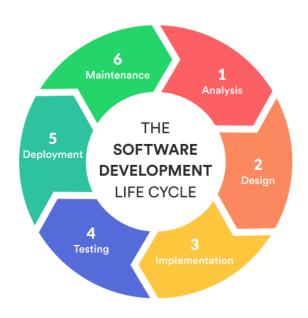
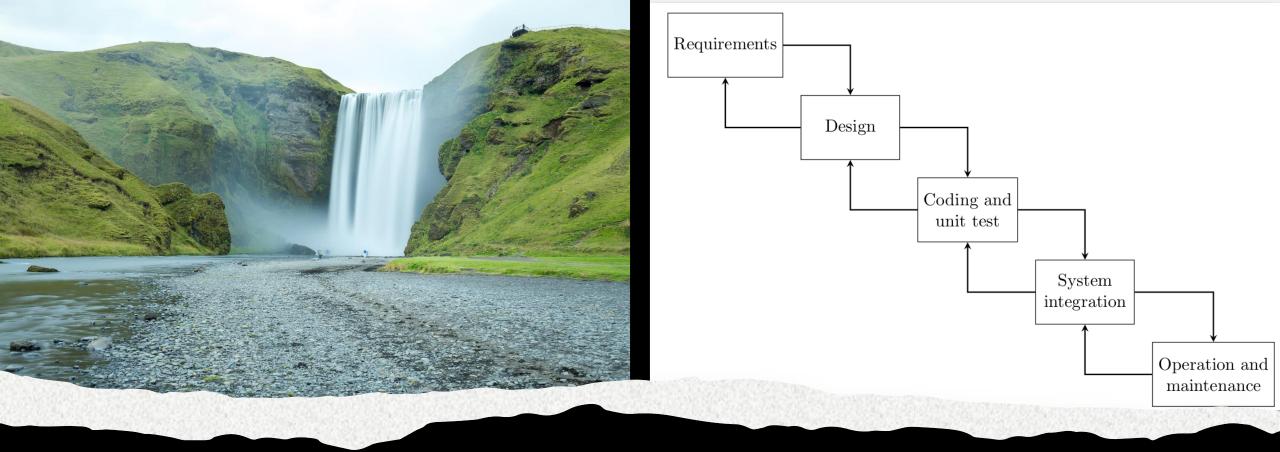
```
mirror_mod.mirror_object
      peration == "MIRROR_X":
      mirror_mod.use_x = True
      drror_mod.use_y = False
      "Irror_mod.use_z = False
       _operation == "MIRROR_Y":
       lrror_mod.use_x = False
       lrror_mod.use_y = True
       mirror_mod.use_z = False
        Operation == "MIRROR Z";
        rror mod.use x = False
Software Development and
        mext scene Design Basics
         rror_ob.select = 0
         bpy.context.selected_ob
         ata.objects[one.name].se
                               By Khaja
        int("please select exactle
           OPERATOR CLASSES ----
         vpes.Operator):
         X mirror to the selected
```

ject.mirror\_mirror\_x" FOR X"

## Software Development Life Cycle





## Waterfall Model

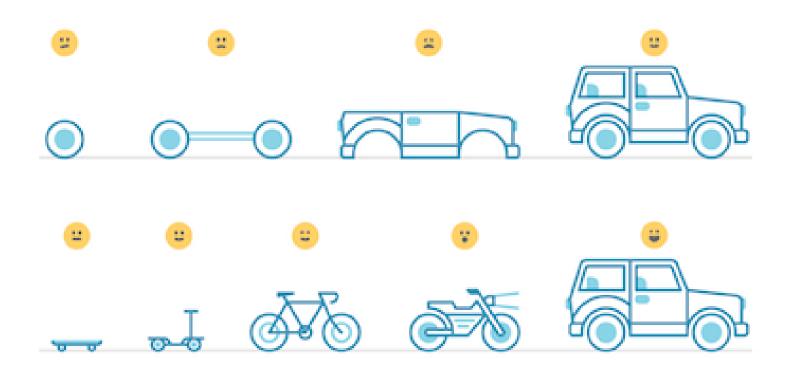




## Agile Based Software Development

- Agile Software Development is an iterative and incremental approach to software development that emphasizes flexibility, collaboration, and customer satisfaction
- Scrum is a popular Agile framework that structures work in fixed-length iterations called sprints.
   Sprints are usually two to four weeks long. Scrum includes defined roles (Product Owner, Scrum Master, and Development Team), events (Sprint Planning, Daily Scrum, Sprint Review, and Sprint Retrospective), and artifacts (Product Backlog, Sprint Backlog, and Increment).

