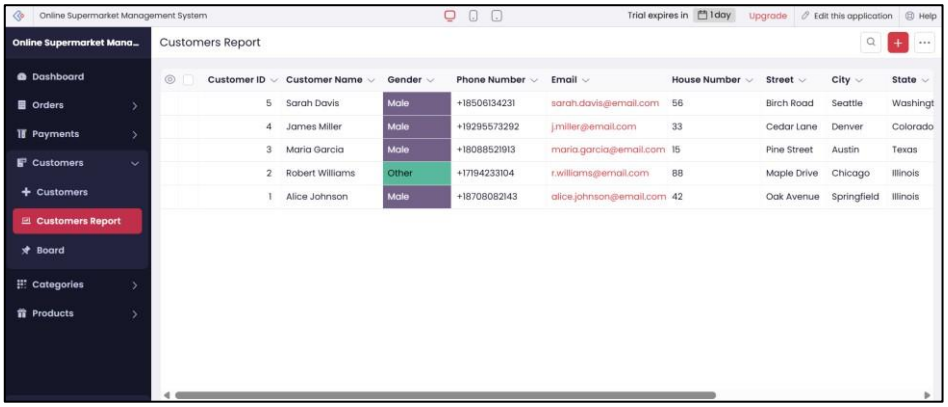


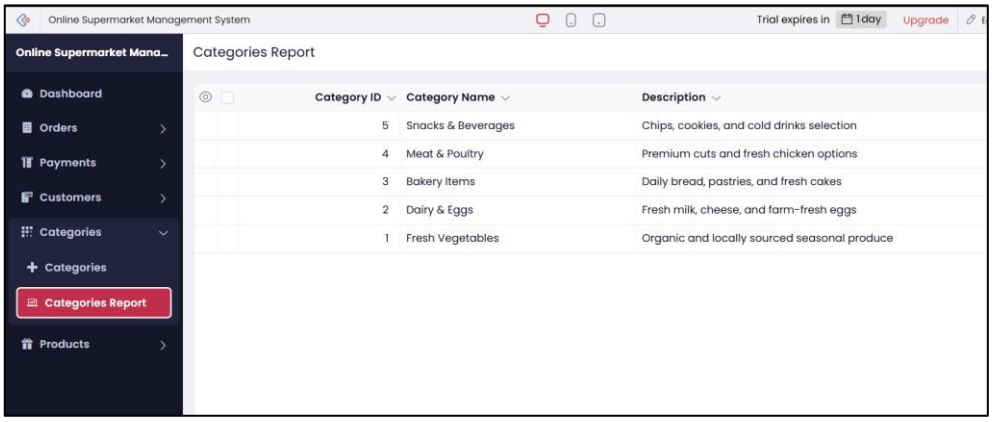
STEP 6: Reports



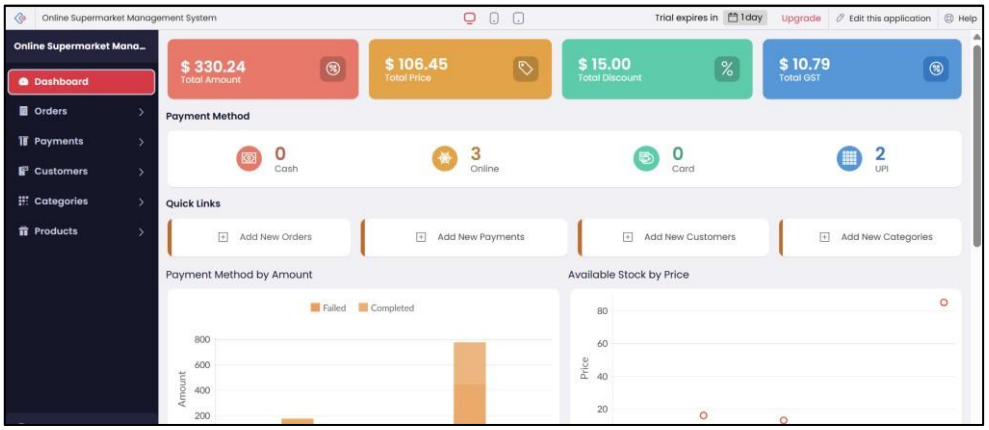
Order I...	Customer	Order Date	Product	Quantity	Price	Discount	GST	Total Amount	Payment Method
5	1	01-Aug-2026	1 2	7	$ 15.20	$ 0.00	$ 3.04	$ 108.24	Online
4	1 3	31-Jul-2026	1	2	$ 45.00	$ 10.00	$ 2.25	$ 37.25	UPI
3	1 2 3 4	30-Jul-2026	1 2 4	10	$ 8.75	$ 0.00	$ 1.75	$ 93.50	Online
2	1 2 3	29-Jul-2026	2 3 4	3	$ 25.00	$ 5.00	$ 1.25	$ 26.25	Online
1	1 2 4 5	28-Jul-2026	1 3	5	$ 12.50	$ 0.00	$ 2.50	$ 65.00	UPI







STEP 7:Dashboard



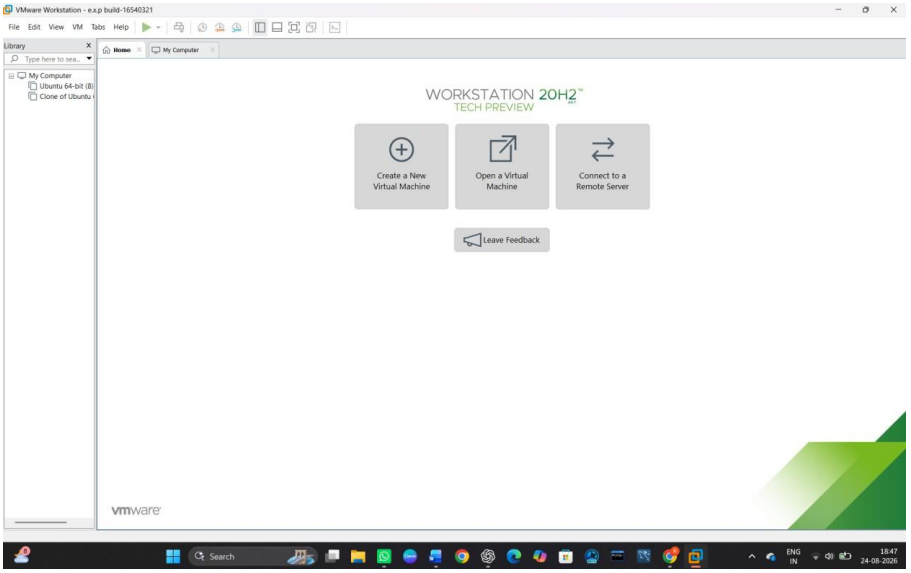
12.Install Virtualbox/VMware Workstation with different flavours of linux or windows OS on top of your present windows environment.

AIM:

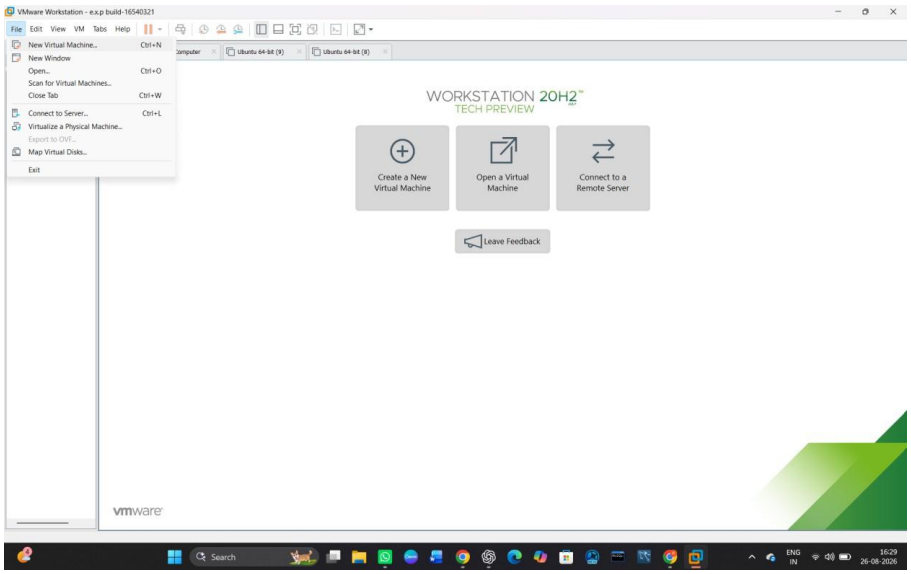
To install VMware Workstation and install a different flavour of Linux/Windows Operating System as a virtual machine on the existing Windows environment.

PROCEDURE:

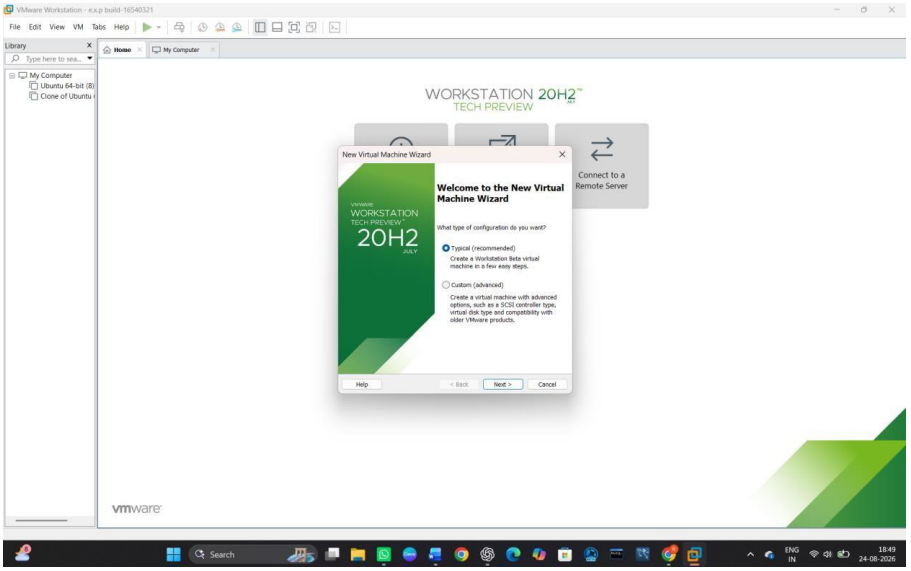
STEP 1: Go to VMware Workstation.



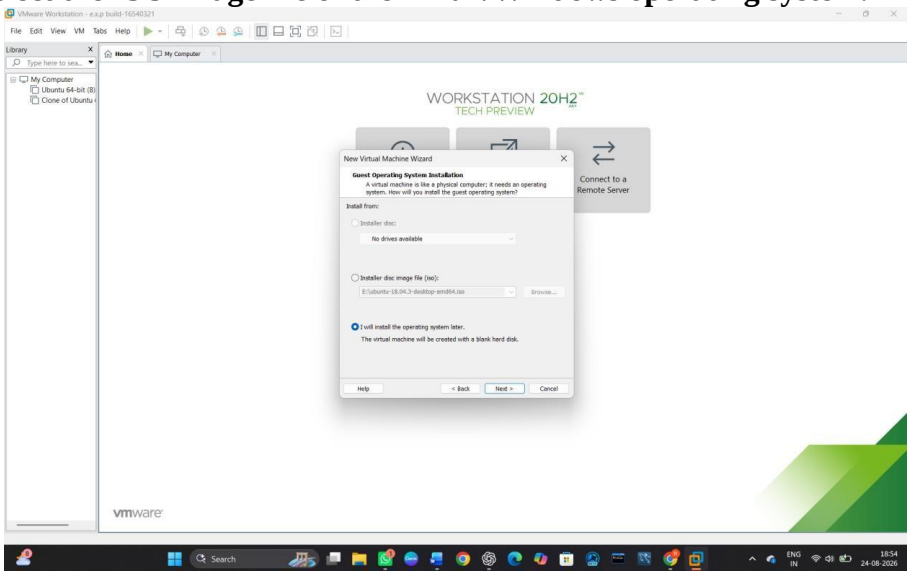
STEP 2: Click on Create a New Virtual Machine.

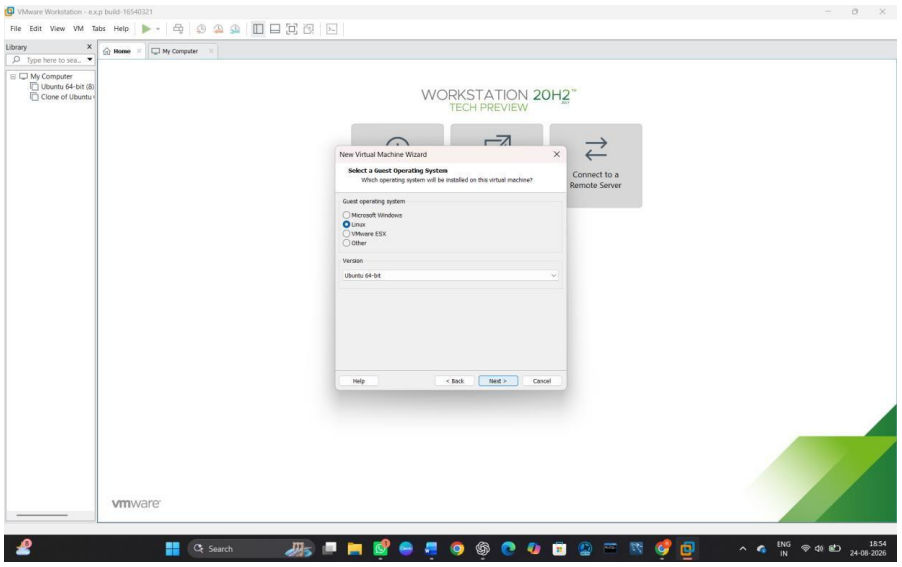


STEP 3: Select Typical (Recommended) and click Next.

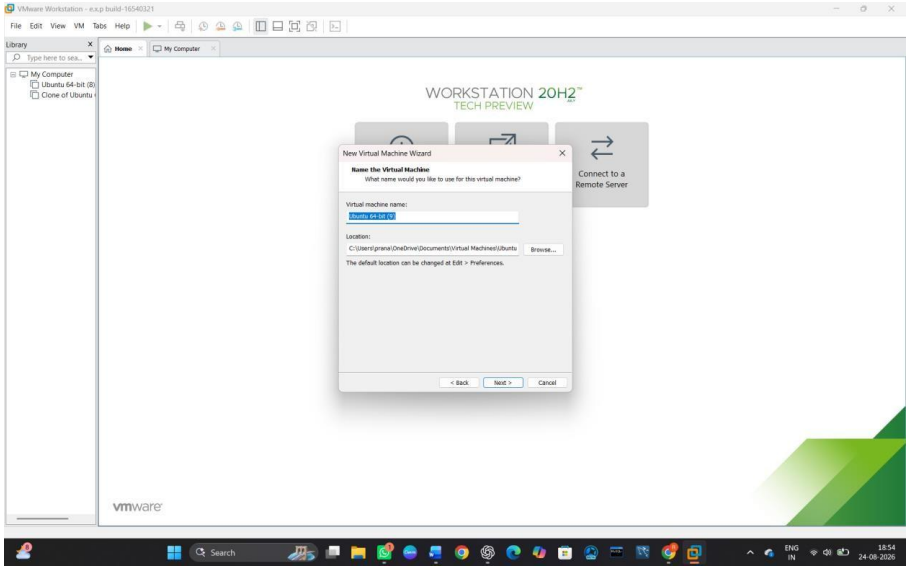


STEP 4: Select the ISO image file of the Linux/Windows operating system.

