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Course Name: Cloud Computing

Course Code: 1540

Experiment - 1

Aim:

Create a simple Car Booking system using Zoho Creator on a cloud service provider to demonstrate software as a service (SaaS) model for efficient and accessible car reservation.

Procedure

- Sign up for Zoho Creator: Create an account on Zoho Creator.
- Create an Application: Build new application for car reservation.
- Database Design: Define tables for cars, customers with relevant ^{fields} for Design.
- Create forms for booking, customer registration, workflow Automation: Set up workflows for tasks like email.
- User Access Control: Configure roles and permission for secure ^{access}.
- UI Customization: Customize the user interface for user-friendly ^{experience}.
- Cloud Service Integration: Connect to cloud service like Google Maps or payment gateways.
- Testing and Debugging: Thoroughly test and fix any issues.
- Deployment: Publish the system on the cloud.
- User Training: Train staff or users on system usage.

Outcome:

The application named car booking has been successfully created and deployed using Zoho Creator.

roomimohamed921 - car booWhatsAppslot-c_CSA1540_FSP-55E - Gocloud-computing/Cloud comcreatorapp.zoho.in/roomimohamed92/car-booking#Cab_Booking

Car BookingTrial expires in 13 days UpgradeEdit this applicationHelp

car booking

Cab Booking

Book a Cab

Bookings

roomi

Book a Cab

Name *

First NameLast Name

Email Id *

Mobile Number *

+91

81234 56789

Gender *

Male

Female

Booking Date *

19-Oct-2023

Travel Date *

dd-MMM-yyyy

Pickup Time *

-Select-

Pickup Address *

Address Line 1

Address Line 2

City / DistrictState Province

-Select-

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Experiment - 2

Aim:

Develop a simple flight Reservation system using Zoho creator as a cloud service provider to demonstrate software as a service (SaaS) model for efficient and accessible flight booking.

Procedure:

Sign up for Zoho Creator: Register for a Zoho creator account and set up your flight Reservation system application.

Data configuration: Define your data structure with tables for flights, Passengers and Reservations.

Form Development: Create user friendly forms for flight booking, passengers registration and reservation management.

Workflow Automation: Implement automated workflows for tasks like sending confirmations, updating flight availability and management reminders.

Access control: Ensure data security by configuring user roles and permissions for controlled access.

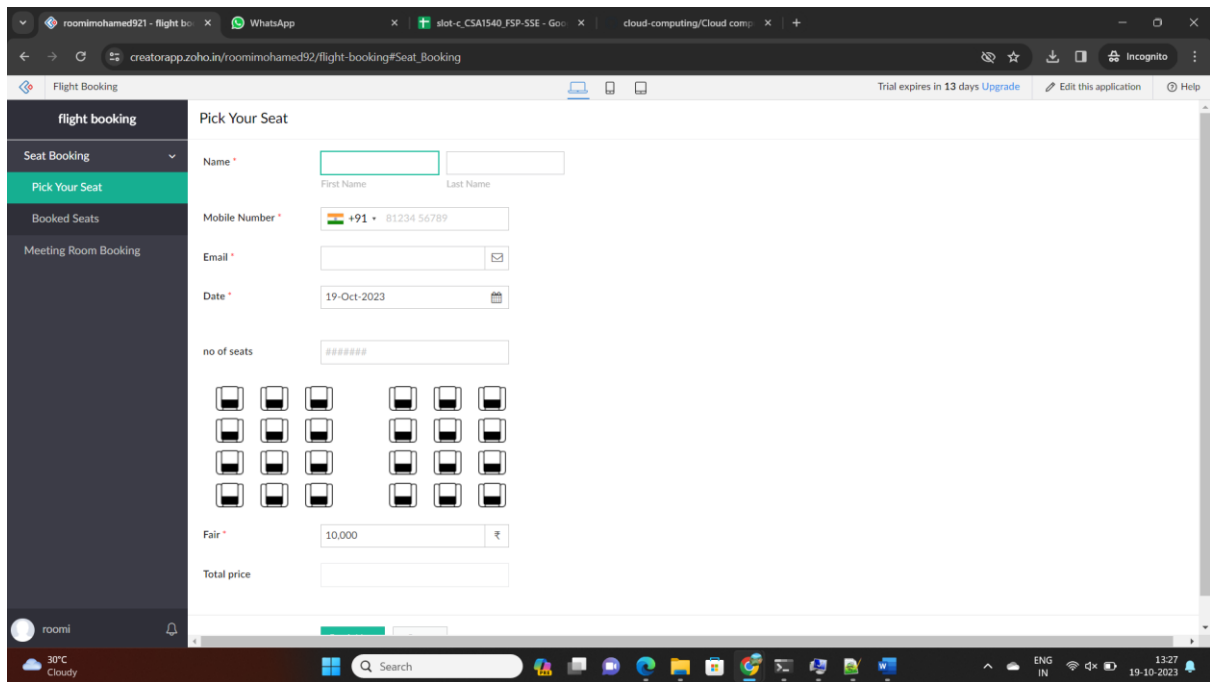
User Interface Enhancement: Customize the UI to deliver an intuitive and branded user experience.