## Waterfall vs Agile



## Roles in Scrum

#### Product Owner:

- Represents the stakeholders and is responsible for defining and prioritizing the product backlog
- Ensures that the team is working on the most valuable features and user stories
- Makes decisions about the product and accepts or rejects work results

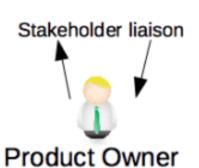
#### Scrum Master:

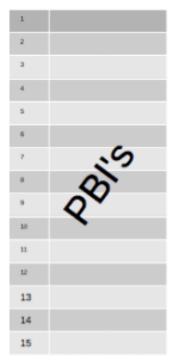
- Facilitates and ensures the Scrum framework is understood, implemented, and followed
- Acts as a servant-leader to the team, removing impediments and helping the team improve
- Facilitates Scrum events (Sprint Planning, Daily Scrum, Sprint Review, Sprint Retrospective)

# Roles in Scrum (Contd)

#### Team Member:

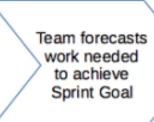
- Cross-functional: Comprising members with all the skills necessary to deliver a potentially shippable product increment.
- Self-organizing: Determines how to accomplish the work without external interference
- Delivers a potentially shippable product increment at the end of each sprint
- Collaborates with the Product Owner to understand and deliver the highest-priority product backlog items





Product Backlog





Sprint **Planning** 

Topic 1: forecast PBI's

Topic 2: plan work (e.g. tasks)



Product Backlog

Refinement

Sprint Backlog

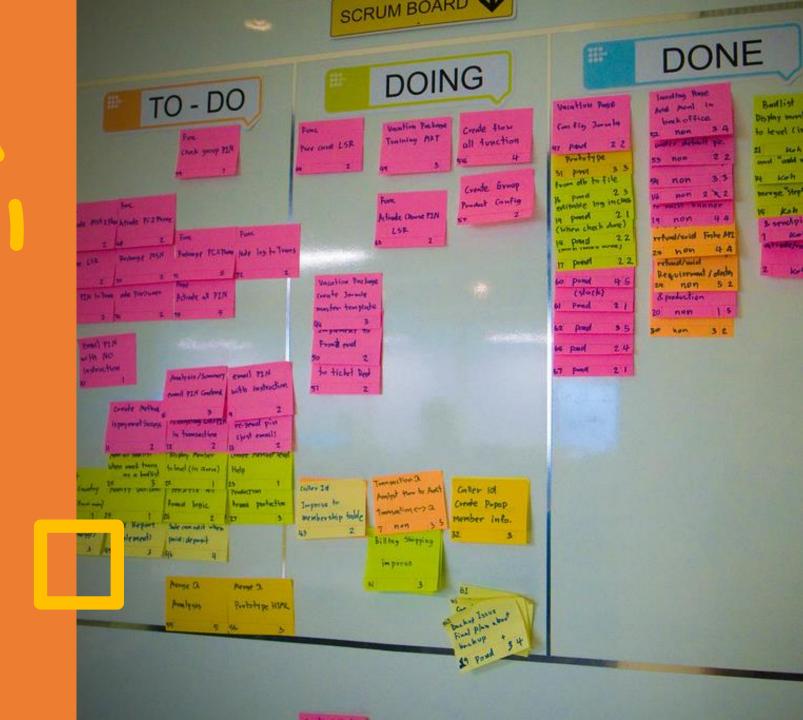
(max 1 month) Scrum Master lterative-Incremental Development & Delivery