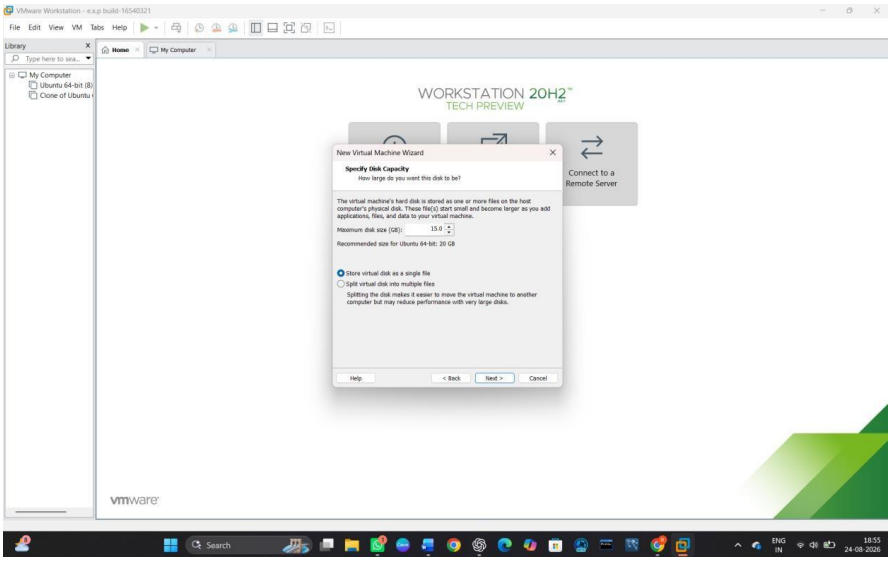




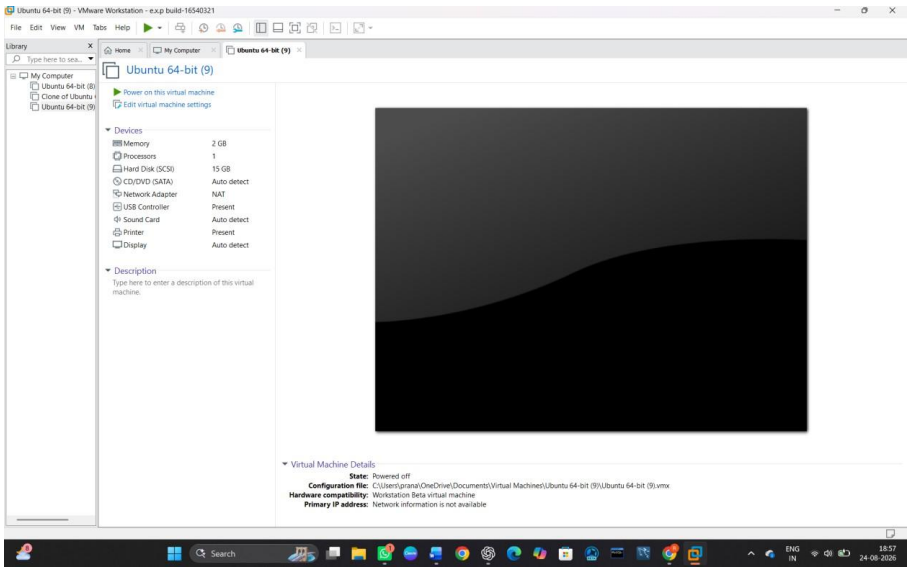
STEP 5: Enter the **Virtual Machine Name** and select the storage location.



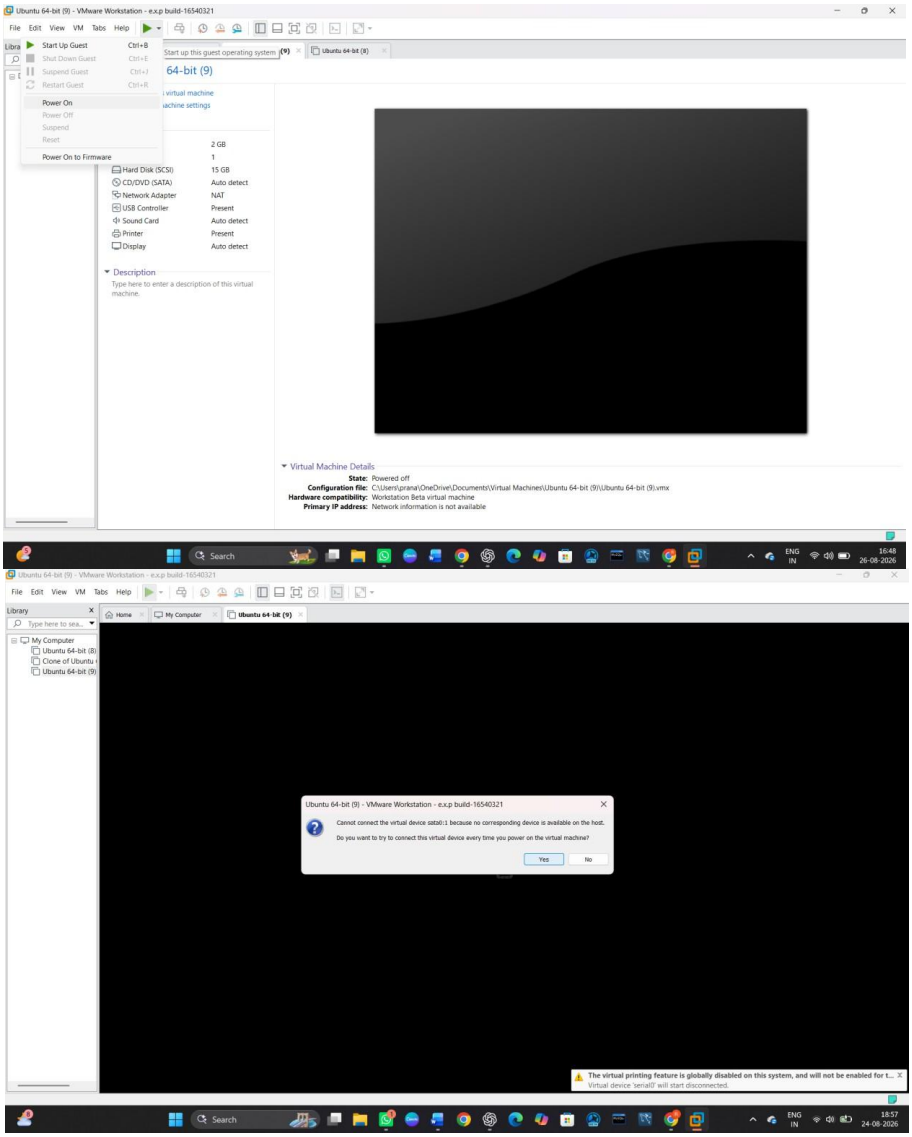
STEP 6: Specify the required **disk size** and click **Next**.



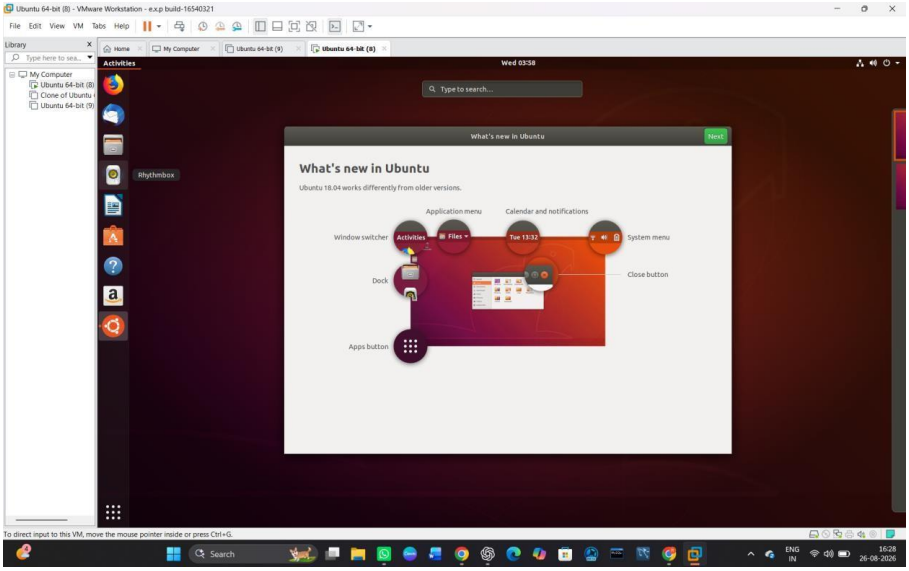
STEP 7: Click on Customize Hardware and configure the required RAM and processor.



STEP 8: Click **Power on this virtual machine**.



STEP 9: Install the selected Linux/Windows operating system by following the installation instructions.

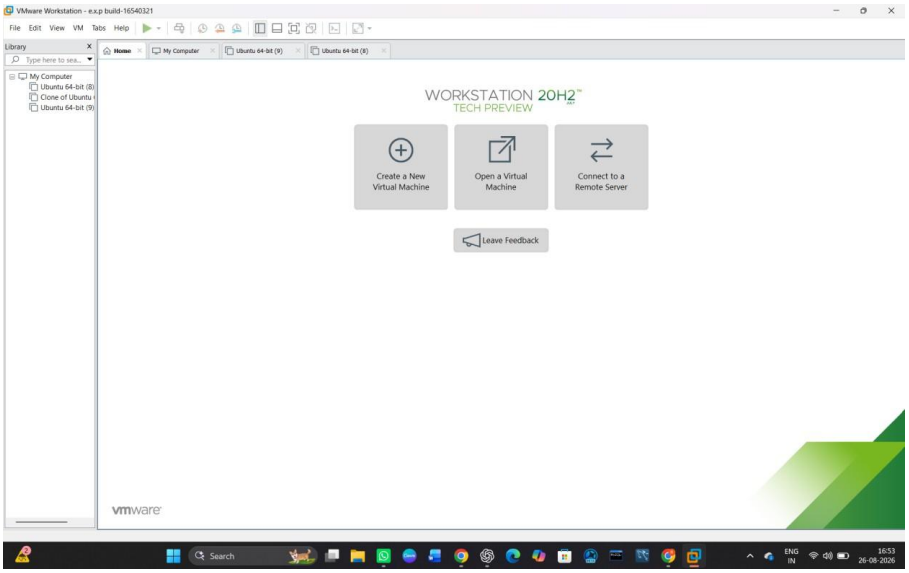


13.Install a C compiler in the virtual machine created using virtual box / VM Ware Workstation / Player and execute Simple C Programs.

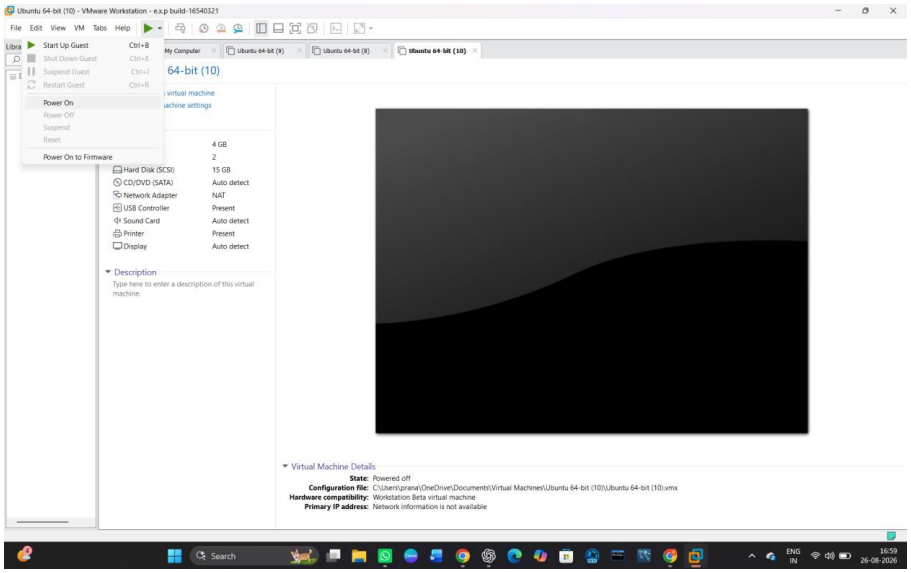
AIM:
To install a **C compiler (GCC)** in the virtual machine created using **VMware Workstation** and execute simple C programs.

PROCEDURE:

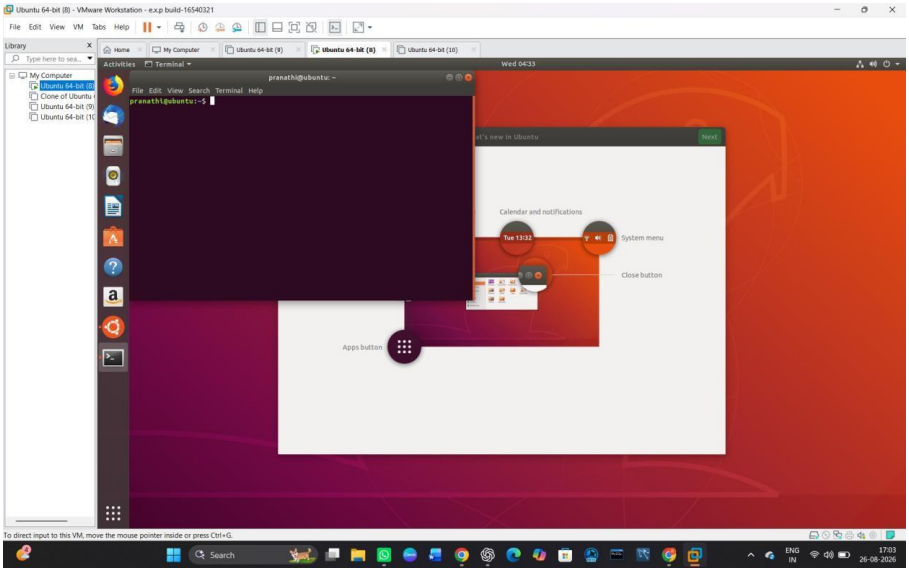
STEP 1: Go to **VMware Workstation**.



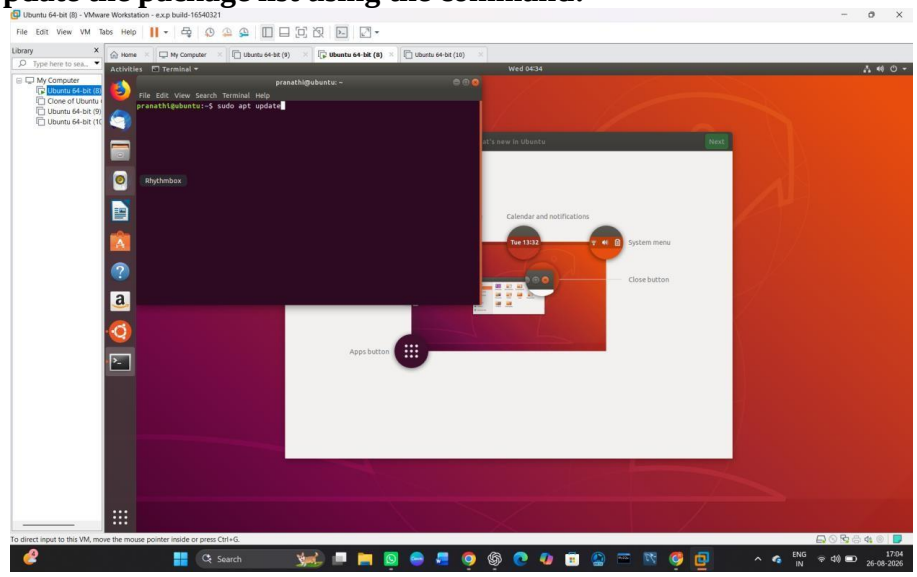
STEP 2: Start the Ubuntu virtual machine.



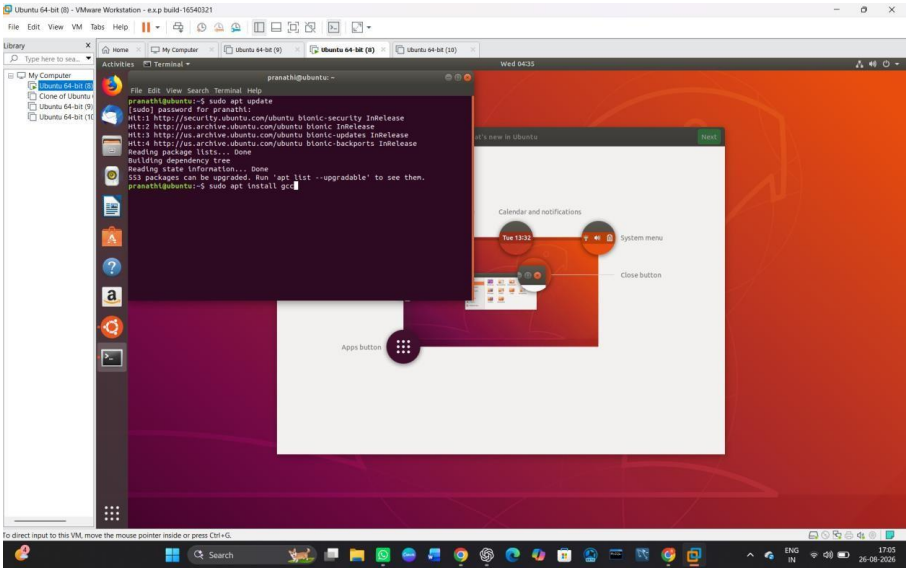
STEP 3: Open the **Terminal** in Ubuntu.