Testing and optimization: Rigorously test the system and optimize it to resolve any issues.

Deployment and Accessibility: Deploy your flight Reservation system on the chosen cloud service provider.

Output:

The application named flight booking has been successfully created and deployed using Zoho creator.



Experiment - 3

Aim:

Develop a cloud based software application for the Property Buying and Rental process in cloud. The software is a service (SaaS) to streamline property transaction and enhance the user experience.

Procedure:

Cloud Service Provider Selection: Choose a cloud service provider (eg: AWS, Azure) for hosting your property management application.

Design Database: Create a database schema to store property details, user profiles, rental agreements and transaction records.

User registration: Develop user registration and authentication features to ensure secure access to the application.

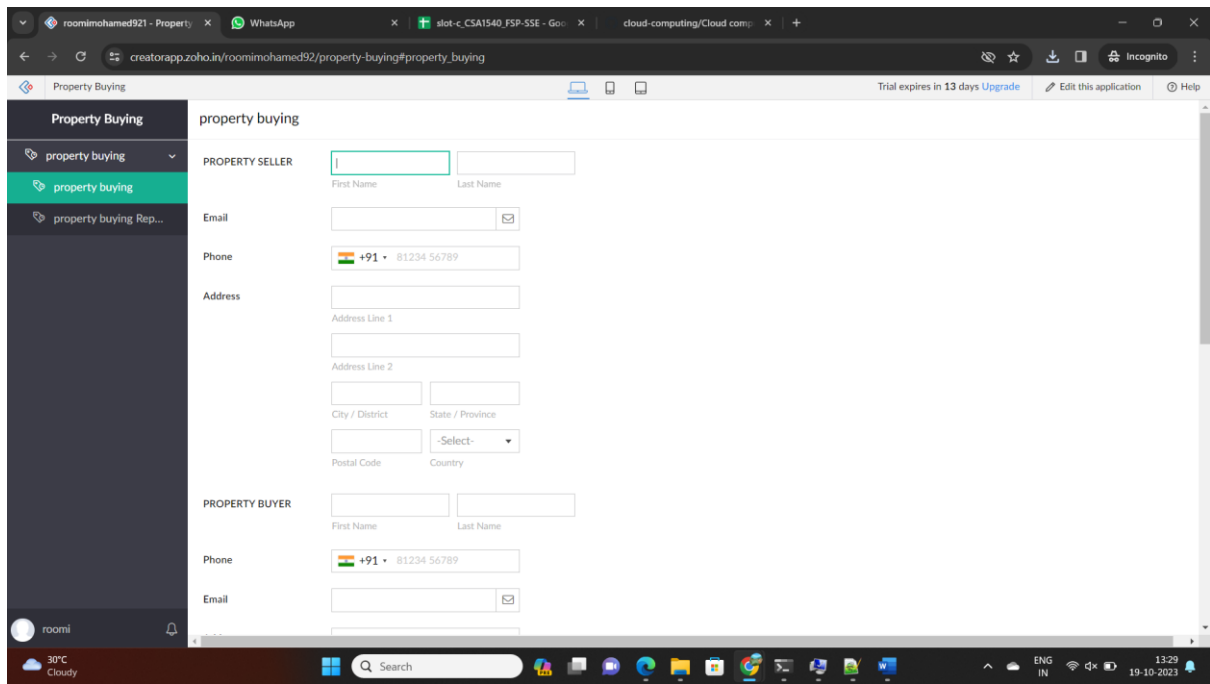
Property Listing: Design a user friendly interface for property listing, enabling users to search filter.

