Assignment: 1

Title:

Microsoft Azure

Objective:

To learn about Microsoft Azure a cloud computing platform and infrastructure, created by Microsoft.

Problem Statement:

Case shidy on Microsoft Azure to learn about the same. It is a cloud computing platform and infrastructure exected by Microsoft, for building deploying and managing applications and service through a global network of microsoft managed data centre.

A computing device with a display having internet connectivity and capable to sun exel browser.

Theony:

Introduction:

Microsoft Azure is a cloud computing service created by microsoft for building, testing, deploying and managing applications and services thorough a global network of microsoft managed data centrus. It provides software as a service (SaAS) platform and infrastructure as a service (TaAS) and support many different programming tools language and frameworks including both microsoft specific and third party.

Microsoft Azure uses specialized operating system, called Microsoft Azure to run its 'Jahric layer', a cluster hosted at Microsoft's data centre that manages computing and storage resources.

Azure provides an API build on REST, HTTP and XML that allows a developer to interact with the services provided by Microsoft It also provide client side managed class library that encapsulated the Junctions of interacting with the service.

Services:

Mobile Services:

Mobile engagement collects real time analytics that highlight uses behaviour. It also provides push notifications to mobile devices.

Storage Services:

It provides REST, Sok APIS for sharing and accessing data on the cloud.

Table services let programs store structural tent in partitioned collections of entities that are accessed by partition key and primary key. It's a NO SQL non-relational database.

Blob Sorvier

Allows programs to store unstructured text and binary, data as blobs that can be accessed by a NTTP(1) path.

Quene Service:

mdaram)

Lets programs communicate asynchronously by message using greves.

Data Management:

Azure Search provides tent search and a subset of Data structured files wing REST or SDX APIs.

DOSMOS DB:

It is a NOSQL database services that implements a subset of file the SQL select statement on ISON documents.

SQL Databases:

Formerly known as SQL Azure database, works to create scale and extended applications to the cloud using Microsoft SQL servled technology.

SQL database warehouse:

It is a data warehowing service designed to handle computational and data intensive queries and database exceeding DD.

Azure data:

It is a scalable data storage and analytic service that require developer to sun massively parallel queries.

Conclusion:

Executing applications in the cloud offer many advantages. Over the traditional way of running program.

Through this case study we learned about Microsoft Azure a cloud computing platform and infrastructure created by Microsoft studied about it's Jeature, service and data management techniques.

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Many Companies uses Microseft Azure cloud sorries for their A language manufacture where a see the

Assignment - 2

Title:

Grouple App Engine.

Problem Statement:

Installation & Configure Croogle App Engine.

Objective:

To learn about installments and configuration Google App Engine

Software 4 Hardware requirements:

Hoodware: PC, desktop, laptop with is processor.

Sollware:

Software:
Operating System: Linux
Groggle cloud software development kil, Python 2.7 & above.

Theory:

Introduction:

Croogle App Engine is a web application hosting service. An application or scruice accessed over the web, usually with a web browser, Storefronts with shapping carts, social networking sites, multi-player games, mobile applications, survey applications, project management, collaboration, publishing, and all the things we are discovering are good uses for the web.

Croegle App Engine is designed to boost website with many similareous users. Applications written for App Engine scale automatically. As more people was recovered of the application it allocates more resources and manager

the use of the resonaces.

Cropyle App Engine:

It is platform as a service (Raas) cloud computing platform
that is July managed and uses builtin services to sun your appr

As soon as you have signed for a cloud nesource, you can build

With the template / HTML package in Cre. With Ninjaz and webappe in Python. With cloud SOL in PMP With Mearin in Java.

These are covered by the depreciation policy and the service level agreement of the app engine. Any change made to such a feature are backward compatible. These include data storage retripul, and search communications process management, computation, app configuration and management.

Data Storage, retrieval and bearch include Jeatures such as migration bod, google cloud SQL lays, database, dedicated memorache

Communication include Jeature such as XMPP, channel, URL, Jetch, mail and Croogle cloud Endpoints.

Steps to install and configure google alop engines:

1. Creak Groupe cloud platform peroject.

2. Download google cloud SDK archiere for your system depending whom

- the OS A achitecture
- 3. Entract the archieve to any location on your file system preferably your

home Jolders.

4. If you are having any trouble getting the cloud command to work, ensure your path is defined properly. Use the install script to add cloud SDK toold to your path. You will also be able to opt command. Completion for your bash shell and usage statistics collection during the uninstallation process.

S. Restart your terminal for the changes to take place.

6. Initialize the SOK.

7. Use the galoud init command to perform several command SOK setup tasks. These include authorizing the SDK tools to access google cloud platform using your user account credentials.