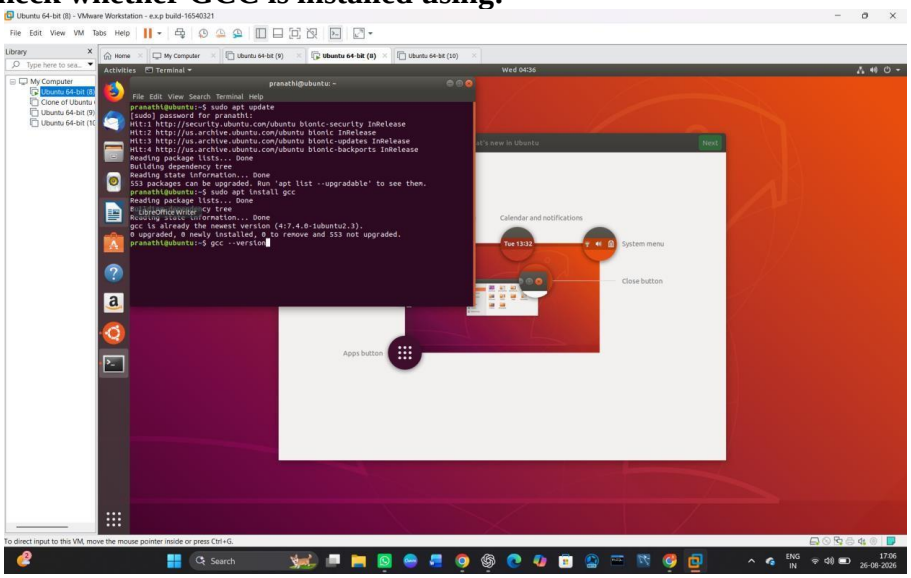
STEP 4: Update the package list using the command:



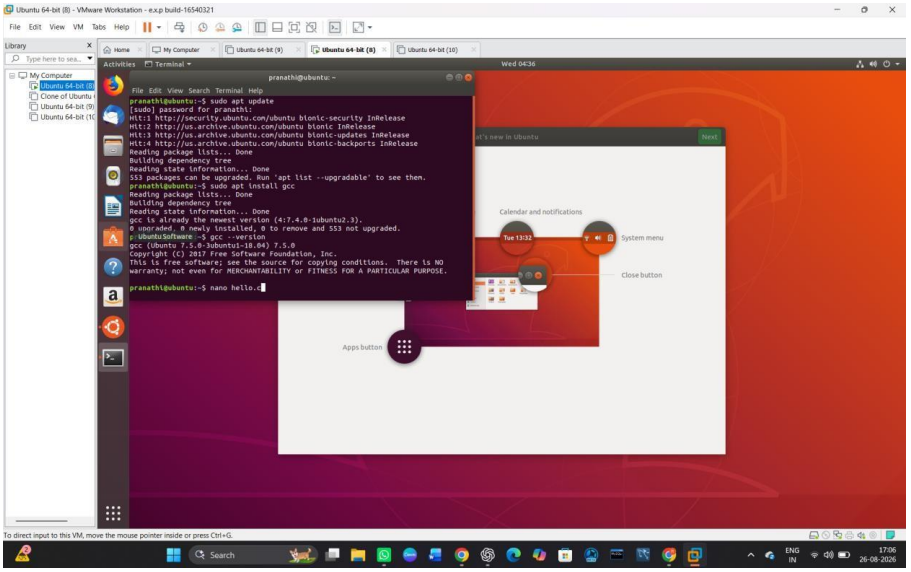
STEP 5: Install the GCC compiler using:



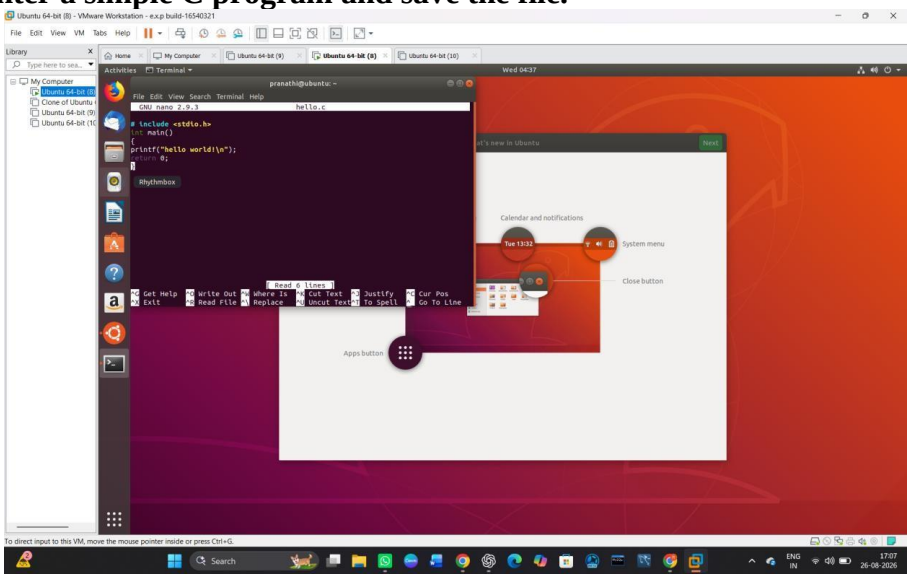
STEP 6: Check whether GCC is installed using:



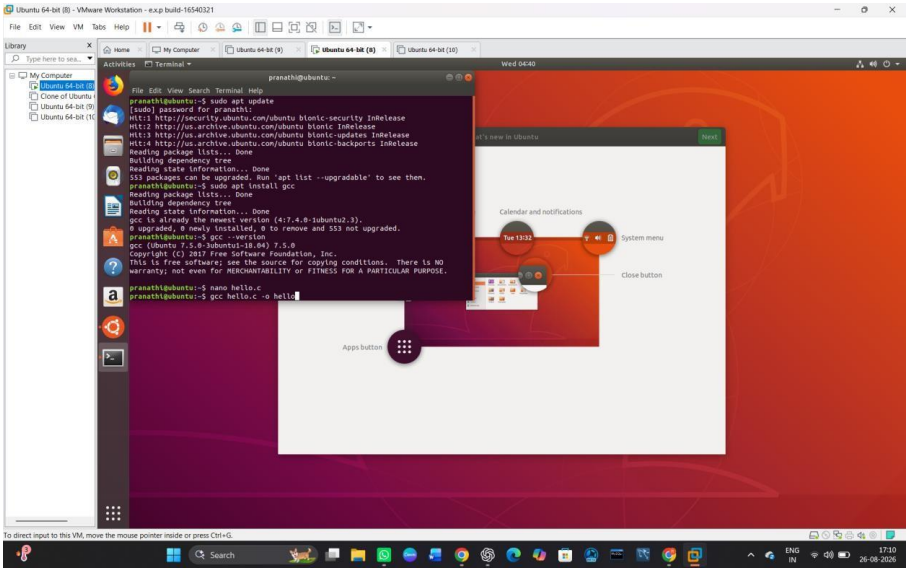
STEP 7: Create a C program using:



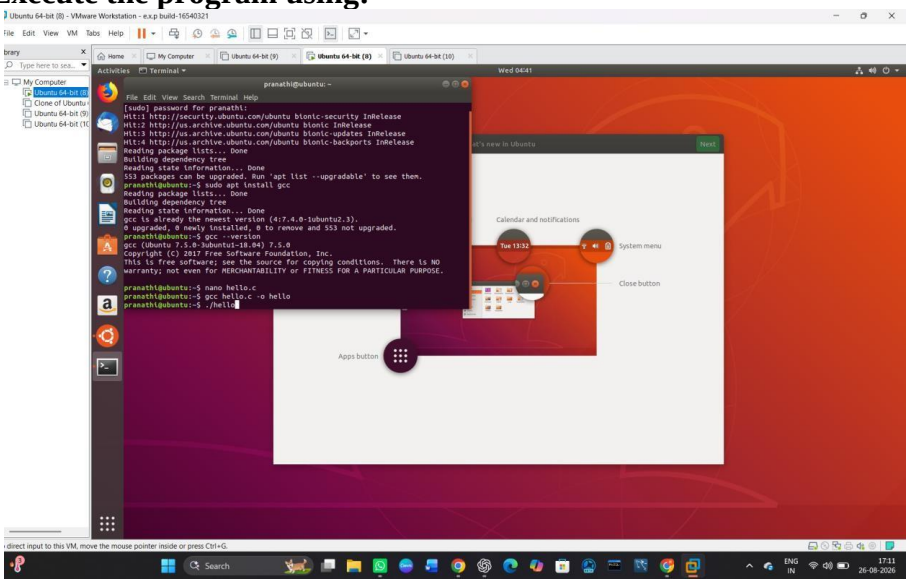
STEP 8: Enter a simple C program and save the file.



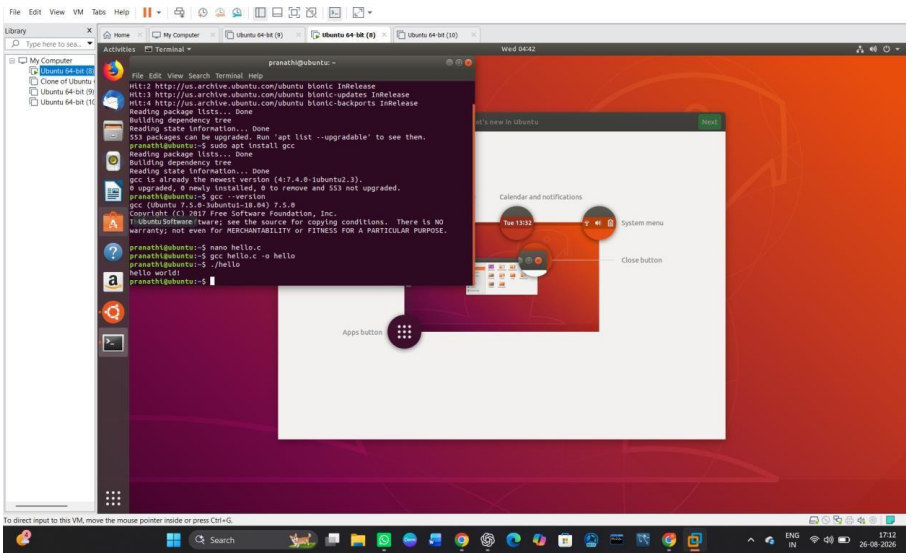
STEP 9: Compile the program using:



STEP 10: Execute the program using:



STEP 11: Succesfully Executed C program



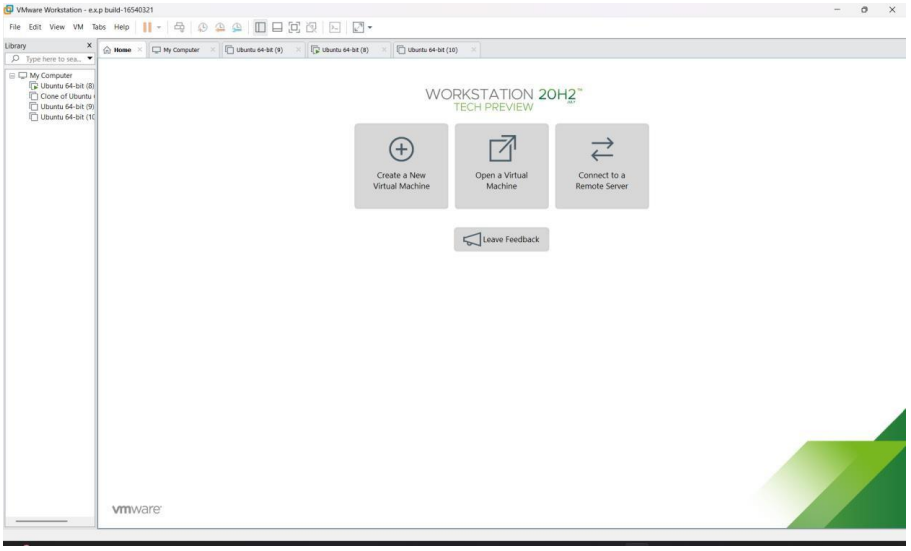
14.Install Virtualbox with different flavours of linux or windows OS on top of windows 10 using custom installation.

AIM:

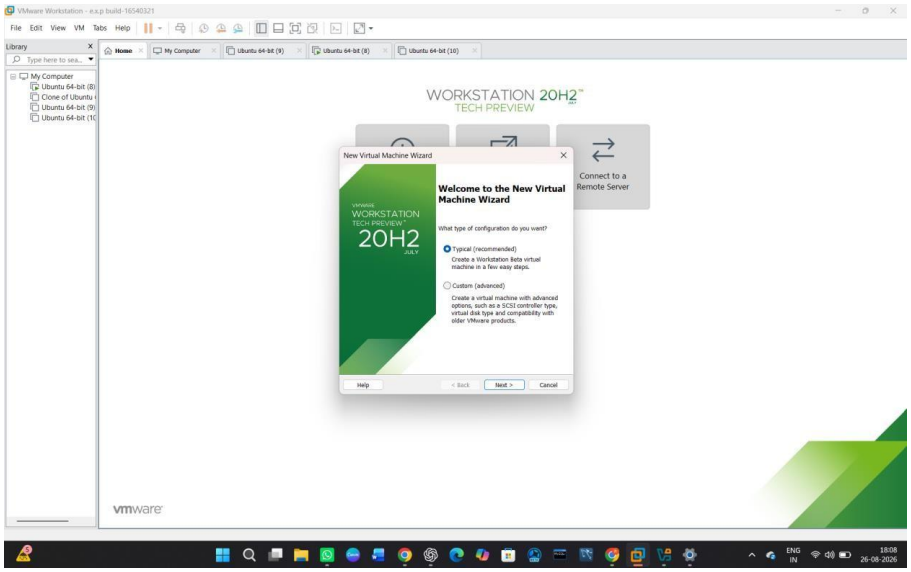
To install Oracle VirtualBox with a different flavour of Linux/Windows Operating System on top of the existing Windows 10 environment using Custom Installation.