Geographic and location: Integrate geolocation and map features to provide users with the location of properties.

Deployment: Deploy the application on your chosen cloud service provider.

Outcome:

The application ~~will~~ **will** Property buying and rental has be successfully created.



Experiment - 4

4) Aim:

Create a cloud-based software application for the Library Book Reservation System of SIMATS library using cloud providers to share.

Procedure:

Select a cloud Service Provider: Choose a cloud service provider (eg. AWS, Azure, Google cloud) to host the library Book Reservation system.

Design Database: Create a database schema for managing library resources, user access, reservation and checkout.

Users Control: Develop user registration and users control features to ensure secure users to the application.

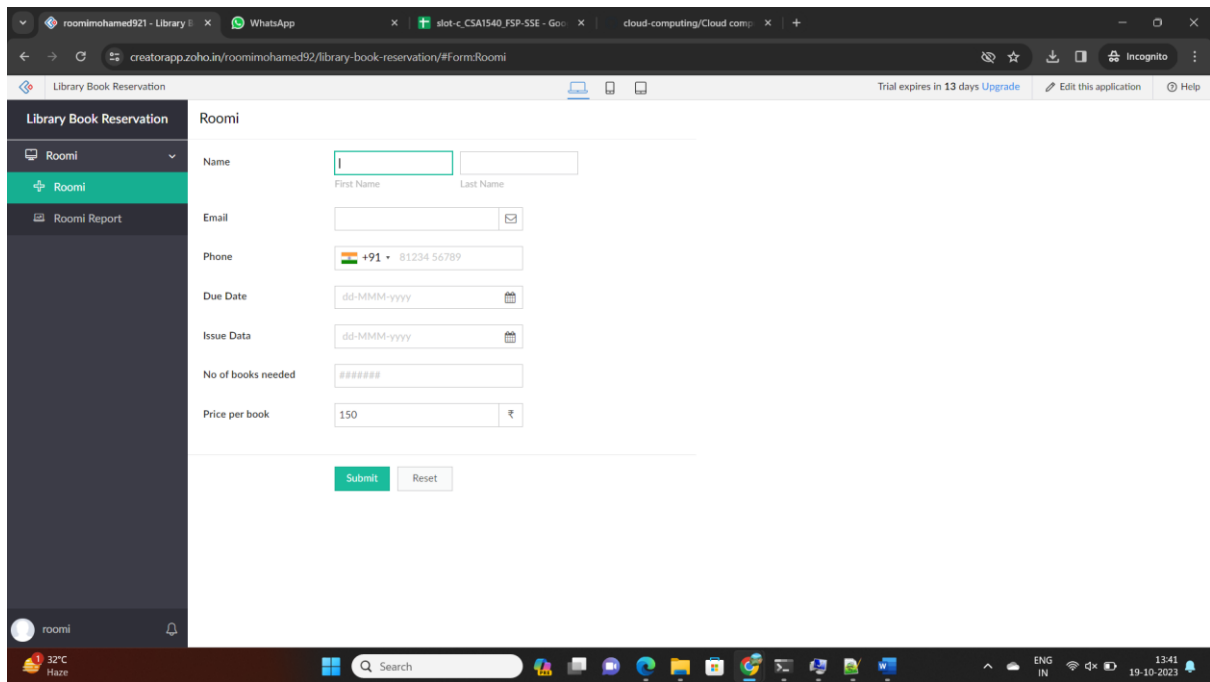
Reservation and Booking System: Create forms and workflows for booking and reserving books. Implement a booking system that allows users to request book online.

Testing and Quality Assurance: Thoroughly test the application to ensure its functions smoothly and securely.

Deployment on cloud Platform: Deploy the library Book Reservation System on your chosen cloud service provider ensuring data security.

Outcome:

Upon completion of the above procedure you will have a cloud based Library Book Reservation System for SIMATS library that efficiently demonstrates the SaaS model.



