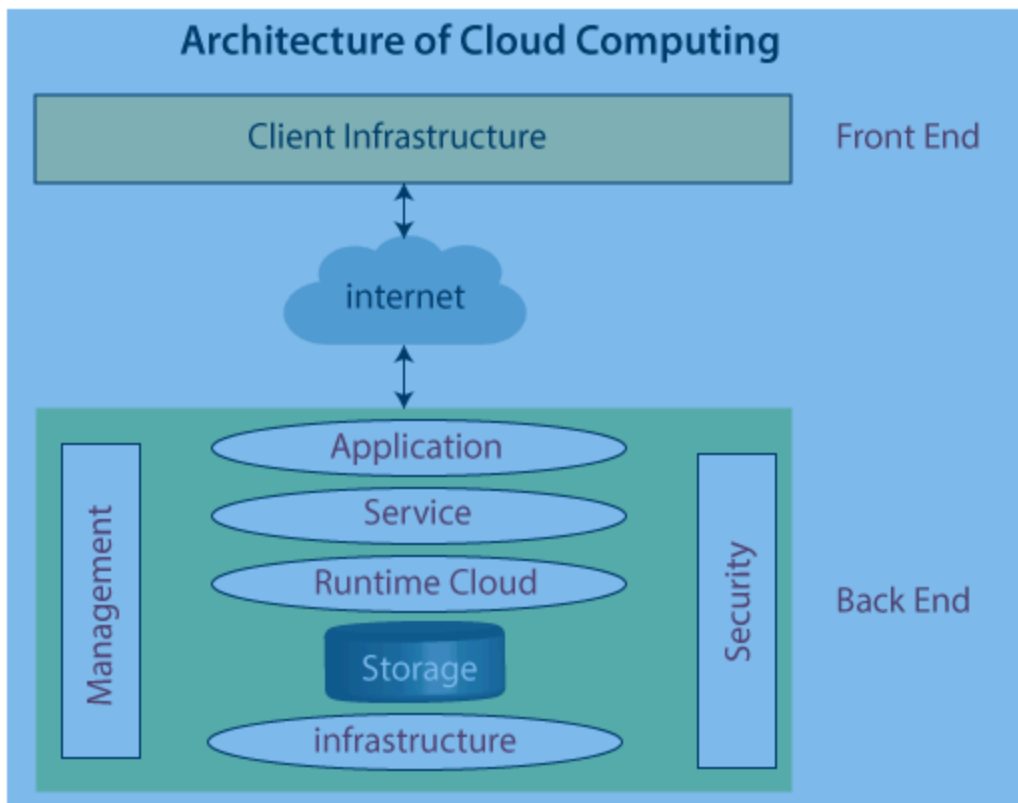# *Practical no 2 : Cloud Computing Architecture*

Aim: study of *Cloud Computing Architecture*

cloud computing technology is used by both small and large organizations to **store the information** in cloud and **access** it from anywhere at anytime using the internet connection.

Cloud computing architecture is a combination of **service-oriented architecture** and **event-driven architecture**.

Cloud computing architecture is divided into the following two parts -

- Front End

  -The front end includes web servers (including Chrome, Firefox, internet explorer, etc.), thin & fat clients, tablets, and mobile devices.

- Back End

  -The back end is used by the service provider. It manages all the resources that are required to provide cloud computing services. It includes a huge amount of data storage, security mechanism, virtual machines.

Components of Cloud Computing Architecture

. Client Infrastructure

Client Infrastructure is a Front end component. It provides GUI (Graphical User Interface) to interact with the cloud.

The application may be any software or platform that a client wants to access.

3. Service

A Cloud Services manages that which type of service you access according to the client's requirement.

Cloud computing offers the following three type of services:

i. Software as a Service (SaaS) – It is also known as **cloud application services**. Mostly, SaaS applications run directly through the web browser means we do not require to download and install these applications. Some important example of SaaS is given below

–

Example: Google Apps, Salesforce Dropbox, Slack, Hubspot, Cisco WebEx.