PROCEDURE:

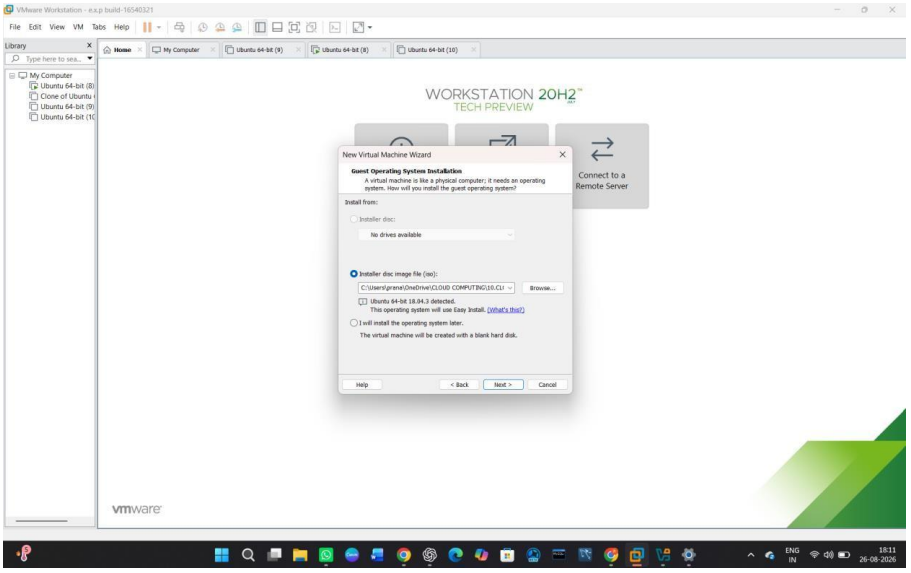
STEP 1: Open VMware Workstation



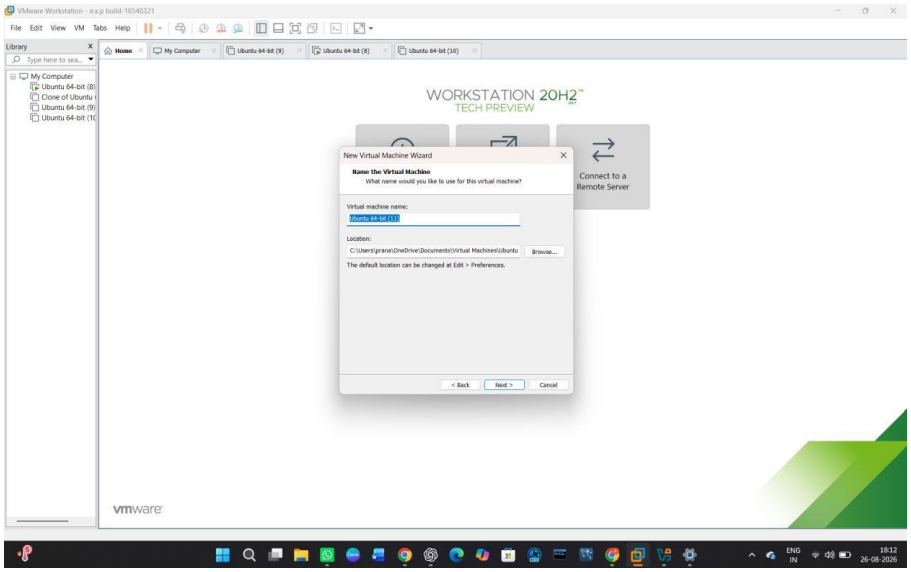
STEP 2: Create a New Virtual Machine



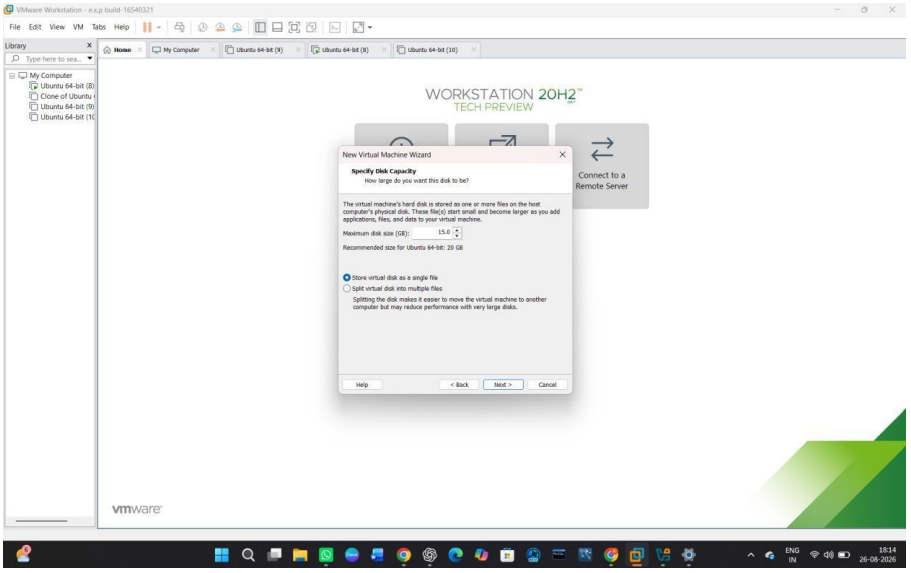
STEP 3: Select Ubuntu ISO



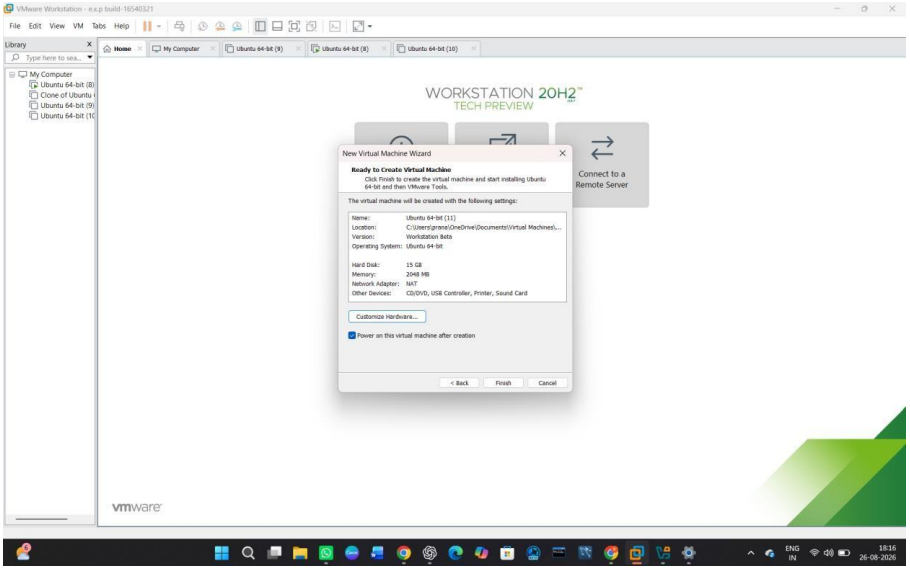
STEP 4: Give the VM a Name



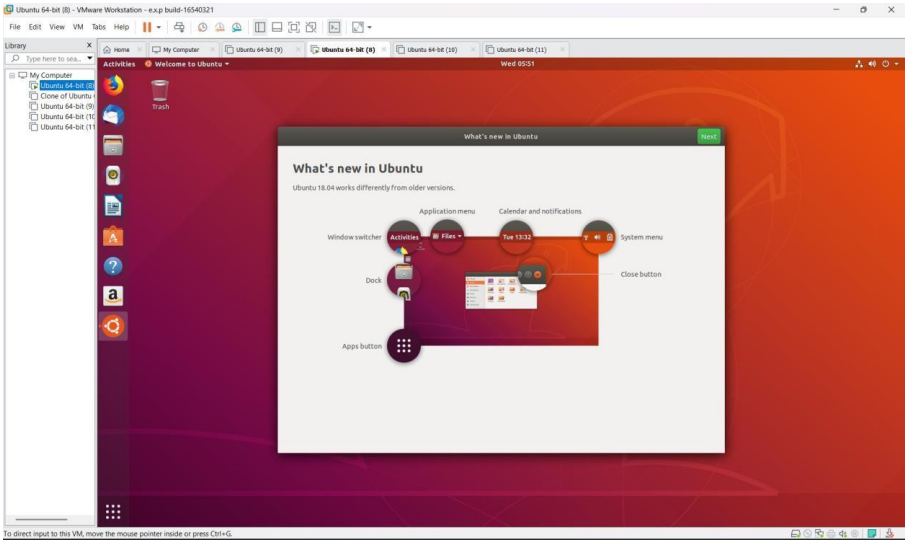
STEP 5: Configure the Virtual Disk



STEP 6: Customize Hardware



STEP 7: Start the Virtual Machine



15.Install Virtualbox/VMware Workstation with different flavours of linux or windows OS on top of windows 7 or 8.

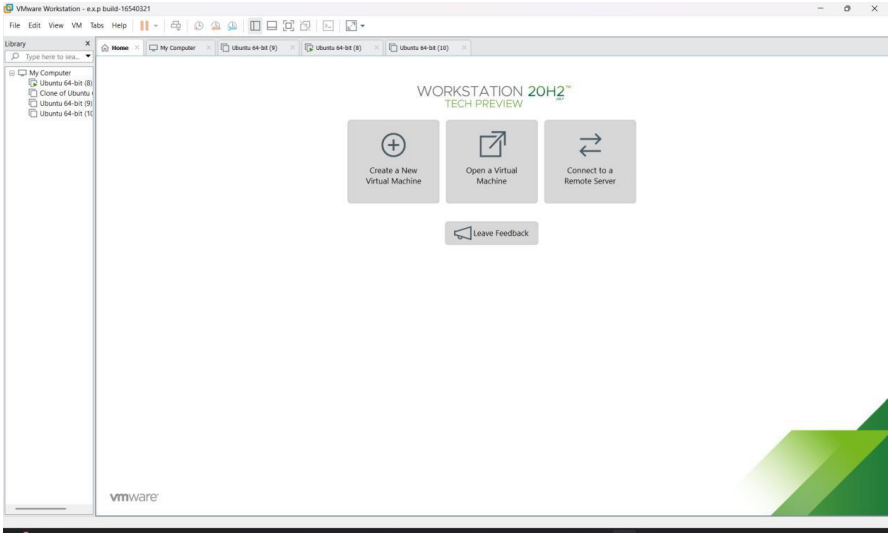
AIM:

To install VMware Workstation and install a different flavour of

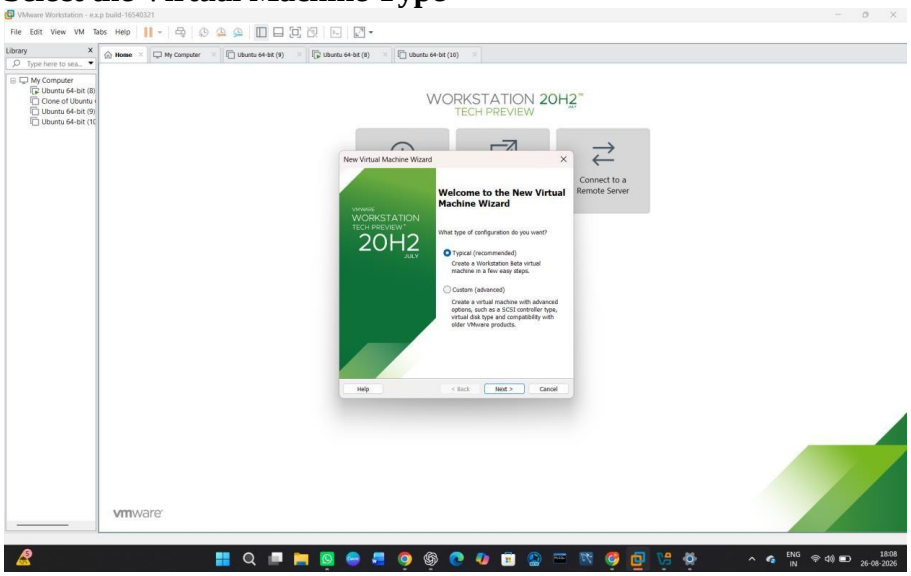
Linux/Windows Operating System on top of the existing Windows 7/8 host environment.

PROCEDURE:

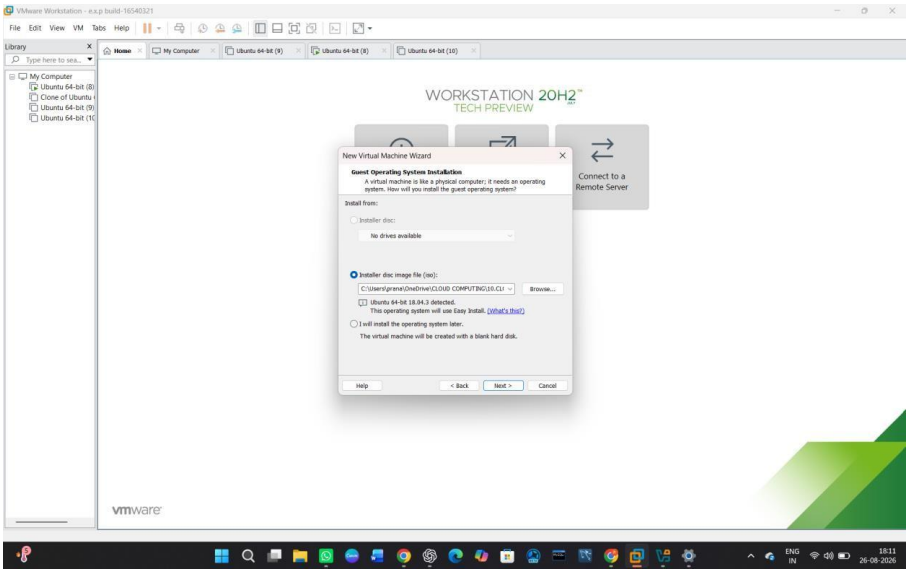
STEP 1: Go to **VMware Workstation.**



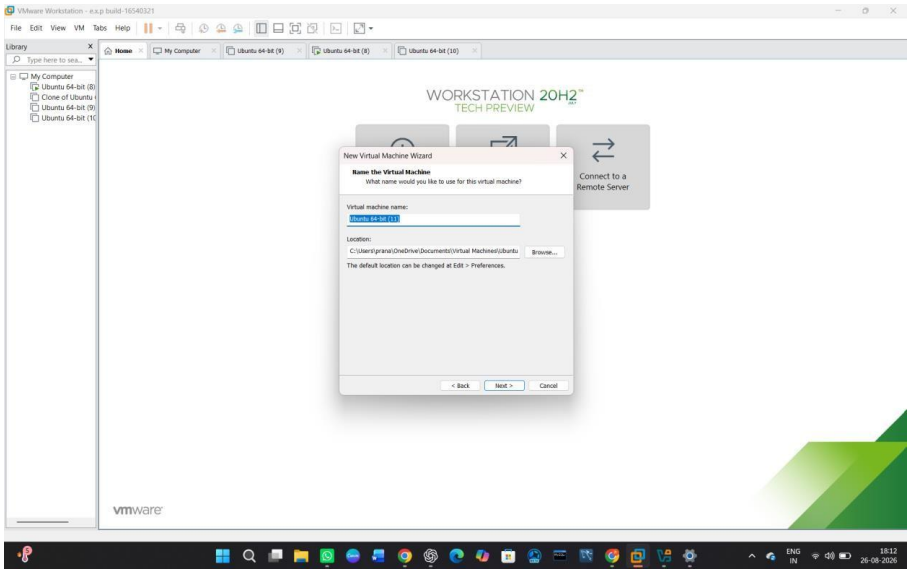
STEP 2 — Select the Virtual Machine Type