5)

Creating Web API for Basic Pay System

Aim: To create web API for Basic Pay System

Procedure:

- first open zoho website and enter the credentials required
- After creating account, click on creator's option
- Create an application for Basic Pay role system.
- After creating application it open function page
- Next add the functions like name, email, date of Joining, Employee ID, designation, Basic Pay, DA, CCA, TAX Total Salary.

$$DA = \text{Basic Pay} \times 0.2$$

$$CCA = \text{Basic Pay} \times 0.3$$

$$TAX = \text{Basic Pay} \times 0.03$$

$$\text{Total} = ((\text{Basic Pay} \times 0.3) + (\text{Basic Pay} \times 0.2) + (\text{Basic Pay})) - (\text{Basic Pay} \times 0.3)$$

- After adding functions click on done and select accessing file application.
- Next open the application and fill the details.
- After filling the details click on submit.
- Data is stored and can view it.

Result:

Therefore, API for Basic Pay System is successfully created and executed.

roomimohamed921 - Pay roll

WhatsApp

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cloud-computing/Cloud com

creatorapp.zoho.in/roomimohamed92/pay-roll#Pay_Rolls

Pay Roll

Trial expires in 13 days Upgrade

Edit this application

Help

Pay roll

Pay Rolls

Pay roll

All Pay Rolls

Pay Rolls

Pay roll

Employee Name

Employee ID

Phone

Email

Designation

Date of joining

Experience

SubForm

Name

reg no

Basic pay

CCA

DA

First Name

Last Name

Submit

Reset

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Notes
6)

Creating Web API for student information system

Aim: To create web API for student

Apparatus Required: Zoho website, Internet

Procedure:

- First open Zoho website and enter the credentials required.
- Next after creating account browse section and open it.
- Create an application form for student information.
- After creating it, opens functions page.
- Add functions like Name, Mail, ID, No. of students, marks for each subjects, total, Age, Phone no., gender, Father name, mother name.
- After adding function click on done and select access application file.
- Open application file and fill details.
- After filling details click on submit.
- The data is stored and we view it.
- API for student information system is successfully created.

Result:

Therefore the API for student information system is successfully created.

roomimohamed921 - Student

WhatsApp

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creatorapp.zoho.in/roomimohamed92/student-mark-list#Mark_Lists

Incognito

Student Mark List

Student Mark list

Mark Lists

Mark list

All Mark Lists

Student_subform

Mark list

Name

First Name

Last Name

register number

#####

Email

Phone

+91

81234 56789

Institution Name

First Name

Department

SubForm

Name	Regno	Department	maths	physics
<div><div></div><div>First Name</div><div></div><div>Last Name</div></div>	#####		#####	#####

+ Add New

Submit

Reset

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7) To install VM workstation and allocate the storage.

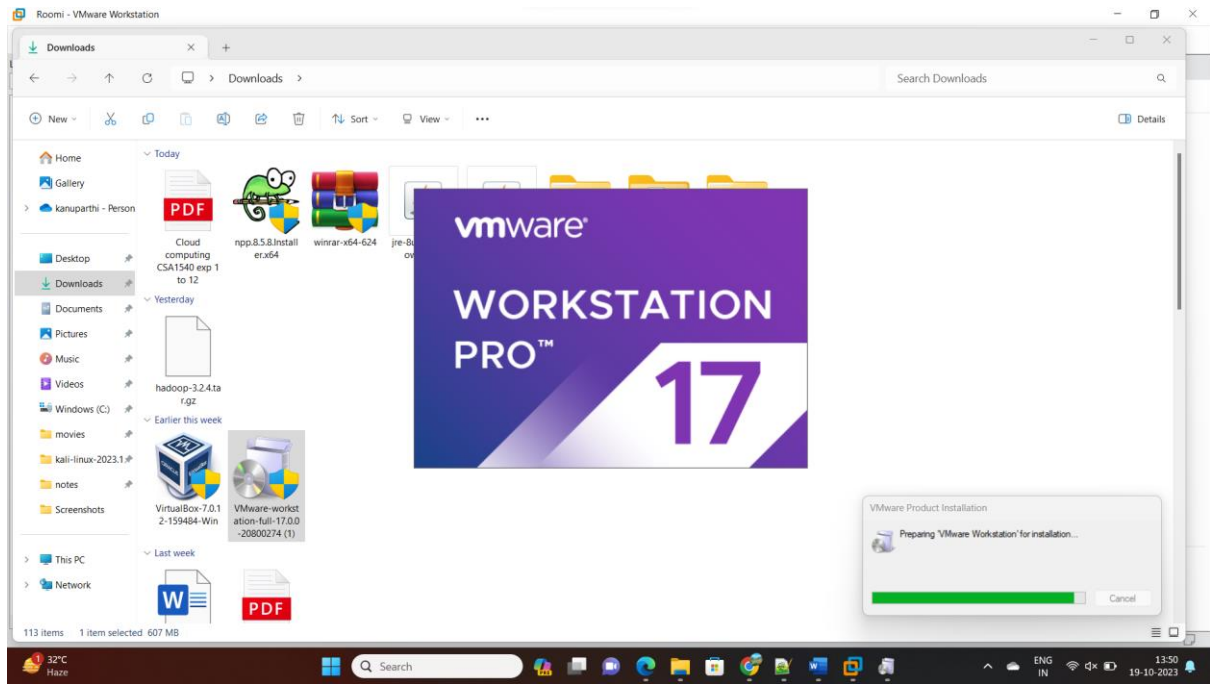
Aim: To install VM workstation software and create (or) allocate the storage.