> **ii. Platform as a Service (PaaS)** – It is also known as **cloud platform services**. It is quite similar to SaaS, but the difference is that PaaS provides a platform for software creation, but using SaaS, we can access software over the internet without the need of any platform.

Example: Windows Azure, Force.com, Magento Commerce Cloud, OpenShift.

iii. Infrastructure as a Service (IaaS) – It is also known as **cloud infrastructure services**. It is responsible for managing applications data, middleware, and runtime environments.

> **Example:** Amazon Web Services (AWS) EC2, Google Compute Engine (GCE), Cisco Metapod.

Smartsuite

Cloud-Based Software Development Platforms for Scalability

Cloud-Based Software Development Platforms for Scalability

Software development is a rapidly evolving field, and development teams need to be able to scale their processes and infrastructure to meet changing demands. Cloud-based software development platforms have become increasingly popular for development teams to manage their software development processes effectively. These platforms provide a scalable and flexible environment that enables development teams to work efficiently and effectively.

pecific benefits of using cloud-based software development platforms for scalability:

1. **Flexibility:** Cloud-based software development platforms provide a flexible

environment that can meet the changing needs of development teams.

2. **Scalability:** Cloud-based software development platforms provide a scalable environment that can grow and evolve with business growth.

3. **Collaboration:** Cloud-based software development platforms provide collaboration tools for development teams, enabling them to work together more effectively and reduce communication overhead.