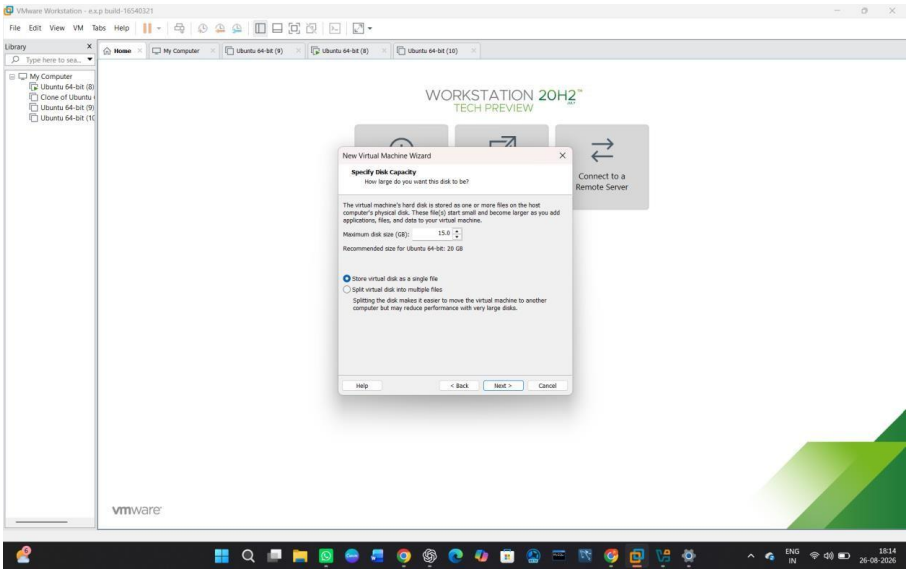
STEP 3 — Select the Ubuntu ISO



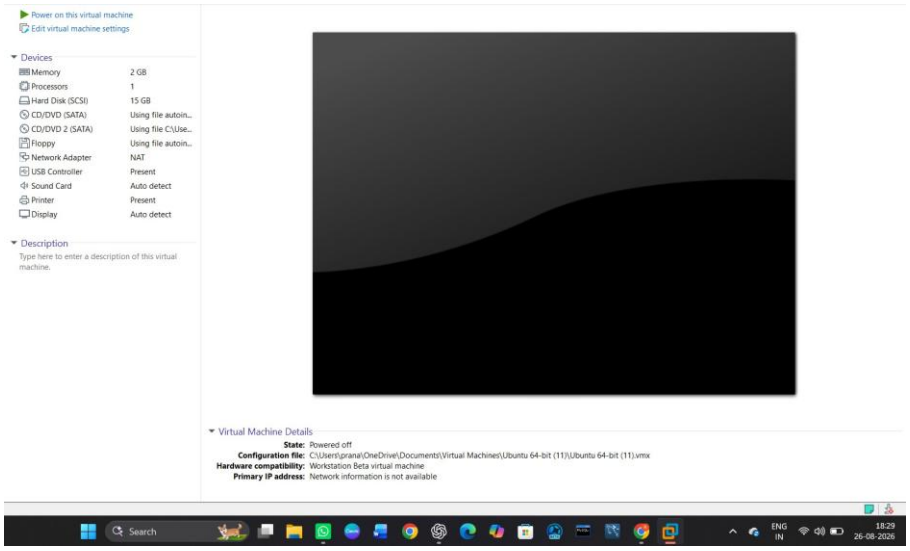
STEP 4 — Name the Virtual Machine



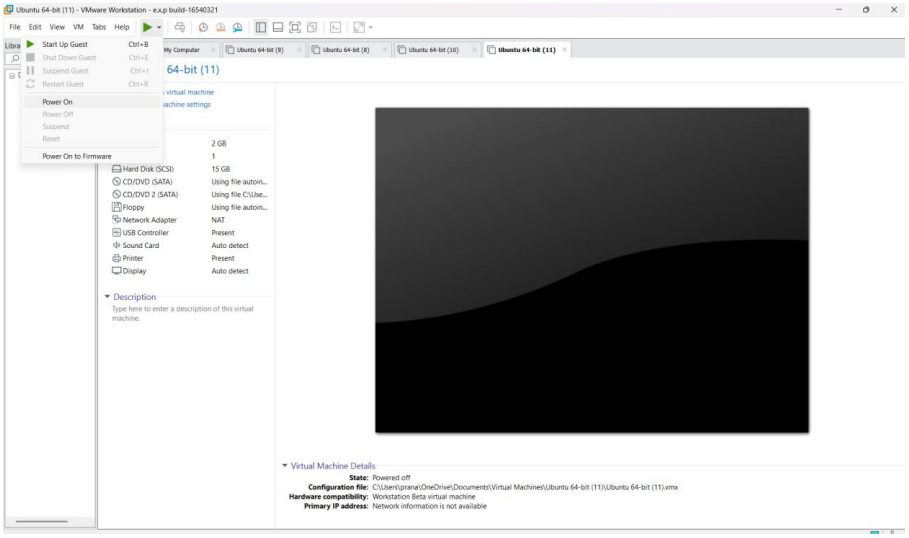
STEP 5 — Configure Disk Capacity



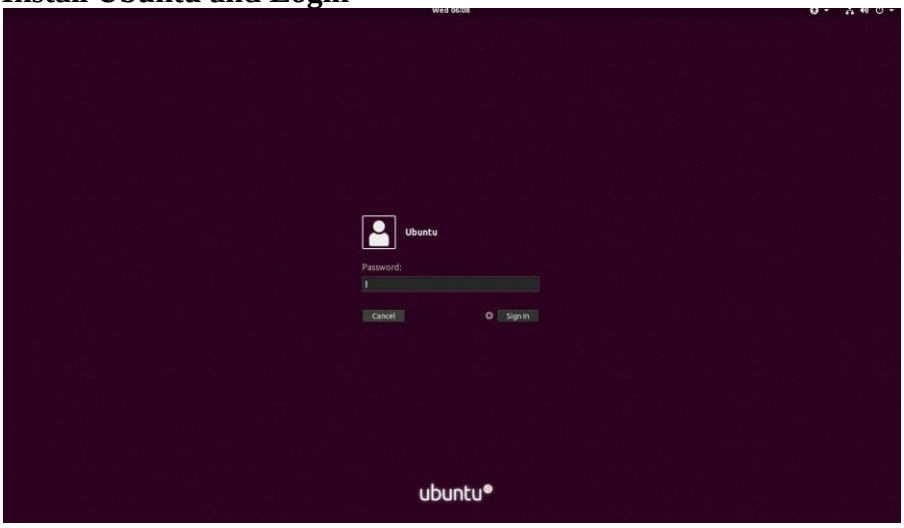
STEP 6 — Customize Hardware



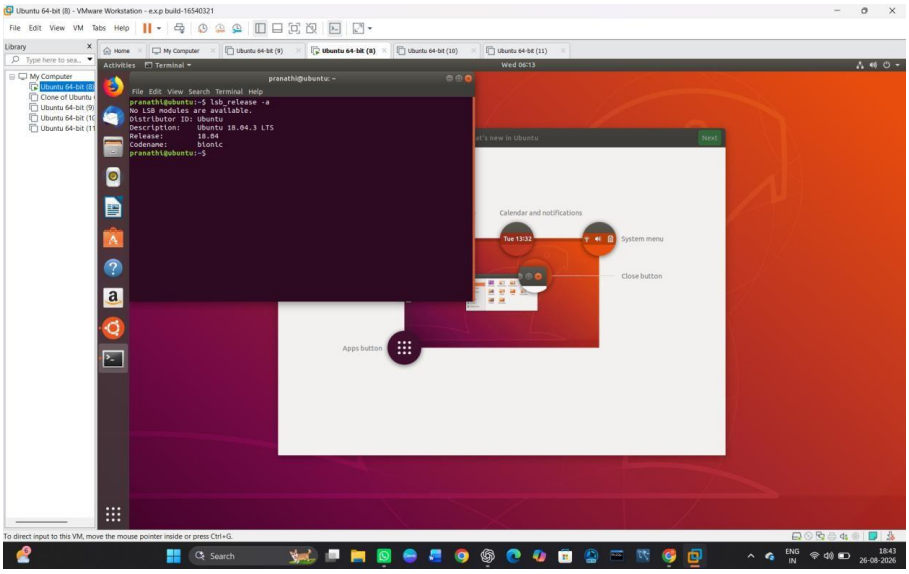
STEP 7 — Power On the Virtual Machine



STEP 8 — Install Ubuntu and Login



STEP 9 — Verify the Installation



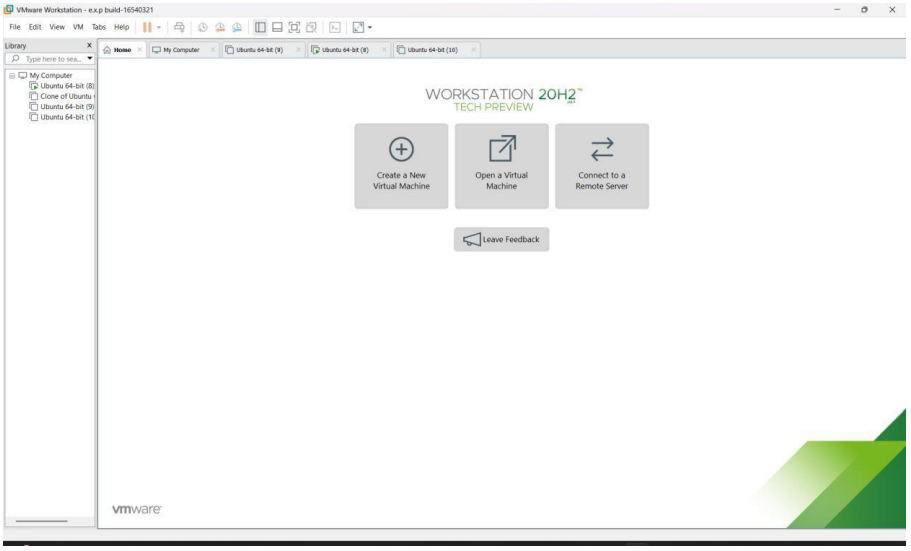
16.To write a procedure to run the virtual machine of different configuration and to check how many virtual machines can be utilized at a particular time.

AIM:

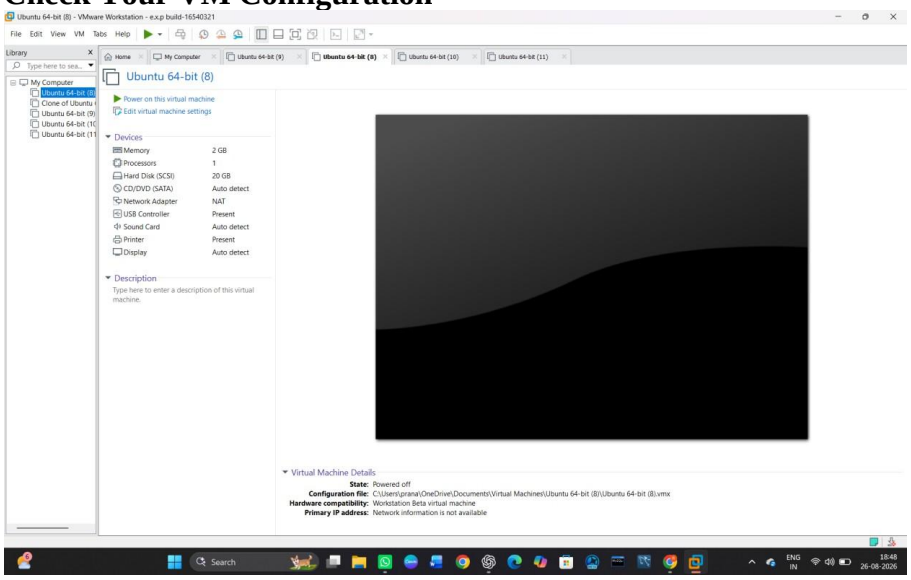
To run virtual machines with different configurations and determine how many virtual machines can be utilized simultaneously on a host system.

PROCEDURE:

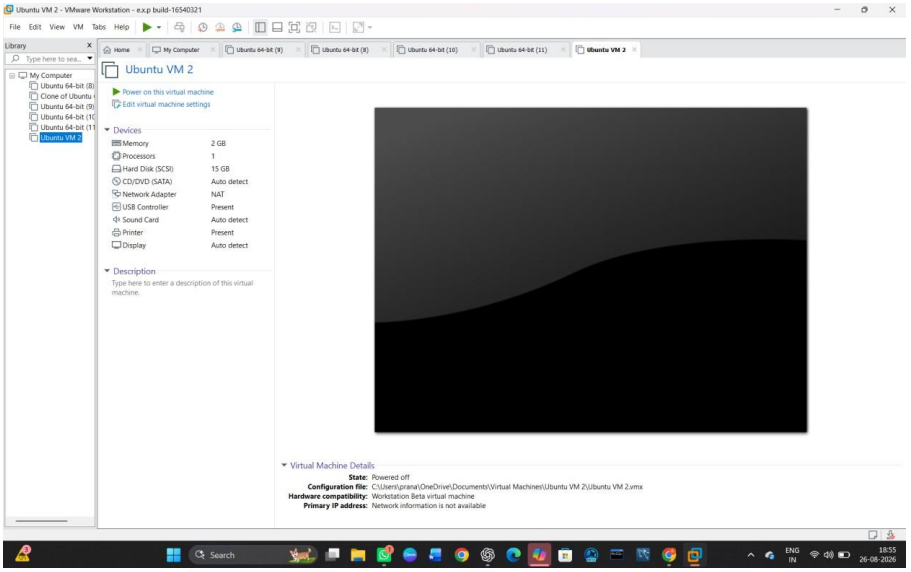
STEP 1— Go to **VMware Workstation**.



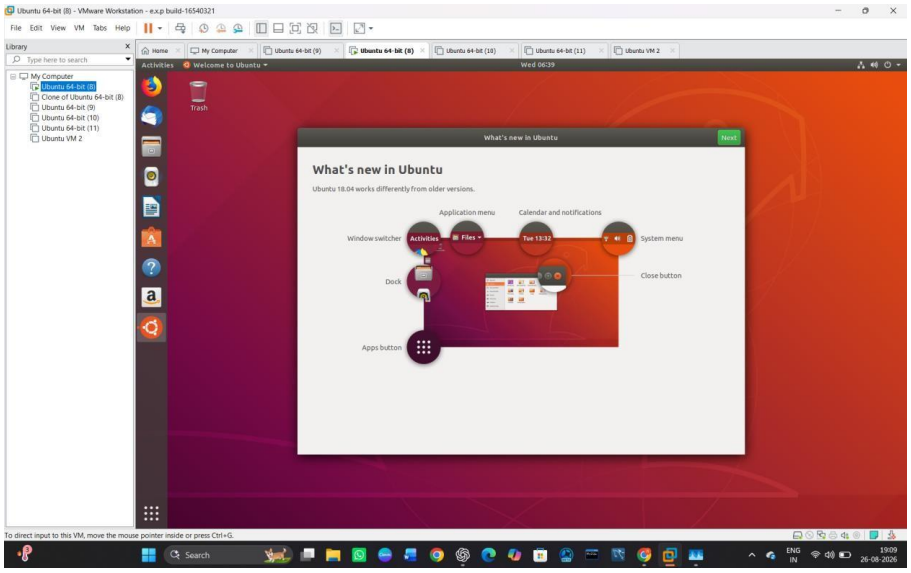
STEP 2 — Check Your VM Configuration



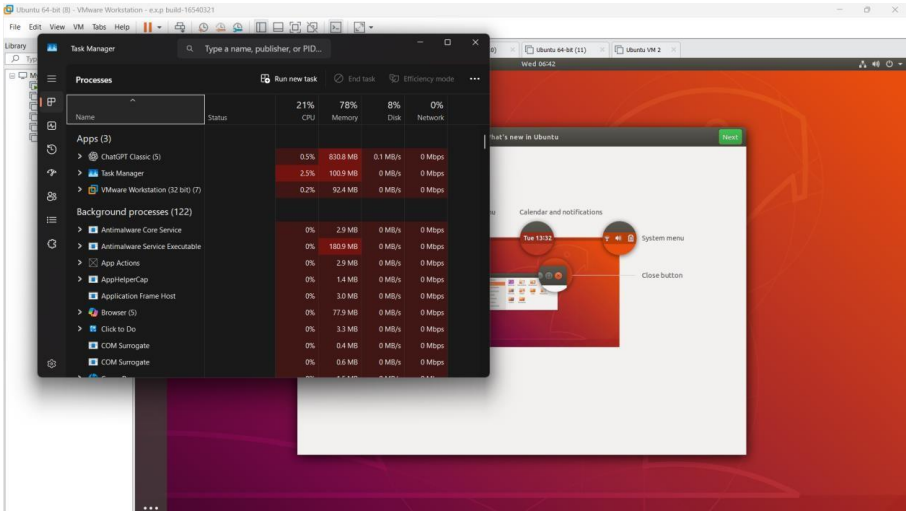
STEP 3 — Create the Second Virtual Machine



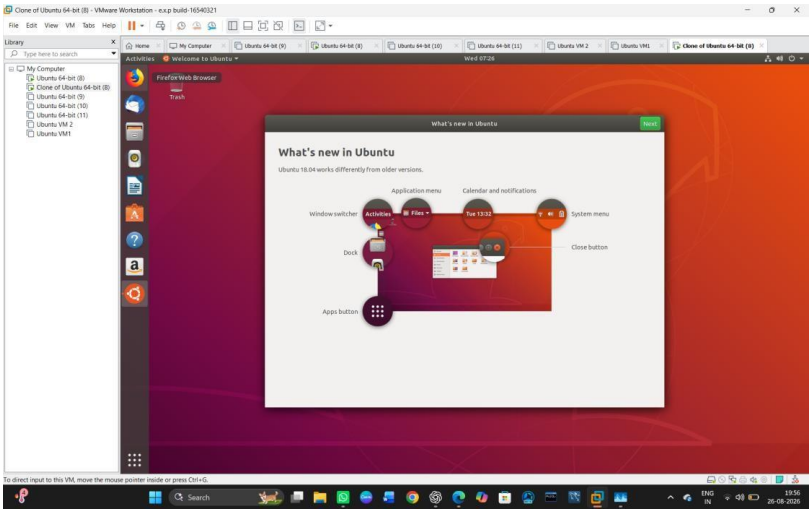
STEP 4 — Start the First VM



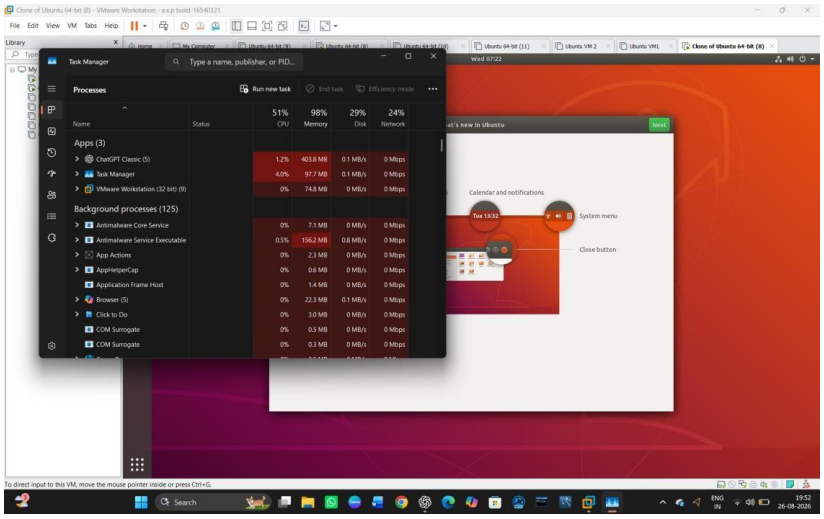
STEP 5 — Check the Host Resources



STEP 6 — Start the Second VM



STEP 7 — Check the Second VM



Result

Two virtual machines were successfully run simultaneously using VMware Workstation. The CPU and memory utilization were monitored using Windows Task Manager. When two VMs were running, memory utilization reached 98%, showing that the available system resources limited the number of VMs that could be utilized simultaneously.