Conclusions:

For the above lab peractical we learned how to implement and configure google app engine using own google SDK and commands.

## Assignment: 3

Title:

Apex programming language

Objective
To create an application using apex programming Language in

Problem Statement:

Creating an application in saleforce com using apen programming language.

Software and Mardware Requirements:
A computer device with a display having internet connectivity and capable to run web browser.

Web Borowser: any

Theony

Introduction

Apex it a properiotary language developed by the salesforce. com. As por the officeal definition. Apen is strongly typed, object oriented programming language that allows developer to enemie the flow and transaction control statements on the Jorce com platform scarce in Conjuction with the calls to the fore com

It has a Java like syntax and acts like detabase stored procedure.

It enables the developers to add business begin to most system events including buttons clicks, related neveral updates and usual force page. Apex code can be initiated by useb services requests and from triggers on objects. Apex is included in Performance edition, Unlimited Edition, Enterprise Edition, and developer edition.

Apex application:

We can use apex when we want to

- Create web services with integrating other systems

- Create email sorries for email cast or setup.

- Create email services.

- Perjoan complex validation over multiple objects at the same

time and also custom validation implementation.

- Create transactional logic like using the database methods for wholating the records.

- Perform some logic when a record is modified and modify the related objects record when there is some working structure of Apex.

Flow of actions:

there are two sequences of actions, when the developer sets the code and when an end user performs some action which invokes the apen code.

Developer action:

When a developer write and saves the apen code to the platform, the platform application serves first complete the code into set of instructions that can be understood by the Apen runtime interpreter,

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End wer action:
When an end user toniggers the execution of Apen, by dividing a button on accessing a visual force page, the platform application server retrieves the compiled instructions from the metadata and sends them through the runtime interpreter before returning the result. The end user observes no difference in execution time as compared to standard application platform.

Steps to create an Application in Sales Force using Aper programming language.

1. Create a new org.

After sign-up, logging using URL.

Gro to developer console for writing program.

Click on file then select Apex class and write a code

Select tabs section ( Jan creating Gus)

Ohen a page.

While code in programs window.

Conclusion:

After performing the above lab practical we learned how to create an application in SourceForm.com using Apen programming language and learned about apen architectural and its applications.

Assignment - 4

Salayone Cloud austom application

Objective:
To develop an application using salesforce cloud.

Broblem Statement:

Design and develop custom Application (Mini Project) wing Salusforce cloud.

Software and Hardware Requirements:

A computing device with a display having internet connectivity and capable to run on upb browser.

Operating system: any Web brown: any

Introduction

Salesforce com is an American cloud based software company headquartered in Sanforancisco, California. Though the bulk of its revenue comes from a customer relationship management (CRM) product. Sala Josie also sell a complementary suite of enterposise application Joursed on cuitomers service, marketing automation, analytics and application development

The salufonce customer portal provides customers the ability to trade their own cases, including a social networking play in that enable the user to join the conversation about their company on social media; prends analytics tools and other services including email alost, Grogle souch

Assignment - 4

Salayone Cloud austom application

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To develop an application using salesforce cloud.

Broblem Statement:

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Software and Hardware Requirements:

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	and access to customer entitlement and contracts.
	Lightning Platforms:
	It is a glattorm of a service (Pags) that allows developed to
-	It is a platform as a service (Paas) that allows developer to create add on applications. These third party applications are hosted on
	Salesforce.com infrastructure.
	Steps to design and develop custom Application using Salaylorce cloud
	Click on lightning experience.
4	Click on setup and select setup for current App.
	Click on create an object.
	Click on Object Manager Tab next to Home Tab.
	Click on create - cushom object.
	New customer object page open, label as a command, Plural, label,
	comments
-	Crise Record Name - Common name, Data type, tent.
	Select Allow Reports check box.
1 8	Click on Sare.
	Click on Home Search Tabs in Quick Search, select custom object
-	For object select command for Tab Style select Any Icon.
(	Lick Neut Neut Save.
9	search App Manager in Quick Search and Select App manager.
6	inter name to app name, click on Nent-Neut-Neut.
	lick on save and Jinish.
	lick on app Lanches Symbol and select comment Box App.
	Tour the app.
	Tay out Mobile App:
	· Select Chrome developer tools.
	· Open chrome Right click on chrome page.
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- · Select Inspect · Click toggle device Mode Button to simulate your browses as a device.
- 19. To stimulate the sales force mobile app in your browser, copy and paste in use form previous tab. Delete past of the use immediately.
  - · Click on left navigation bon:
  - · find comment object under recent and click on it
  - · Click creak a comment.

## Conclusion:

After performing the above lab practical we learned how to design and develop custom Application. Using salesforce cloud, we also learned about the salesforce lightning platform.