UNIT –II

Accessing the Cloud

**Web Application Framework:**

**Python Django : Example**

Django is an open-source web application framework written in Python.

Originally it was created to manage news sites.

Django was developed to ease the creation of database-driven web sites.

It contains number of Reusability components.

Its works on two principles

DRY (Don’t Repeat Yourself) and CRUD (create, read, update, and delete)

**Features:**

• A lightweight, stand-alone web server for development and testing

• A caching framework, which can use any of several cache methods

• An internal dispatcher system that allows an application’s components to

Communicate using predefined signals

• An internationalization system that translates Django’s components into multiple

Languages

• A scheme for extending the capabilities of the template engine

**Web applications:**

A Web application (Web app) is an application program that is stored on a remote server and delivered over the Internet through a browser interface for performing the tasks.

Web applications examples: Moodle, Gmail, Google talk, Google calendar, face book etc...

How a web application works:

1. User triggers a request to the web server over the Internet, either through a web browser or the application’s user interface
2. Web server forwards this request to the appropriate web application server
3. Web application server performs the requested task – such as querying the database or processing the data – then generates the results of the requested data
4. Web application server sends results to the web server with the requested information or processed data
5. Web server responds back to the client with the requested information that then appears on the user’s display

**Sample Application:**

Google Apps launched as free service in august 2006

It includes:

* Gmail webmail services
* Google Calendar shared calendaring
* Google Talk instant messaging and Voice Over IP
* Start Page for creating a customizable home page on a specific domain
* Google Docs and Spreadsheets
* Gmail for mobile devices

Google Apps Premier Edition has the following unique features:

**Per-user storage of 10GBs** offers about 100 times the storage of the average

Corporate mailbox, eliminating the need to frequently delete email.

• **APIs for business integration** APIs for data migration, user provisioning, single

Sign-on and mail gateways enable businesses to further customize the service for

Unique environments.

• **Uptime of 99.9 percent** Service Level Agreements for high availability of Gmail,

With Google monitoring and crediting customers if service levels are not met.

• **Support for critical issues 24/7** Includes extended business hours telephone

Support for administrators.

• **Advertising optional** Advertising is turned off by default, but businesses can

Choose to include Google’s relevant target-based ads if desired.

• **Low fee** Simple and affordable annual fee (US$50 per user account per year)

Makes it practical to offer these applications to everyone in the organization.