

Experiment - 01

i) AIM:- TO Create a Webpage for Passport Application System.

Tool Required:- Zoho.Com (Online Application)

Procedure:- Step-1: Firstly Create the Login Credentials in zoho.Com (through :- phnumber / Email).

Step-2:- Then go on to the Creator menu which is appearing on desk top right after Login.

Step-3:- Then go for Create Solution to start Creating the web API. then select Applications

Step-4:- Then give the title / Application name of webpage. Now click on Create New form.

Step-5:- And choose build from Scratch and upload every requirement. Then Submit it to Show the Saved data.

Step-6:- And Insert all the data required for form filling and then click submit to Store.

Result:- Thus the Creation of web API is Success - fully Implemented and Executed.

Output:-

Name *

Email *

phone *

Date of Registration

Annual Income *

valid ID proof *

Experiment - 02

AIM:- TO Create an webpage Application for Cab Booking

Tools Required:- zoho.com (online application)

Procedure:-

- open zoho.com website & Login to the site.
- Create an account in zoho.com.
- Then click on Create a new Application
- Then select "cab Booking" Application
- Then fill the required details.
- Then submit after filling the details.
- Then the application got saved and it is ready to use.

Result:- Thus the webpage for "cab Booking" has been created and executed successfully.

Output

Name -

Email Ad -

mobile Number -

Geneder -

Booking Date -

Travel Date -

Pickup Time -

~~Eis~~

Experiment -03

AIM To Create an webpage Application for Student Registration.

Tool Required:- zoho.com(online Application).

Procedure:-

- open zoho.com website and login to the site.
- Create an account in zoho.com.
- After creating click on "Build from Scratch" button
- Then click on Create a new Application.
- Then select on "Student Registration" Application.
- Fill all the required details in the form
- Give a Subform and fill the marks list
- Then save the details and execute the program

Result:- Thus / the webpage Application for "Student Registration" is implemented and executed successfully.

Output:-

Registration Number

Name

Email

Phone

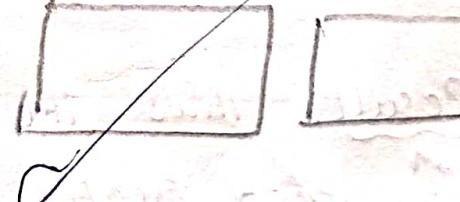
Date of Admission

Academics

Subject Name

Mark

Aggregation Grade

+Add 

Experiment - 04

AIM:- TO Create a webpage for the Restaurant Order.

Tool Required:- Zoho.Com (online Application)

Procedure:-

- open Zoho.Com (online Application)
- Then click on Creator tool which was appear on the front page of zoho.
- Click on the new solution that appears on the corner at Creator Tool.
- Go for Create from scratch in Desktop.
- Then choose a template to design the Restaurant Orders.
- Then close it by choosing all required Applications.
- Click on Done and click on Access to the Application
- Then run the Application.

Result:- Thus the web page for Restaurant order is successfully implemented and executed.

Output:-

Name

Email

Phone

Address

check In*

check out*

Room Type*

Experiment - 05

AIM:- TO Create a webpage for the payroll System.

Tool Required:- Zoho.Com

Procedure- Open zoho.com website and login.

- Select "Creator to build custom" app for our own needs
- From the left slide bar select "solutions".
- Then click "Create solution".
- Then Select Applications to Create web App.
- Click on "Create from Scratch" for Template
- Enter the Application name "payroll System".
- Add all necessary elements into form.
- To calculate Salary

$$\checkmark DA = \text{Basic pay} * 0.15$$

$$CCA = BP * 0.05$$

$$TAX = \text{Basic pay} * 0.03$$

$$\text{Salary} = \text{Basic pay} + DA + CCA - TAX$$

- Save Application and run the program.

Output

Employee Name

Employee ID

Email

Phone

Qualification

Department

Experience

Basic pay

Basic pay

 10000

DA

 1500

CCA

 500

TAX

 300

Salary.

 11700

Result: Thus, the result is successfully implemented and executed.

Experiment - 06

AIM:- To Create a webpage for platform as a Service (PaaS)

Tool Required:- Zoho.com

Procedure:- Launch the App Service in portal

- 1) Give the valid web App name
- 2) Select Code and select either Java or .Net
- 3) Select the preferred web service stack.
- 4) Select the preferred O.S.
- 5) Select the Region for Deploying the APP
- 6) Review and create
- 7) Deploy it on the given URL
- 8) Run the Application.

Result:- Thus the webApplication of PaaS is successfully implemented and executed.

Experiment -07

AIM:- To Create a Vm using Vm ware work station/ virtual Box with 2 GB RAM and 15 GB storages.