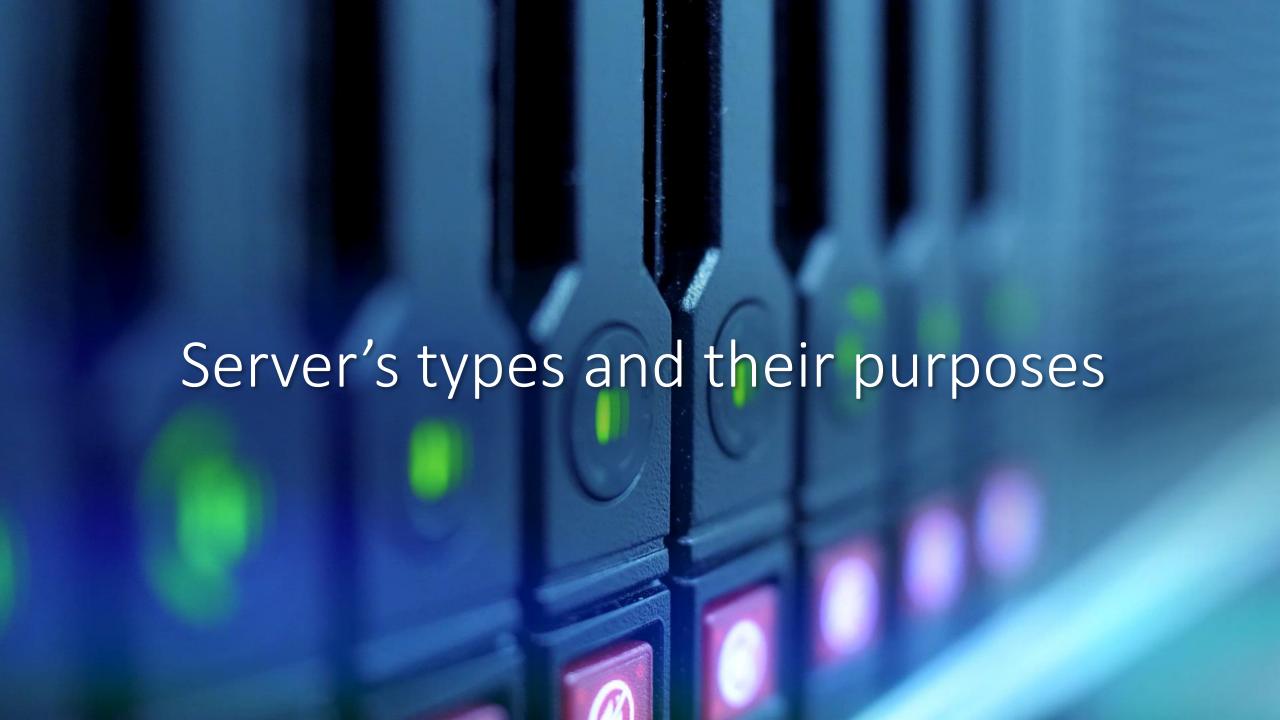
Daily Scrum Sprint Potentially Releasable Increment Sprint **Sprint** 