Procedure:

- Open browser and search VM workstation software.
- Download and install the VM workstation software.
- Download the OS image of Kali Linux and Ubuntu.
- Open VM software and run software.
- Provide Permission required to run software.
- Create the new VM in software.
- Next select type recommended for software.
- Place the OS downloaded file in given option.
- Select the operating system and click next.
- It displays the location file.
- Next select the maximum size for storage and click next.
- Later click on the finish.

Result:

We have successfully installed VM workstation software and created (or) allocated the storage.



1) Create a virtual machine with 1 CPU, 2 GB Ram and 15 GB storage disk using type 2 virtualization software.

Aim: To create a VM using VMware workstation virtual box with 1 CPU, 2 GB ram and 15 GB storage and launch it.

Procedure

- Install the virtualization software VMware workstation as type 2.
- Download or a image file
- Start VMware.
- Configure the H/W settings
- Install the VM and launch.

Result - ?

Result:

The VM using ubuntu image has been configured and installed on a type 2 hypervisor using VMware workstation.

Home

cse

Clone of SRJRAM_VM

SRJRAM_VM

kali-linux-2023.1-vmware-amd64

Roomi

Roomi

Power on this virtual machine


Edit virtual machine settings

Devices

Memory	4 GB
Processors	2
Hard Disk (NVMe)	8 GB
CD/DVD (SATA)	Auto detect
Network Adapter	NAT
USB Controller	Present
Sound Card	Auto detect
Printer	Present
Display	Auto detect
Trusted Platform Module	Present

Description

Type here to enter a description of this virtual machine.



Virtual Machine Details

State:

Powered off

Configuration file:

C:\Users\kanup\OneDrive\Documents\Virtual Machines\Roomi\Roomi.vmx

Hardware compatibility:

Workstation 17.x virtual machine

Primary IP address:

Network information is not available

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10) Create a configuration to increase and decrease the screen size.

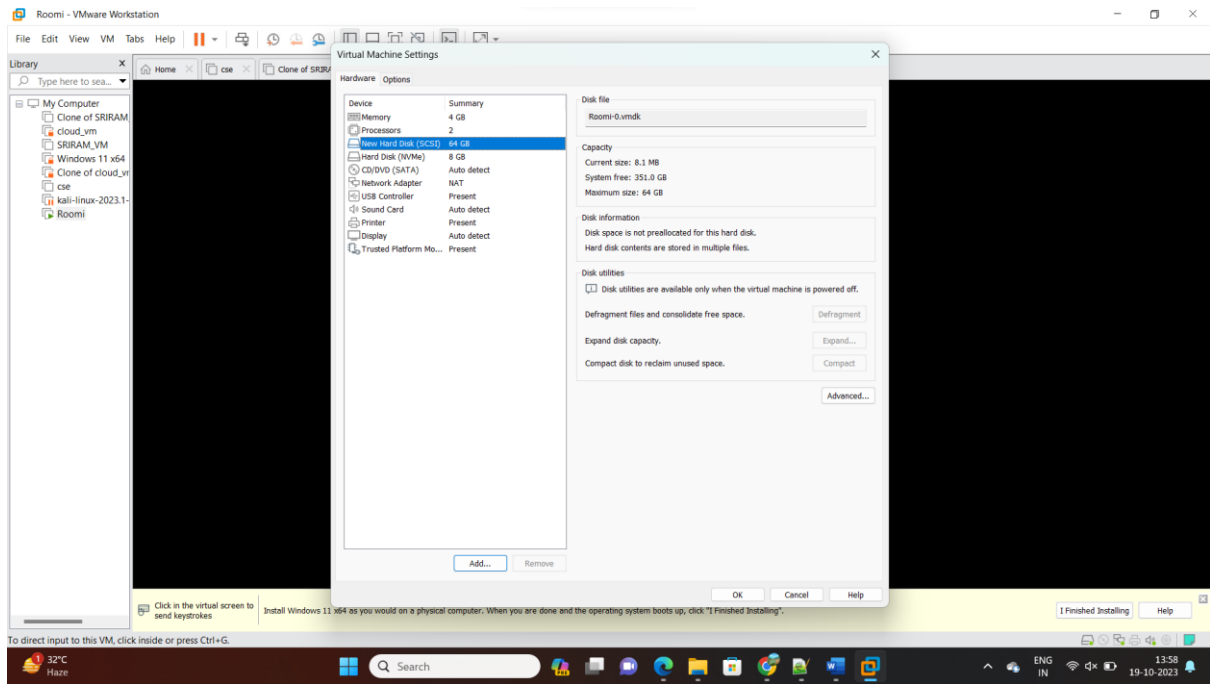
Aim: To create a configuration to increase and decrease the screen size.