Procedure:-

- Install the Virtualisation software VM-ware workstation as type-2.
- Download an OS Image.
- Start VM ware
- Configure Hardware settings.
- Install the Virtual machine and Launch Blazor.

Result Thus, the Creation of Vm using Vm ware work station is successfully executed.

- Add the memory Button to 15 GB as required in Hardware settings
- Configure 2 processors in the program
- give the memory to 2 GB RAM in Virtual Box / VM-ware workstation.
- Now run the program.

Output:-

▼ Devices

Memory 2GB

Processor 1

Hard Disk (SCSI) 15 GB

CD/DVD (SATA) Auto Detect

Network Adaptor NAT

USB Controller present

Sound Card Auto Detect

Display Auto Detect

Experiment - 08

AIM:- To create a virtual harddisk for the given virtual machine and allocate around 10 GB of storage from physical HDD.

Procedure:-

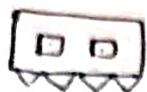
- * Launch the VM using VM ware work-station
- * Under Customize hardware → Add storage
- * Select Appropriate storage types.
- * Finish the Configuration of storage
- * Check to see if the additional hard disk is added in the VM.

Result:- An virtual hard disk has been added inside the VM Machine.

- Add the memory to 10 GB of storage
- And give the memory to 2 GB
- And no of processors to one (In this case)
- Then we can get the CD/DVD so that the program gets runned.

Output:-

Sripadhi J.



Memory 2 GB



Processor 1.



Hard Disk 10 GB



CD/DVD (SATA) Auto Detect



Display Auto Delete

Note:- Here the Hard Disk of storage
Consisting 10 GB

Experiment - 09

AIM:- Create a Snapshot and cloning of a VM and test it by loading the previous Version/ cloned vm.

Procedure:-

- * Create a shot of vm.
- * Deleted few lines and restore the Snapshot by launching version of vm.
- * Shut down the VM and Create a clone of VM under manage Vm.
- * open the VMX file from the closed location of the VM and test the cloud Version

Result, Thus the Creation of Snapshot and cloning is executed and implemented in Vm Software Successfully.

- Then go for file Button
- click on manage Button appearing on the Screen
- Then click on snapshot and we can take as many as required
- Then check for the cloned name' of the displaying file.

Output:-



Sripad 2

Devices



Memory 2 GB.



processor 1



Hard Disk 15 GB.



CD/DVD Auto Detect



Display Auto detect

Result:- Thus Creating a Snapshot and
cloning of a VM is successfully executed
and implemented.

Experiment - 10

Demonstrate iaas by Creating a VM Using a public cloud Service provider(Azure/GCP/IaaS). Configure with minimum CPU, RAM and storage and launch the VM Image

AIM:- To Configure and launch an VM using microsoft Azure.

Procedure:-

- 1) Create an Account in microsoft Azure portal/ public cloud Service
- 2) Create new resource and deploy it
- 3) Create a new Virtual network and deploy it.
- 4) Create a new Virtual machine.
- 5) Under Basic → Select the resource group and select preferred region.
- 6) Select the size → VCPU and 3.5 RAM
- 7) Select the Image
- 8) Configure the Disk. Networking.
- 9) Adjust the Hard Disk to 60.
- 10) And the processor to 2 and the memory for the 4 GB.

Output:-

Clone of Sripadhw

Devices

Memory 4 GB

 Processor 2

Hard Disk 60

CD/DVD(SATA) Auto Detect.

Display Auto Delete.

Result:- Successfully execution for clone
of Sripadhw snapshot by loading previous
Version.

Experiment - II

AIM:- TO Create a web Application Using Microsoft azure and deploy and publish it on the internet and access it with the Application.

Procedure:-

- Launch the app Service in Microsoft Azure portal
- Give the web Application name
- Select the Code type Such as Java or python
- Select the preferred web Server stock either Tomat or JBOSS
- Select the preferred os
- Select the region for deploying the app.
- Review and click on Create
- Deploy it on the given URL
- By using URL check whether its working or not.

Output:-

Web App

Name Sripathi
Publishing model Code
Runtime Stack Java-17

Domains

Default Domain Sripathi.azurewebsites.net
Custom Domain Add Custom Domain
Operating System Windows.

Result:- Thus the creation of web APP Services in Azure portal is implemented and executed successfully.

PaaS by Creating a VM.