Example of Team management and collaboration
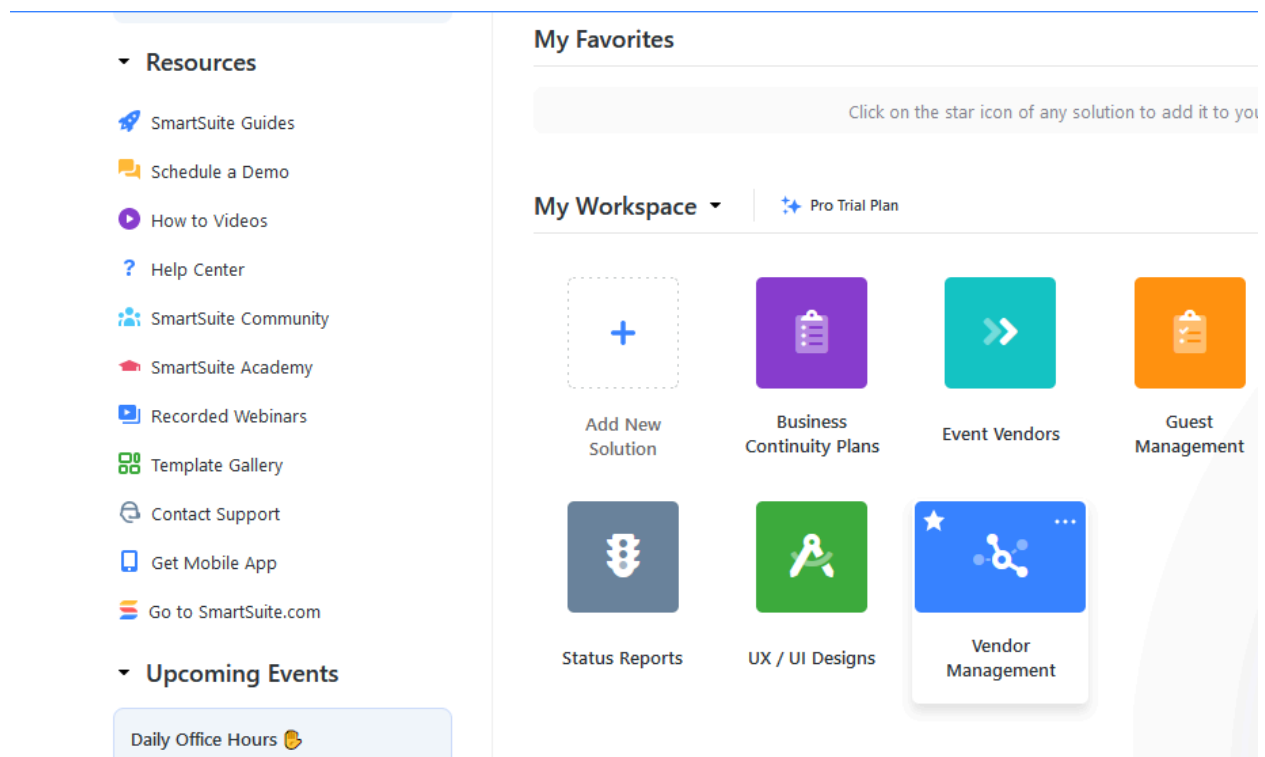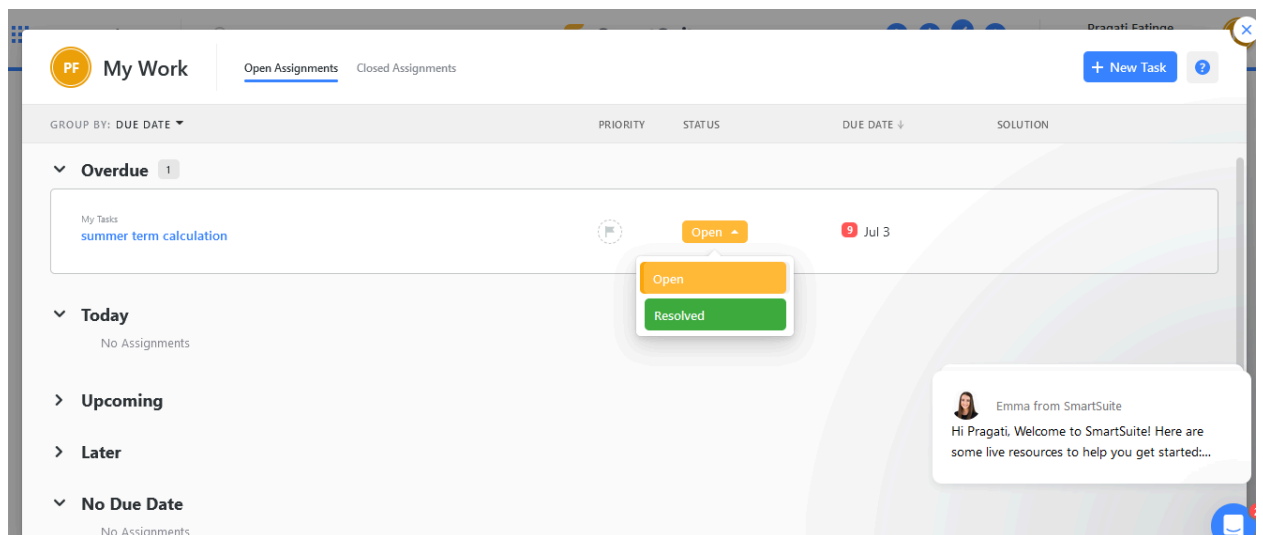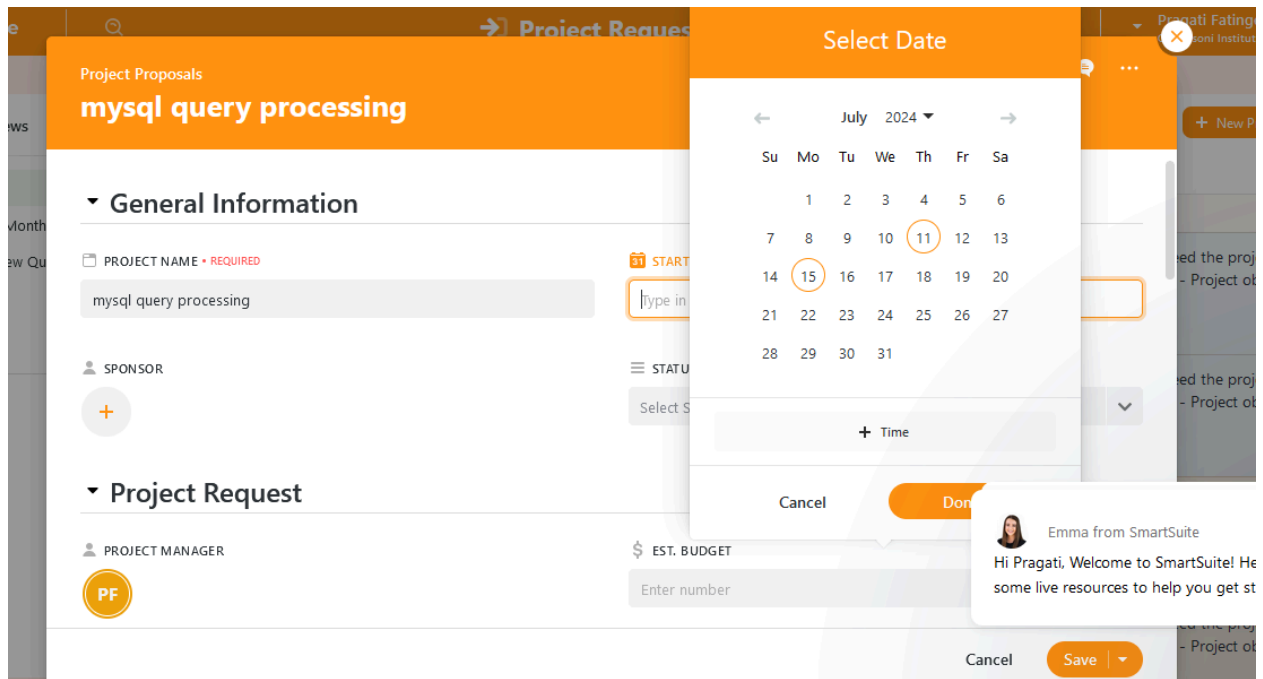
Grid View Report ▾ ★