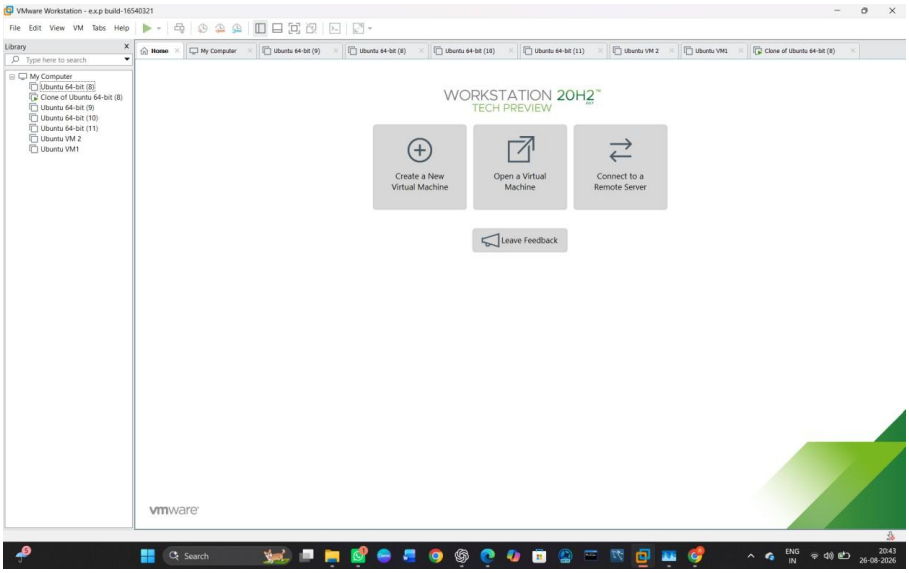
17.Write a Procedure To Attach Virtual Block To The Virtual Machine And Check Whether It Holds the Data Even After The Release Of The Virtual Machine

AIM:

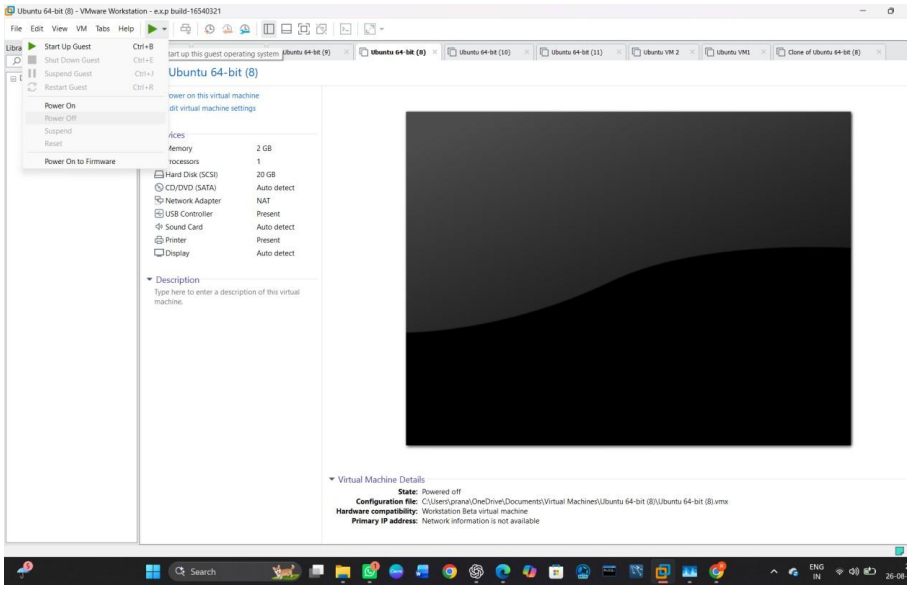
To attach a virtual block storage disk to a virtual machine, store data in it, release/detach the virtual machine, and verify that the data is retained.

PROCEDURE:

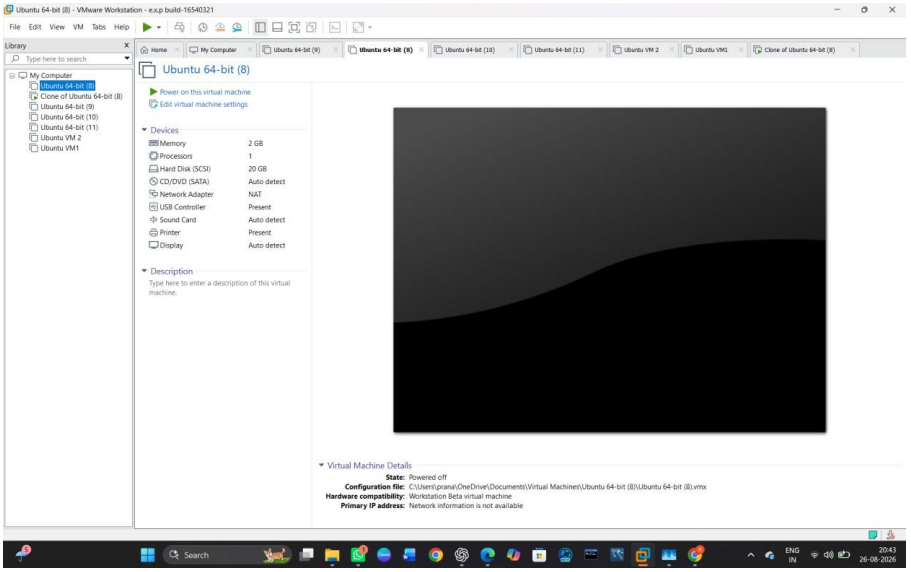
STEP 1: Open **VMware Workstation**.



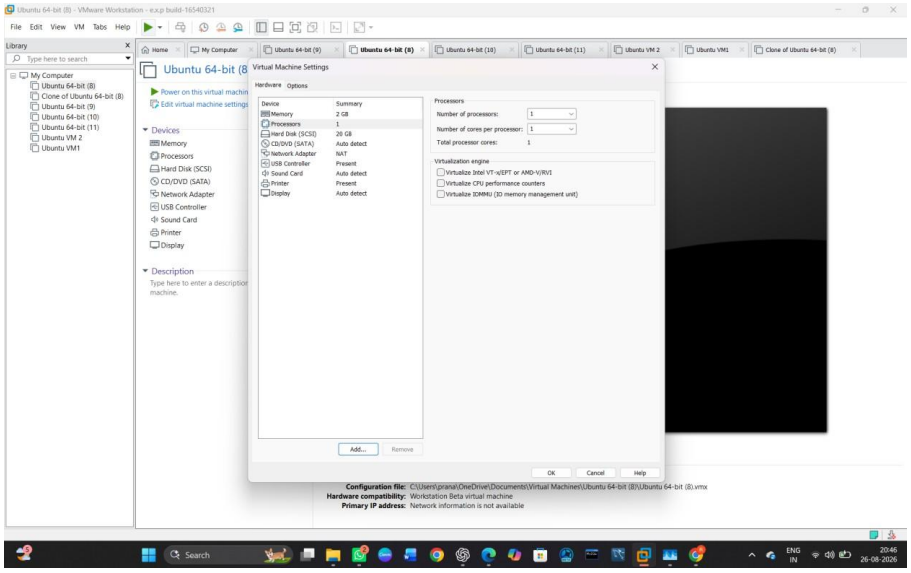
STEP 2: Select the Ubuntu Virtual Machine and Power Off Ubuntu