Experiment - 12

AIM:- To Demonstrate Infrastructure as a Service by Creating a Virtual machine using public cloud Service provider

Procedure

- 1) Create an account in Microsoft Azure portal.
- 2) Create New resource and Deploy it.
- 3) Create a New Virtual Network and Deploy it
- 4) Create a New Virtual Machine
- 5) Under Basics Select the resource group and Select preferred Region
- 6) Select the Image windows 2016 server
- 7) Select the Size 1vCPU and 8GB RAM.
- 8) Give proper Administration user name and password
- 9) Configure the Disk, Networking.
- 10) Review and Create VM, identify the IP numbers associated with the VM.
- 11) Launch the VM and test its functionality

Output:-

Size:-

Size	Standard D4s V3
VCPUs	4
RAM	16 GiB
DISK	OS DISK

Virtual Machine

Computer Name	Snipadh
OS	windows
VM Gen	v2
VM Architecture	x64

Result:- Thus the Virtual machine in azure is executed and implemented successfully.

Storage Service by Using Azure

Experiment - 13

21/08/2023

AIM: TO Create a storage service using ms azure and demonstrate it by using a static webpage Service.

Procedure:

- 1) Create a storage account in Microsoft Azure portal
- 2) Give a valid username and select region.
- 3) Configure the storage Services
- 4) Select the static web page and give index.html and non.html
- 5) Go to storage Explorer and select the Blob and upload the html files.
- 6) Check the primary URL and to verify whether the static webpage is accessible through internet as a public Service
- 7) For creation of sql we have to create a Service first
- 8) Then provide all the required details and run the program.

Output:-

Overview.

URL <https://sareeta123.blob.com>

Last Modified 8/23/2023, 2:13:29 PM

Creation Time 8/23/2023

Type Block Blob

SIZE 1.15 kB

Access Tier HOT (Inferred)

Server Encrypted TRUE

Content type text/html

Undelete

Result:- Thus the creation of storage service using MS Azure is successfully implemented and Executed.

AIM:- To Develop a database & store it in SQL storage services provided by Ms Azure and perform a Simple Query operations on the Database.

Procedure:-

- 1) Launch SQL Database from the Microsoft Azure portal
- 2) Give a proper database name.
- 3) Select the Server and give a valid Server name
- 4) Give admin name and password.
- 5) Configure the database
- 6) Select either available DB or Create a new database
- 7) Review and Launch
- 8) Deploy it
- 9) Perform the Simple Queries on the Database

Output:-

Home → Microsoft SQL database, new database



Your deployment is Complete

Result:- Thus using the azure the development of SQL storage services are implemented and executed successfully.

Experiment -15

AIM:- To Create a web Application Using Microsoft azure and deploy and publish it on the internet and access it via the URL of the application.

Procedure:-

- 1) Launch the app Service in Microsoft Azure portal
- 2) Give a valid web App name.
- 3) Select Code and Select either Java or .Net as runtime stack
- 4) Select the preferred web Services stack i.e., either Tomcat or JBOSS
- 5) Select the preferred os.
- 6) Select the preferred region for deploying the App.
- 7) Review and Create
- 8) Deploy it on the given URL
- 9) Use the URL of the web app and check to See if it is working.

Outputs:

URL : www.Saveetha.com

Resource Name: Saveetha

GroupName: Saipadhi

Date of creation: 24-08-2023

Time of creation: 8:00 AM.

Subscription : Terminated

VM : Accepted

Deployment successful and valid.

Result: Thus the creation of web application through Azure is successfully executed and implemented.

Experiment-16

AIM:- To Create a web Application for Library Membership Registration

Procedure:-

- * Open Zoho website and login into that with the credentials
- * Select "Creator" to build custom app for our own needs
- * Go for Solution Button and click Create from scratch.
- * Enter Application name "Library Membership"
- * Fill with all the necessary details
- * Then go for Done and Access Button.
- * Then record the details onto the form and store the details.

Result:- Thus the creation of web APP is implemented and executed successfully.

Experiment - 17

AIM:- To Change Hardware Capability of a VM (Either by clone / create a new one) which is already created and Configured.

Procedure:-

- * Install Vm ware workstation pro and open it.
- * Create a New Virtual Machine with 1CPU & 2GB memory & 15GB hard Disk size.
- * Now click VM & take Snapshot of VM.
- * Now go to VM and choose "manage" option and under it select "clone".
- * Create Vm will be created & Now give right click on the VM.
- * Create new Virtual Disk.
- * Give name and click finish.
- * In the VM Configuration then will be a new Virtual Disk will be add successfully.

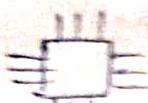
Output

Devices



Memory

2GB



Processor

1

Hard Disk 1

20GB

Hard Disk 2

15GB

Network

NAT

Sound

Auto Detect

Display

Auto Detect

Result- Thus the hardware compatibility was successfully changed

Ex-18.