Procedure:

- Create a configuration to increase and decrease the screen size.
- Select "enter setup" in Boot manager.
- After that select "configure screen size" in Boot maintenance manager and give enter.
- Set screen size and press enter.
- Select wait changes and exit.
- The screen size is increased.

Result:

Thus the size of the screen is increased and decreased successfully.



8) Create a snapshot and test it by changing resolution.

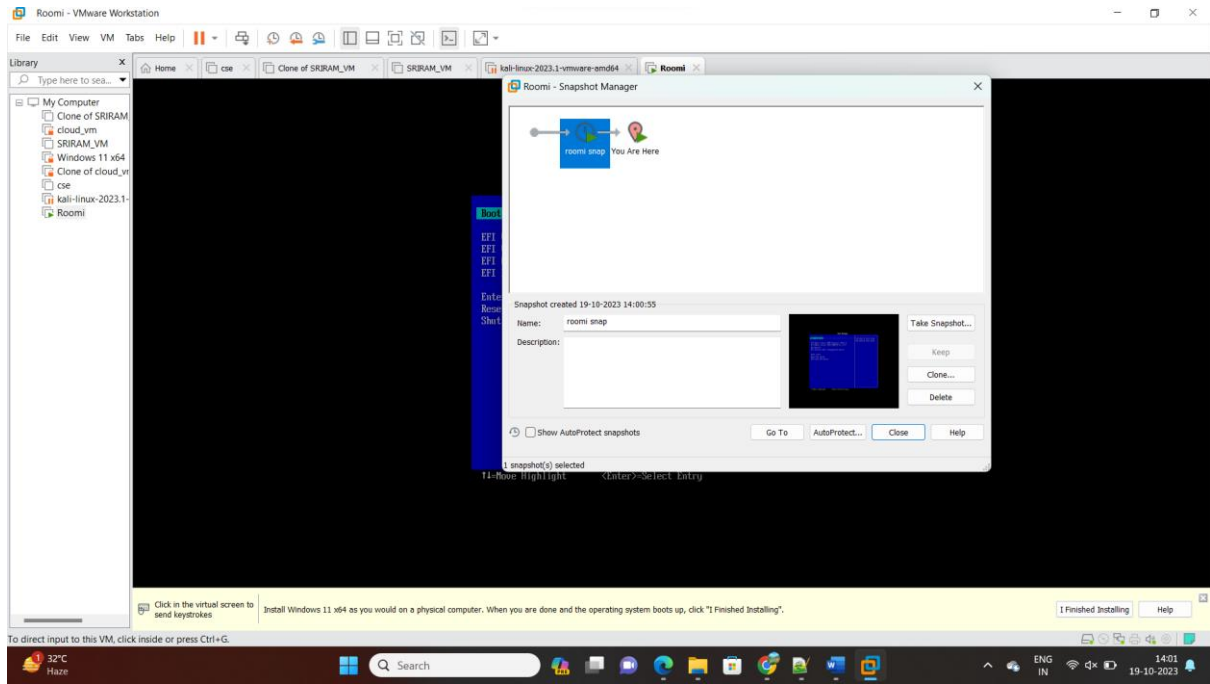
Aim: To create a snapshot and test so that if deleted content are restored after reloading newer version of the OS.