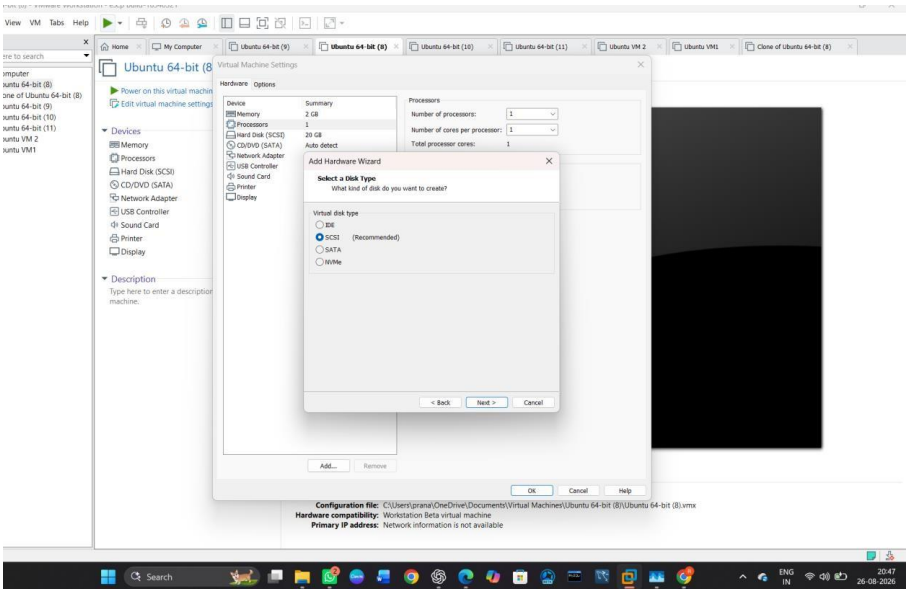
STEP 3 — Open Virtual Machine Settings



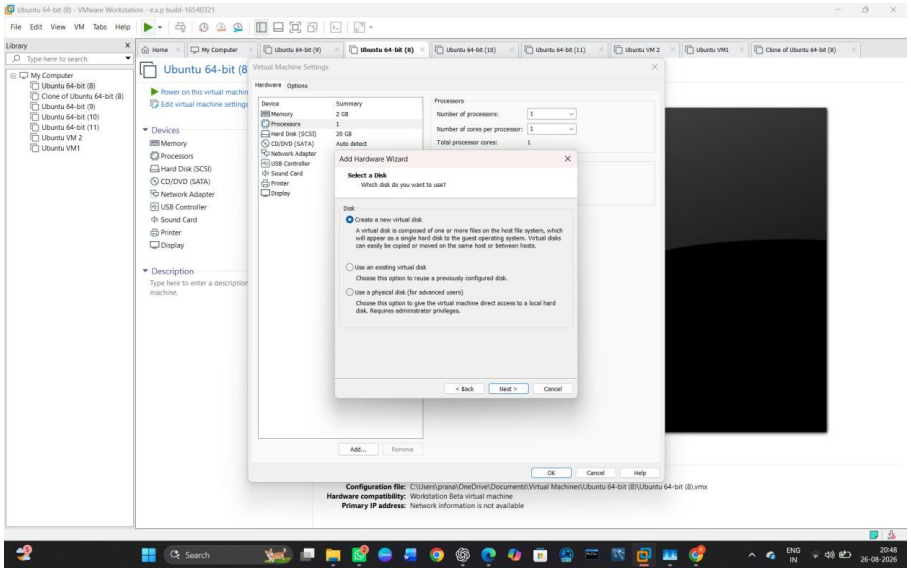
STEP 4 — Add a New Virtual Hard Disk



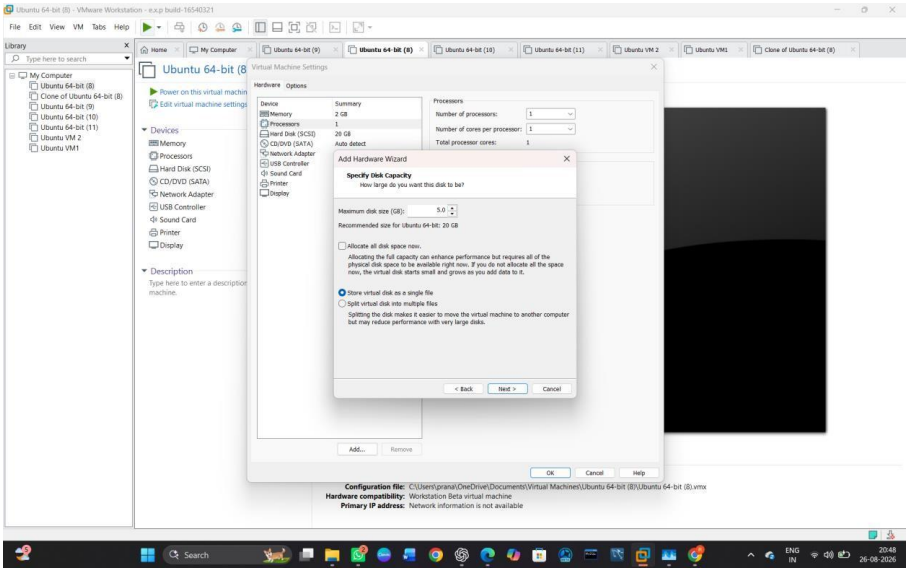
STEP 5 — Select Disk Type



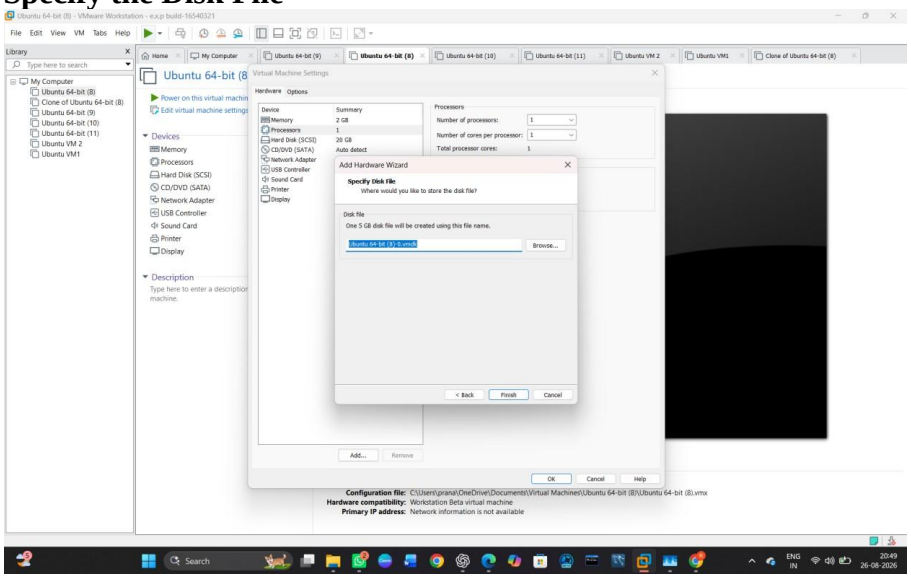
STEP 6 — Create a New Virtual Disk



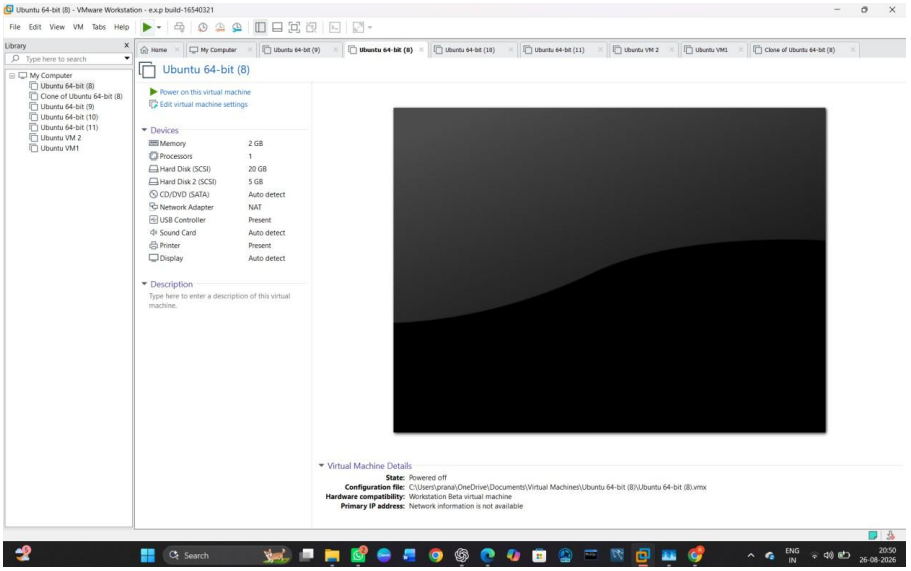
STEP 7— Set Disk Capacity



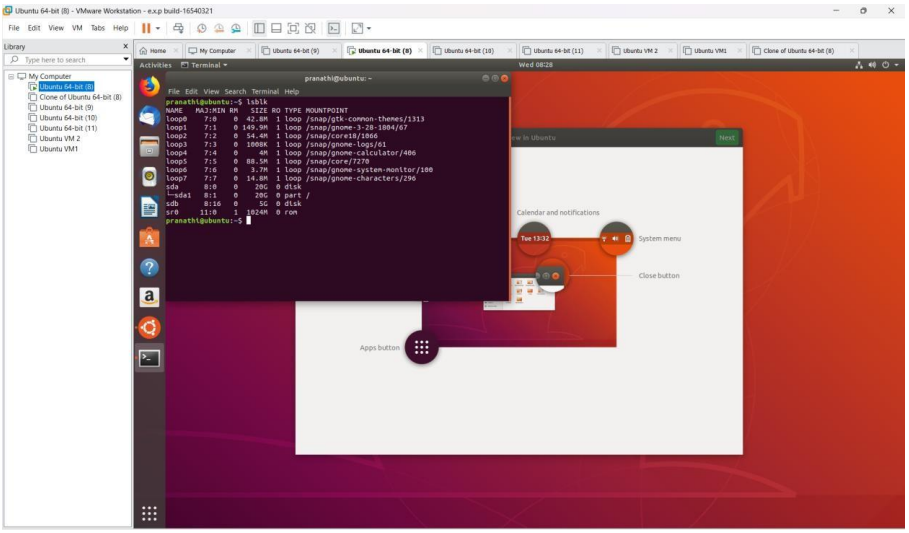
STEP 8 — Specify the Disk File



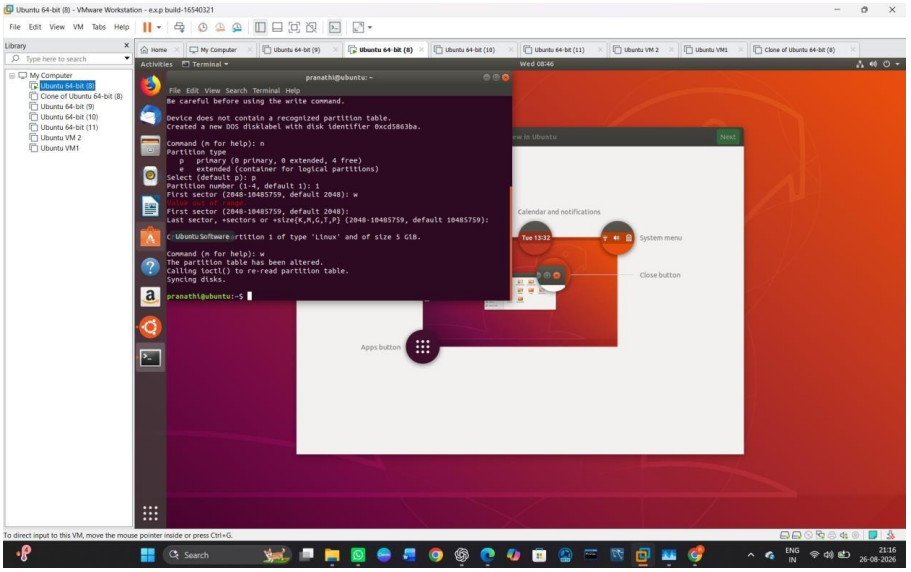
STEP 9 — Confirm the New Disk



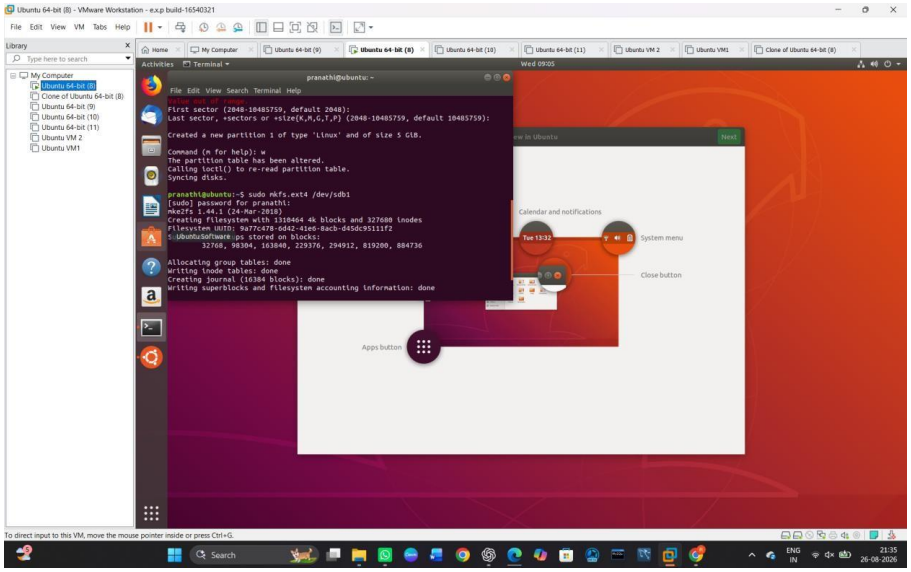
STEP 10 — Check the New Virtual Disk



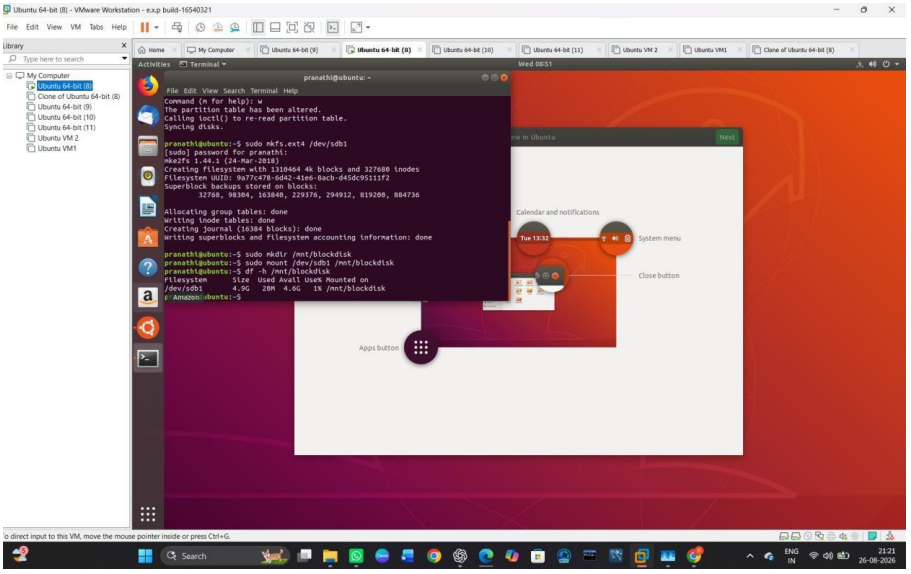
STEP 11 — Create a Partition on the New Disk



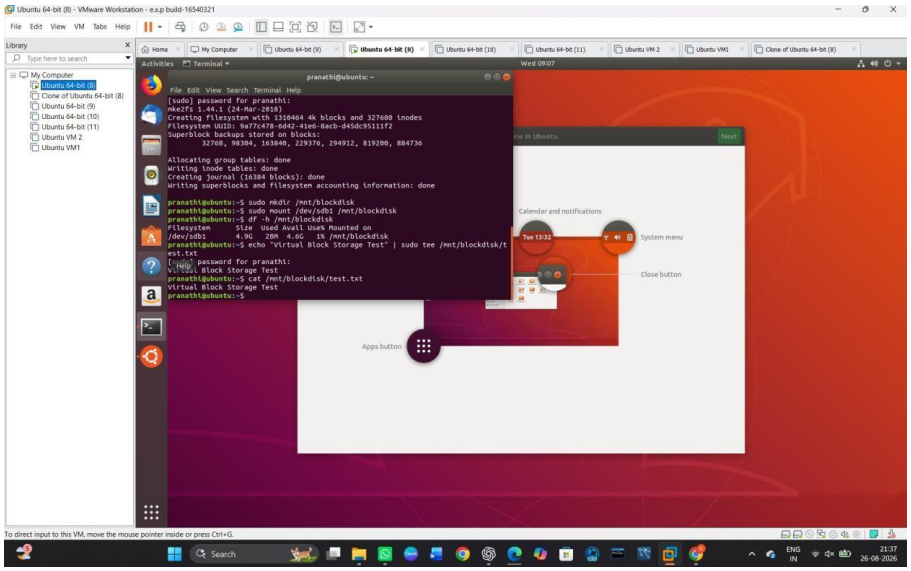
STEP 12 — Format the New Partition



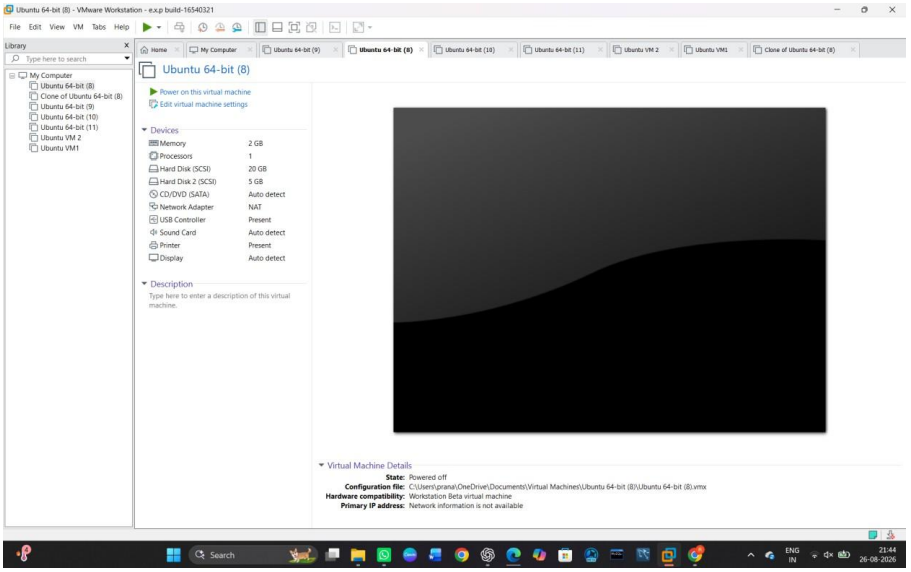
STEP 13 — Create a Mount Point



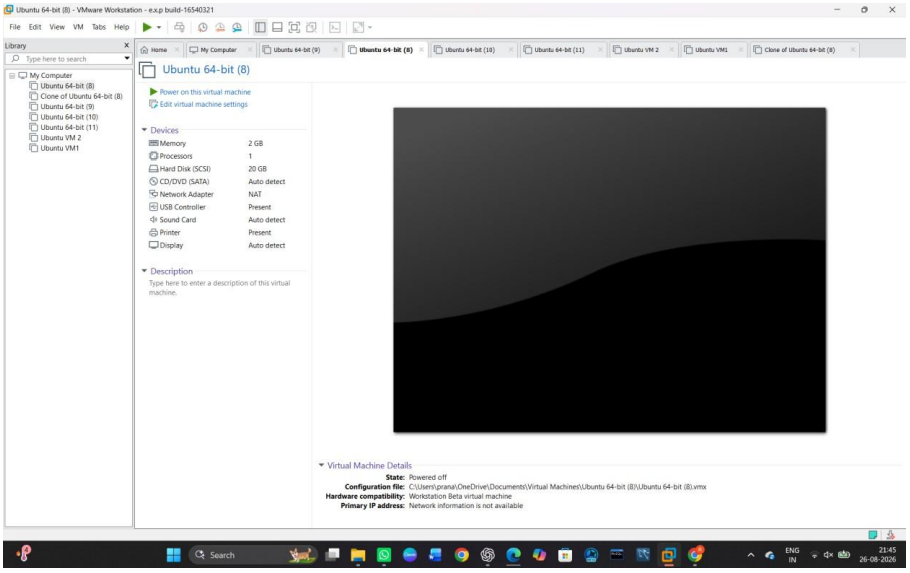
STEP 14 — Create Test Data



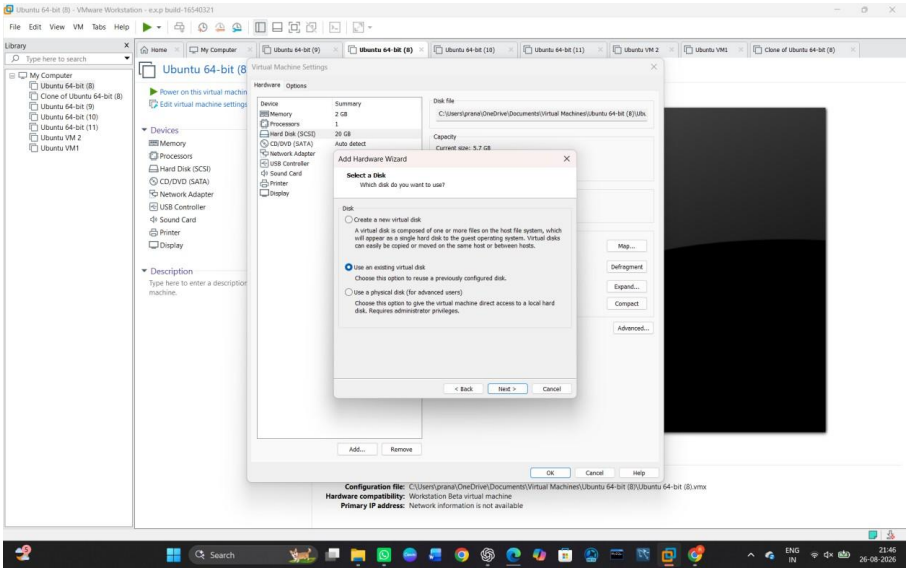
STEP 15 — Shut Down the Virtual Machine



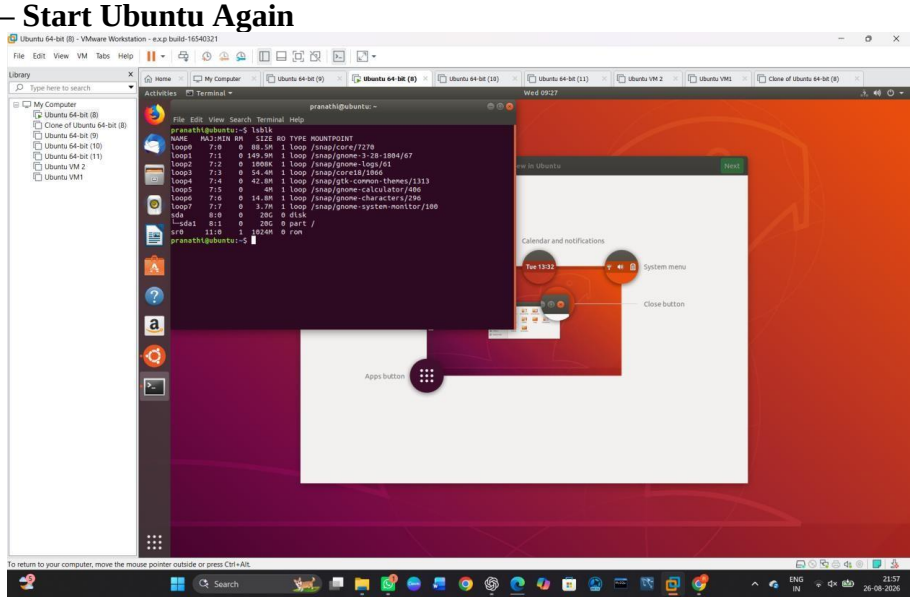
STEP 16 — Detach the Virtual Disk



STEP 17 — Attach the Existing Virtual Disk



STEP 18 — Start Ubuntu Again



Result

The virtual block disk was successfully attached to the virtual machine. Data was stored on the disk, the disk was detached and reattached, and the previously stored data was successfully recovered. Hence, the virtual block storage retains data even after the release of the virtual machine.