Fields to Display 6 | Sort | Filter | Group | Spotlight | Row Size S | Find | View is shared

+ New Request ⋯

	Title	Assigned To	Priority	Status
2	Product Summary Page Design		● High	Approved
3	Contract Management Pages		● Normal	Approved
4	Automation Pages		● Normal	Approved
5	Sign-Up Pages		● High	Approved
6	Notification Framework		● Normal	New
✓	eCommerce II		● N	
8	Order Management Pages		● N	
9	Reporting Dashboard Pages		● N	
	eCommerce		● N	Approved

14 requests

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✓ 1 request selected   🖨 Print   ⬆ Export ▾   ⧉ Copy   ⧉ Duplicate   🗑 Delete Request   ✕

Grid View Report ▾ ★

Fields to Display 6 | Sort | Filter | Group | Spotlight | Row Size S | Find | View is shared

+ New Feature ⋯

	Feature Name	💬	Status	Due date	Description
1	Triggers & Actions		In Process	😣 Feb 25, 2022	Rule-based automation building based on "Wh...
2	Home Screen		Ready for Review	😣 Feb 25, 2022	Framework for the application home screen,...
3	Invoicing Module		In Process	😣 Feb 25, 2022 ✕ ▾	Invoice generation, distribution, and reminders.
4	Search		Backlog	😣 Feb 25, 2022	User search page with sort and filter controls.
5	Contracts Module		In Process	😣 Feb 25, 2022	
6	Fulfillment Integration		In Process	😣 Feb 25, 2022	
7	Admin Portal		Backlog	😣 Feb 25, 2022	
8	Product Pages		Ready for Review	😣 Feb 25, 2022	Detailed product pages, image requirements an...
	Notification		Backlog	😣 Feb 25, 2022	

14 features

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