Procedure:

- Create a snap shot of VM
- Deleted few files and restore the snapshot by loading snapshot from the window.
- Given right click then we will get option snapshot.
- In snapshot select take a snapshot name it.
- Then go to snapshot manager which on far of the page.
- Select snapshot which we have saved.
- The snapshot is created.

Result:

The snapshot of the VM has been implemented and tested successfully.



Q) Create a clone of VM and test it by loading previous versions?

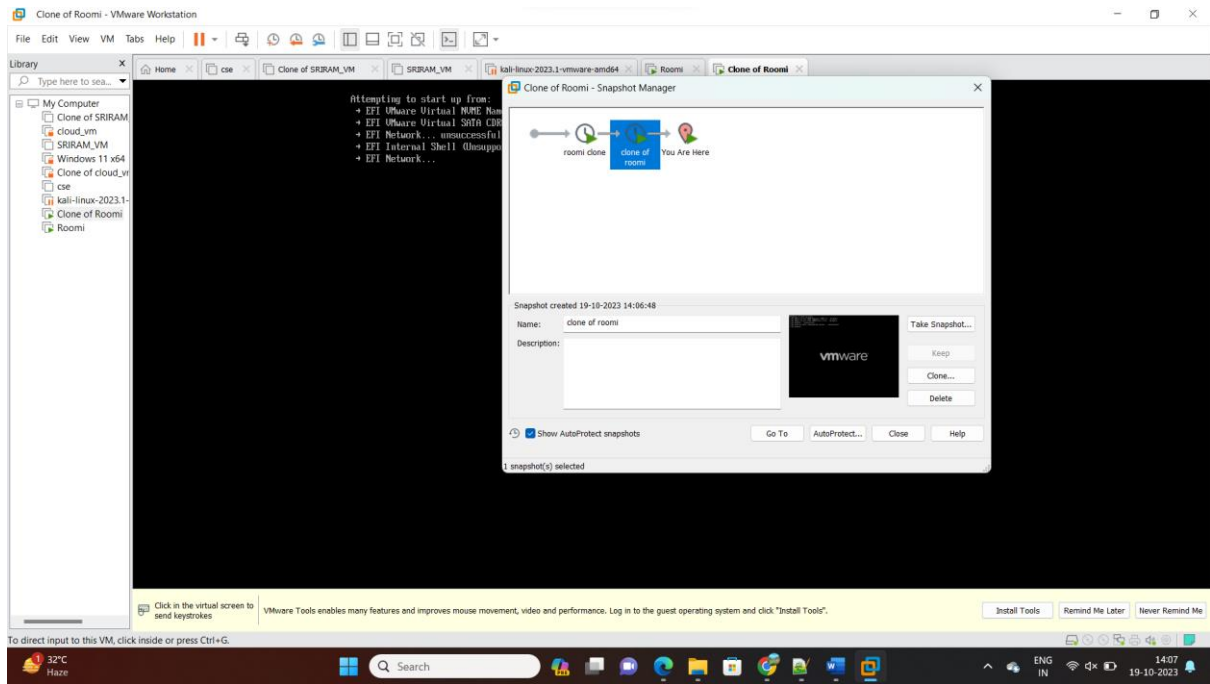
Ans: To create a clone version of existing virtual machine and open it from storage.

Procedure

- Create a clone ^{VMware} ^{Virtual} ^{Machine} of the VM
- Stop the process of running.
- Go to window menu select Snapshot.
- Select "Revert to snapshot"
- Then again shut down the guest.
- Go to manage and select clone.
- Give Name → Next → Finish → Done.
- The clone of VM is created.

Result,

Thus the clone of the VM has been implemented and tested successfully.



12) Create a Virtual Hard Disk from virtual machine allocate amount of 10GB of storage physical HDD.

Ans: To create a Virtual Hard disk for the given virtual machine and allocate a amount 10GB of storage from Physical HDD.

Procedure:

- > Launch the VM using VMware - workstation under customize hardware Add storage
- > Select appropriate Storage type.
- > Finish the configuration of storage.
- > Check to see if the additional hard disk is added in the VM.

Result:

An Virtual Hard disk has been added inside the VM machine.