Create a SaaS using any public cloud service providers and check the public accessibility of storage file to demonstrate storage as a service

Aim:-

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To Demonstrate a storage as a service using any public cloud service provider and check the public accessibility of storage files to demonstrate storage as a service.

Procedure:-

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• Go to Azure Portal and sign in your Azure account.

→ Create a new resources then search for storage as a account and click create.

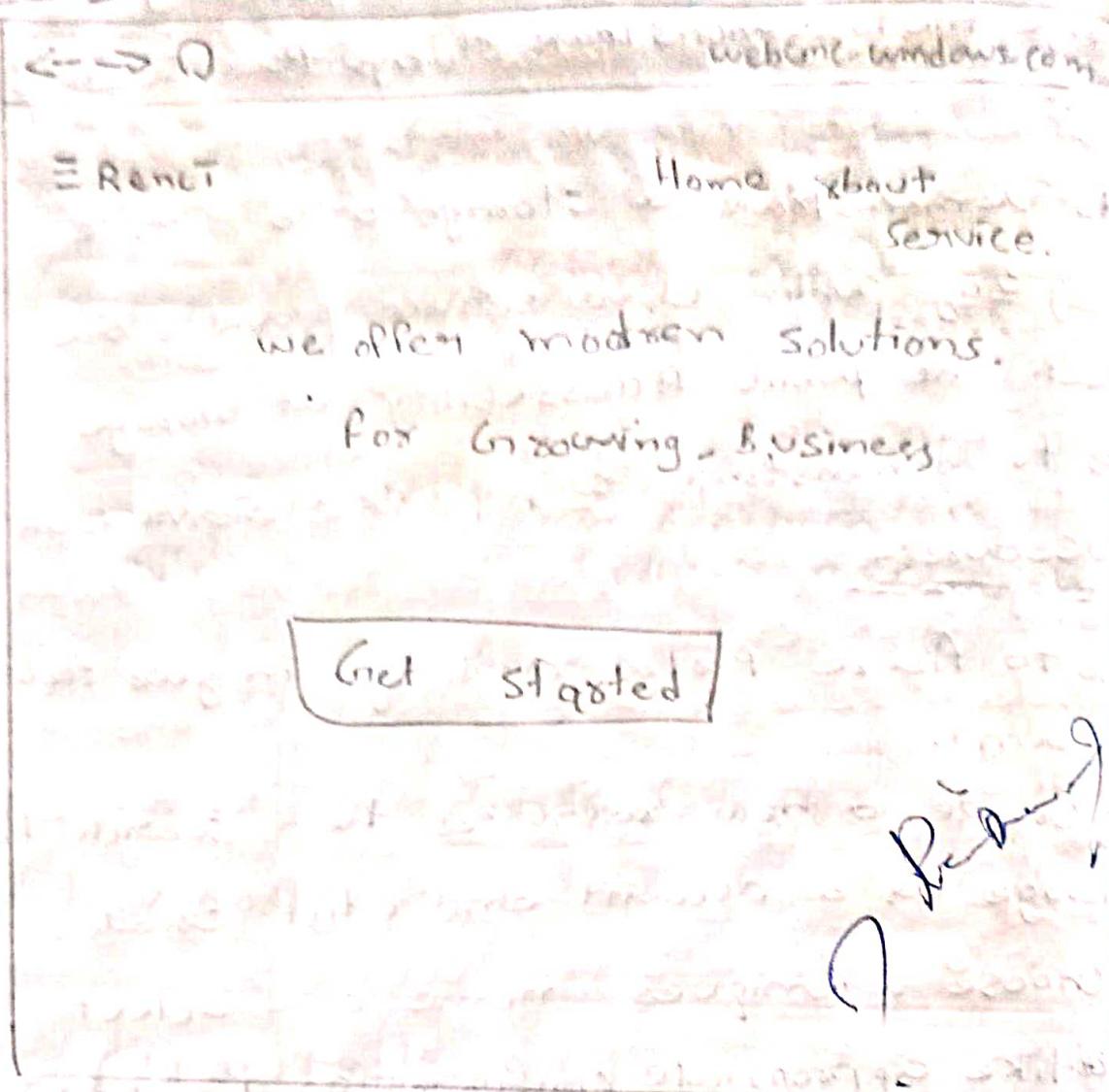
• Choose a unique name and select & like appropriate configuration for resources group.

• Once the Storage Account is created then Create a new containers.

• Choose the unique name for container then Create a new container.

• After uploading file, click on the uploaded file name in the container to view its properties.

Output:-



Result:-

The Storage as a service was created and successfully executed.