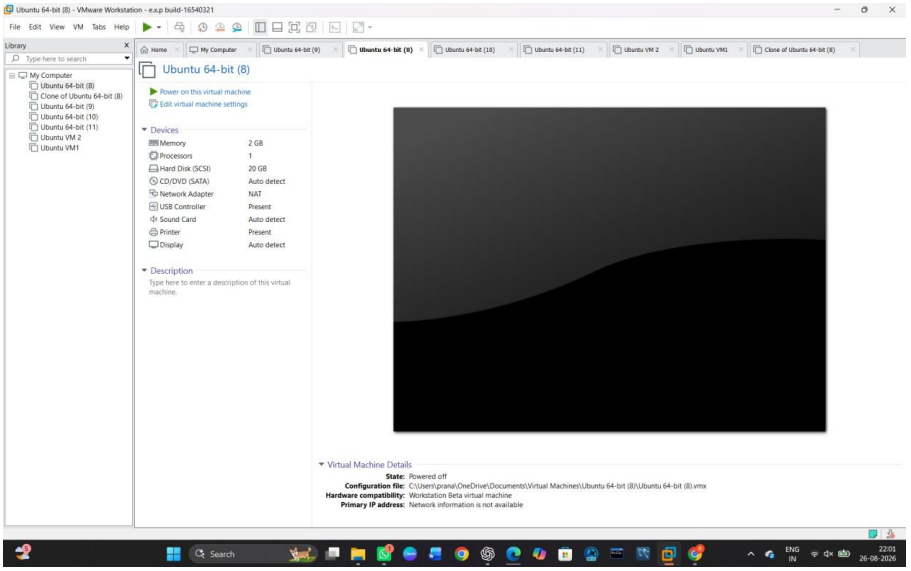
18.To showcase the virtual machine migration based on the certain condition from one host to the other.

AIM:

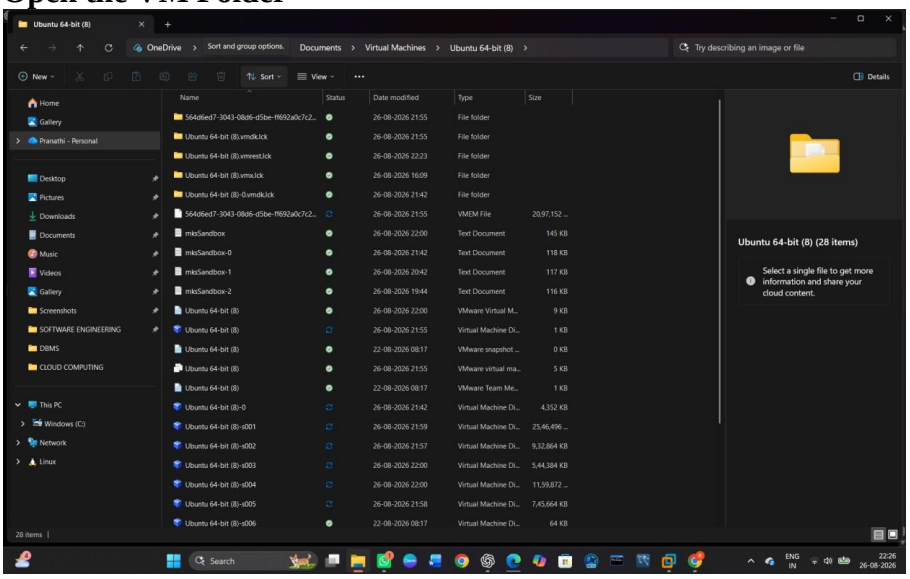
To showcase virtual machine migration from one host to another based on a certain condition.

Procedure:

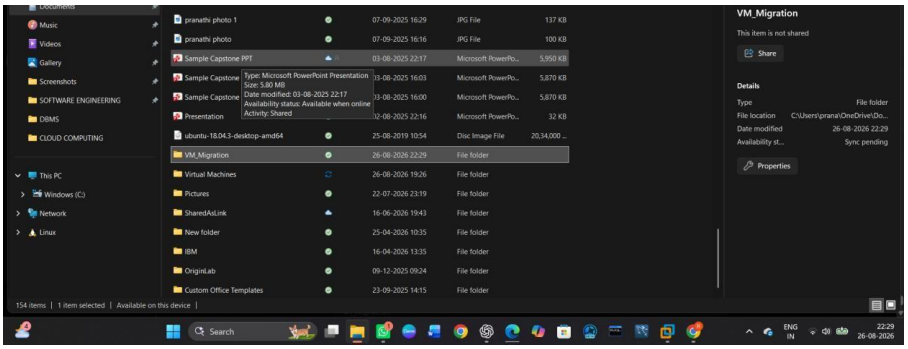
STEP 1 — Prepare the Source VM



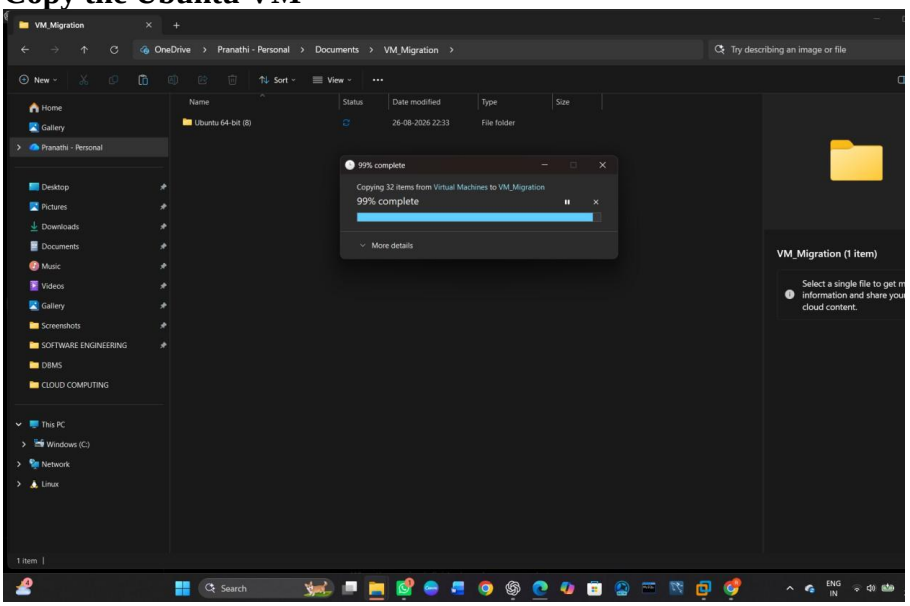
STEP 2 — Open the VM Folder



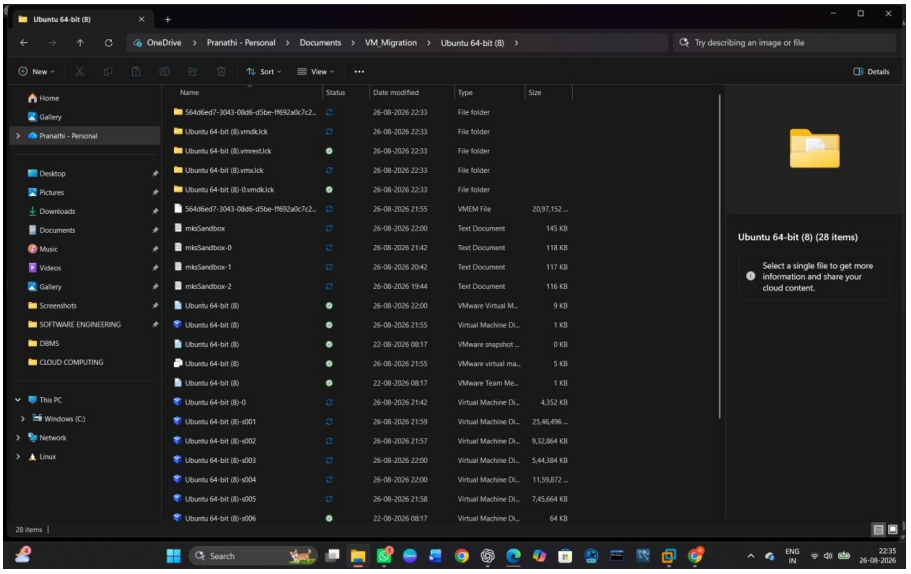
STEP 3 — Create the Destination Folder



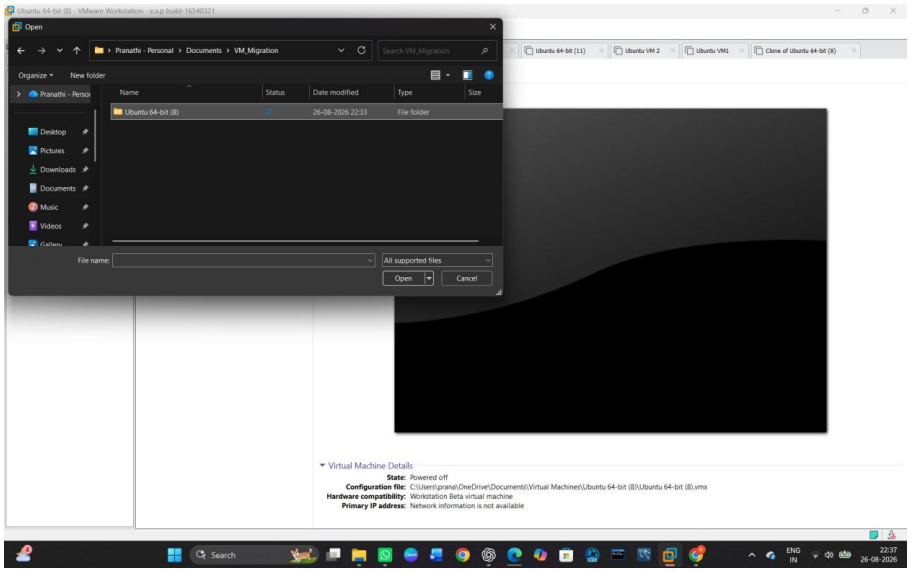
STEP 4 — Copy the Ubuntu VM



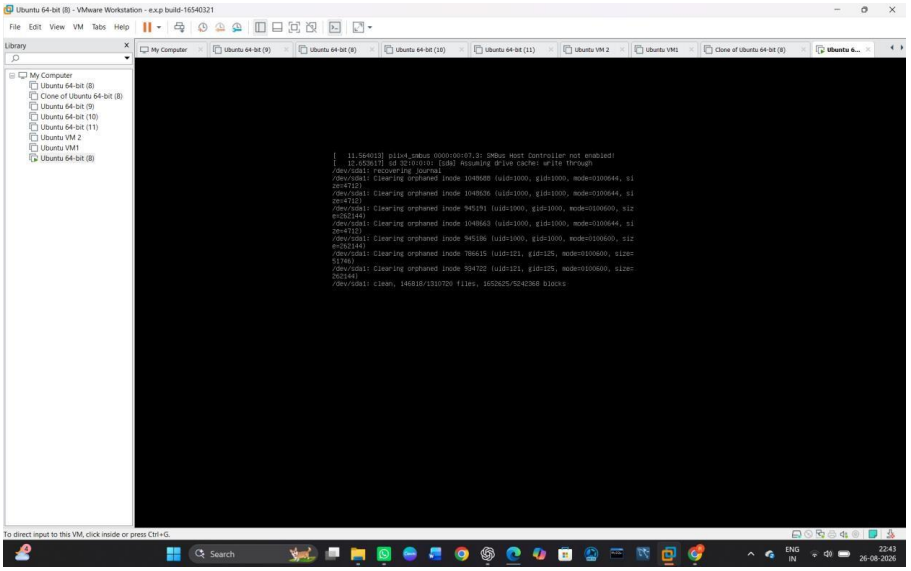
STEP 5 — Open the Copied VM Folder



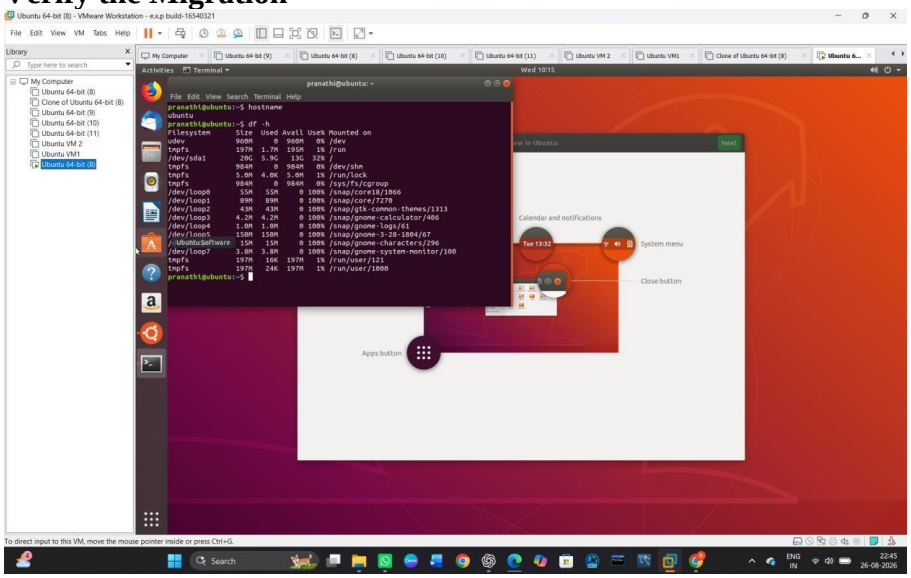
STEP 6 — Load the migrated VM in VMware Workstation.



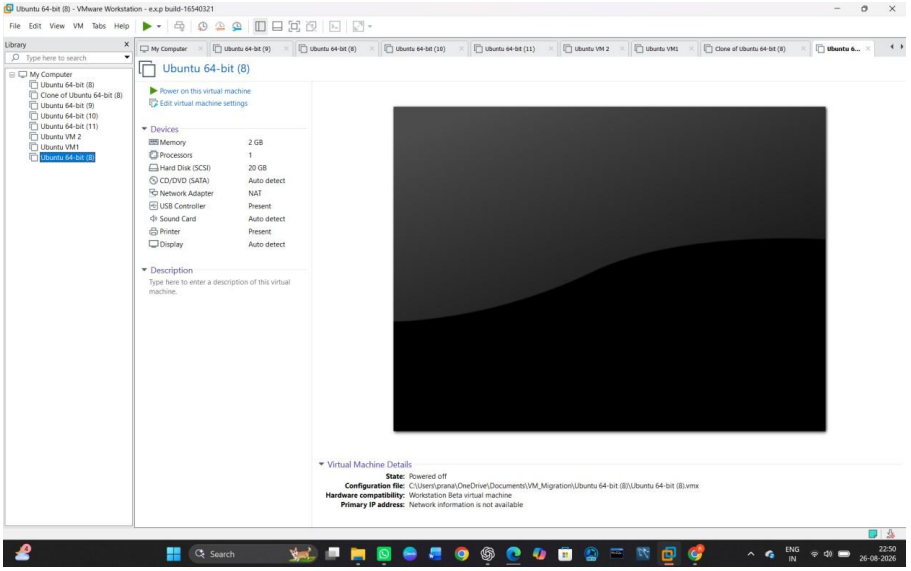
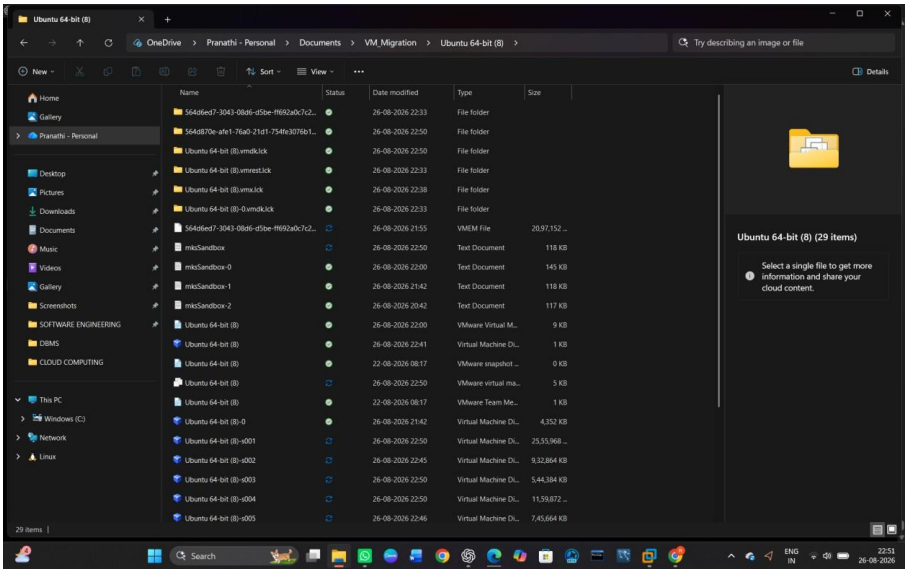
STEP 7 — Start the Migrated VM



STEP 8 — Verify the Migration



STEP 9 — Shut Down the Migrated VM



STEP 10 — Final Verification