Retrospective

Review

## SCRUM BOARD

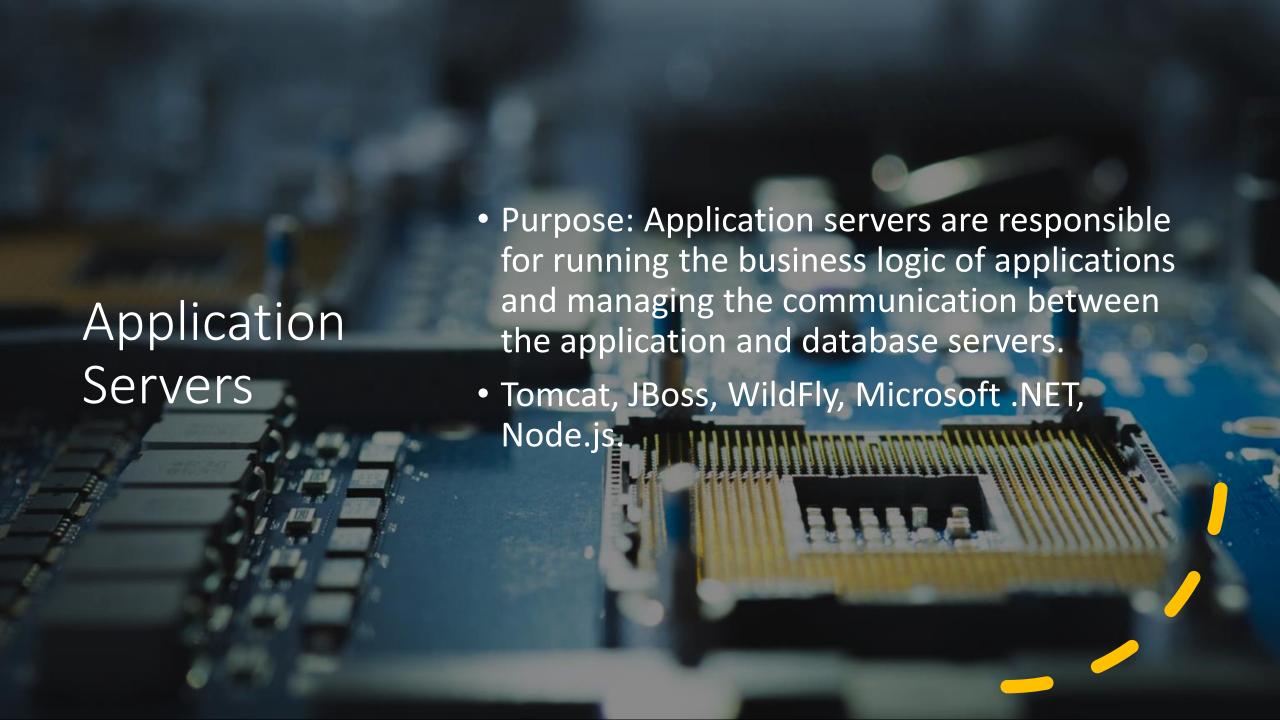




## Web Servers

- Purpose: Web servers are designed to host and serve web applications and content. They handle HTTP requests from clients (browsers) and respond with the requested web pages.
- Examples: Apache, Nginx, Microsoft Internet Information Services (IIS)





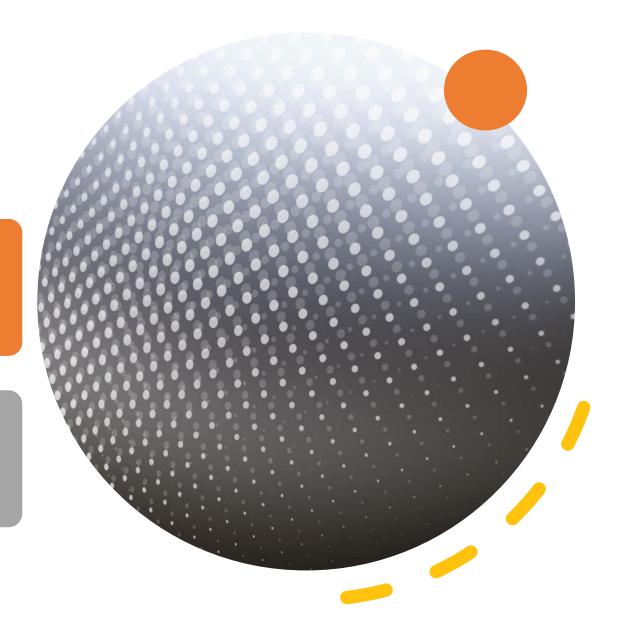
### Database Servers



Purpose: Database servers store and manage data. They handle database queries, updates, and provide a secure and efficient way to manage and retrieve data.

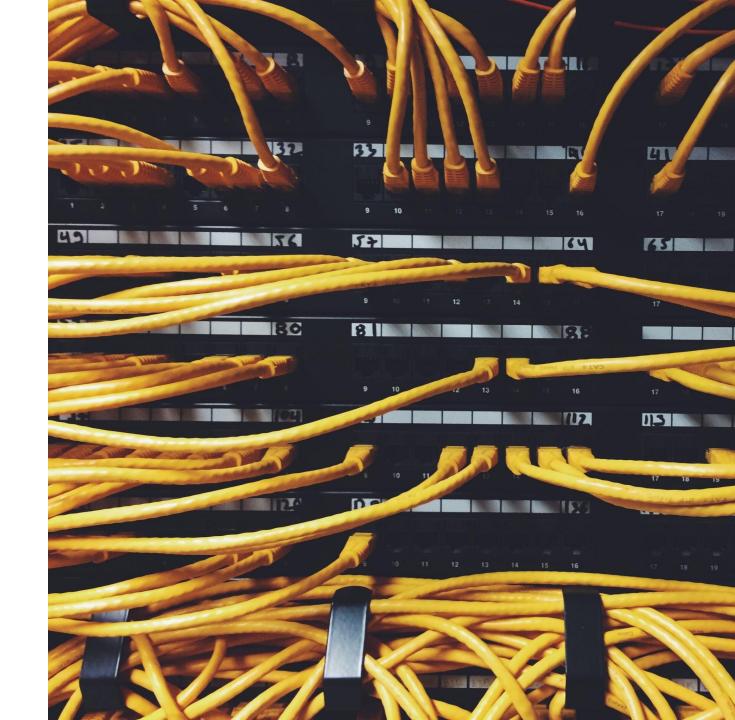


Examples: MySQL, PostgreSQL, Oracle Database, Microsoft SQL Server.