Database as a Service (DaaS) create and configure a new VM image cloud service provider.

Aim:-

To create a database as a service, create and configure VM image in any cloud service provider.

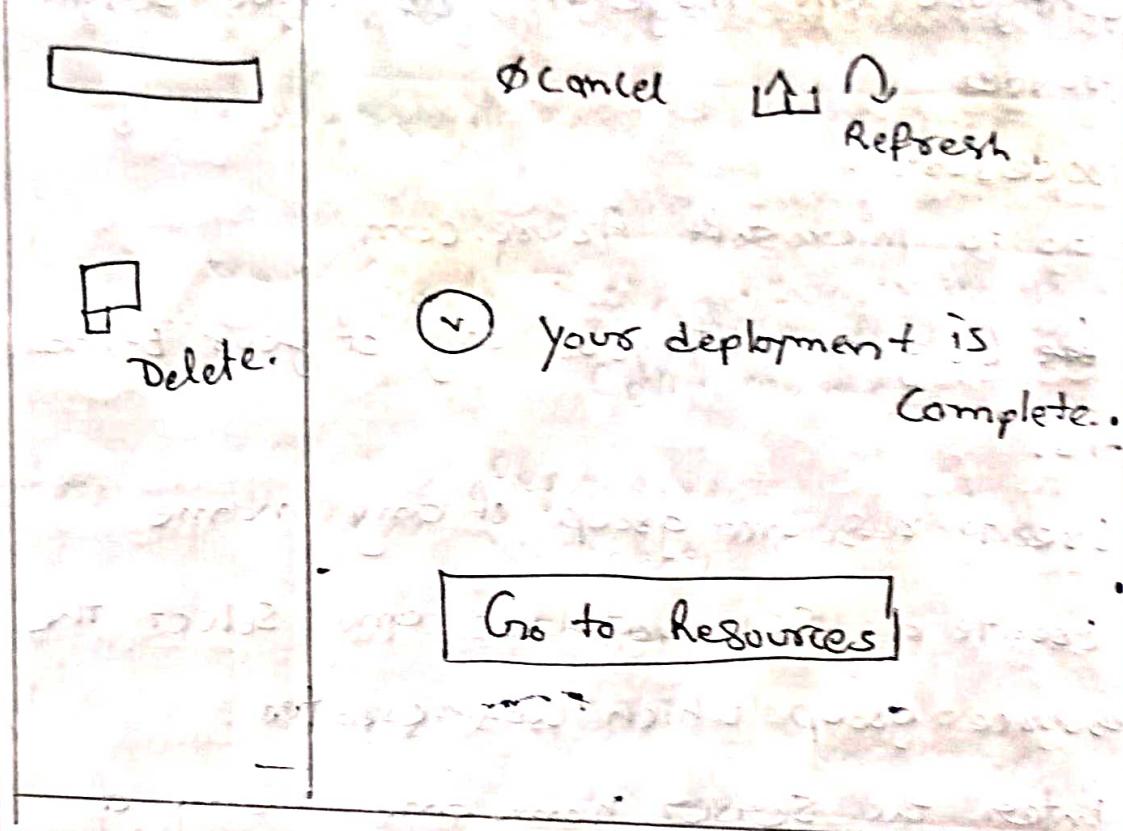
Procedure:-

- * Go to Microsoft Azure.com.
- Login with your any of your E-mail id.
- Create resource group of any name.
- Create a SQL Database and Select the resource group which was created.
- Enter the Server name and name of the database uniquely.
- In Networking select allow azure service and resources to access servers.
- In Additional Settings select sample.
- The Database is Deployed.

Output:-

↔ → ↵

home >
microsoft sql database , new database.



Result:
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Thus using Daaas the VM image is
created and successfully executed

Create a SQL storage service and perform a basic query using any cloud service provided by (DAAS).

Aim:-

To create a SQL storage service and perform a basic query using any cloud service provided by Database as a service.

Procedure:-

- Go to Microsoft Azure Students portal.
- Login or create account with any of your E-mail id.
- Now Create a sample resource group.
- Now Create a new Service SQL database and select the resources group which was created.
- Enter the Server name the name of the database uniquely.
- On networking select allow Azure service and resources to access servers.
- In additional setting select simple.
- The database is being created.
- Now Create a table with some entities.
- Now try to retrieve those database using SQL queries.

Output :-

oh/Query editor	
Query & Run.	
Create Table	
	Field : Name.
	Type : Reg no.
	Length : 10
	Field : Name.
	Type : VarChar
	Length : 20
	Field : Marks
	Type : Integer.
	Length : 4

~~Query~~: Result:-

The SQL is created and successfully executed.