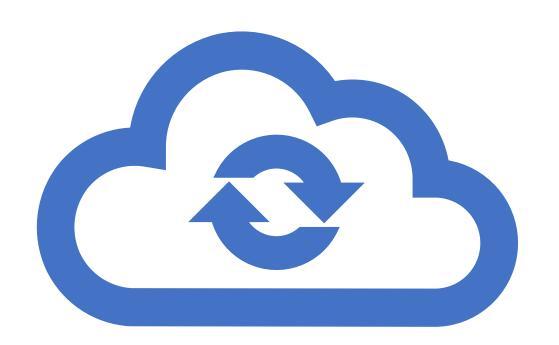


#### File Servers

- Purpose: File servers store and manage files, allowing users to access and share files across a network.
- Windows File Server, Samba



## FTP Servers



- Purpose: FTP (File Transfer Protocol) servers enable the transfer of files between systems over a network.
- Examples: vsftpd, ProFTPD, FileZilla Server



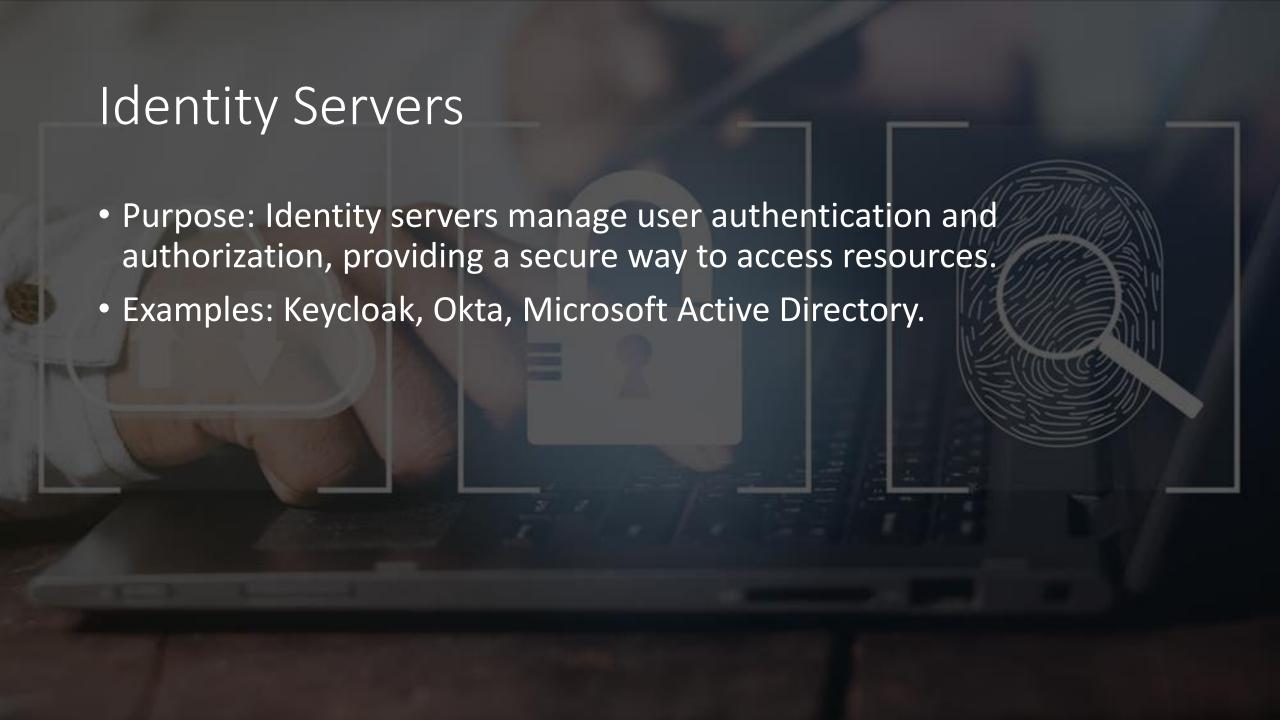
## Proxy Servers

- Purpose: Proxy servers act as intermediaries between clients and other servers. They can be used for security, load balancing, content caching, and anonymizing internet access.
- Examples: Squid, Nginx (as a reverse proxy).

## **DNS Servers**

- Purpose: DNS (Domain Name System) servers resolve domain names to IP addresses, facilitating the translation of human-readable domain names to machine-readable IP addresses.
- Examples: BIND, Microsoft DNS, Unbound.





### Collaboration Servers

- Purpose: Collaboration servers facilitate communication and collaboration among users, offering services like chat, video conferencing, and document sharing.
- Examples: Microsoft Teams, Slack, Mattermost

