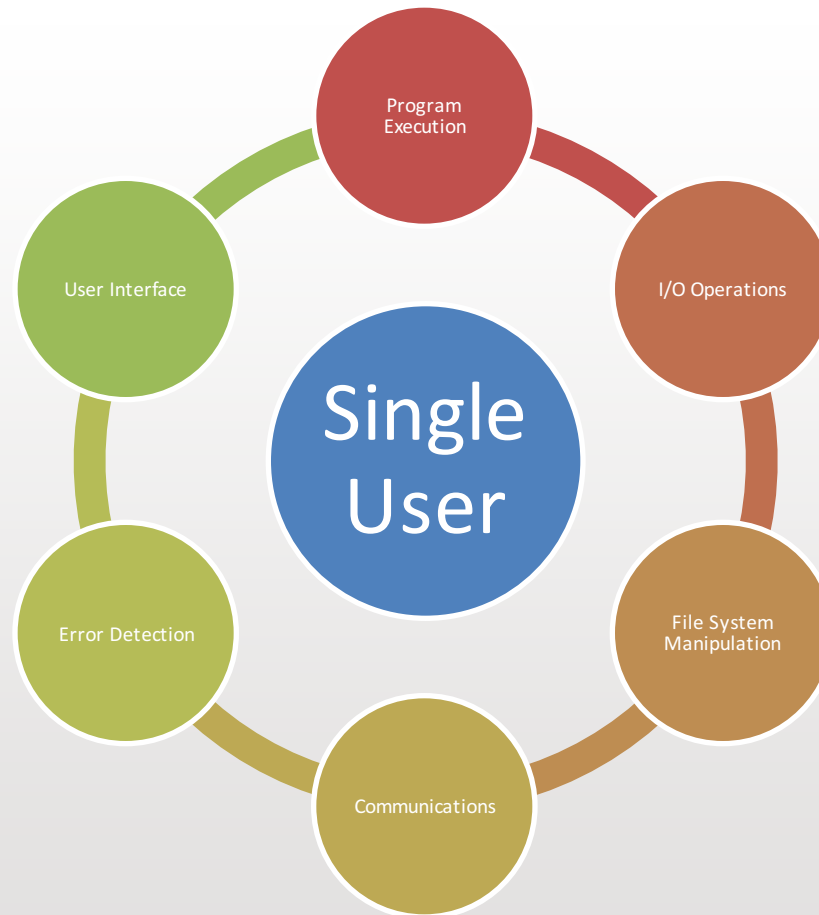




# Operating System Structure

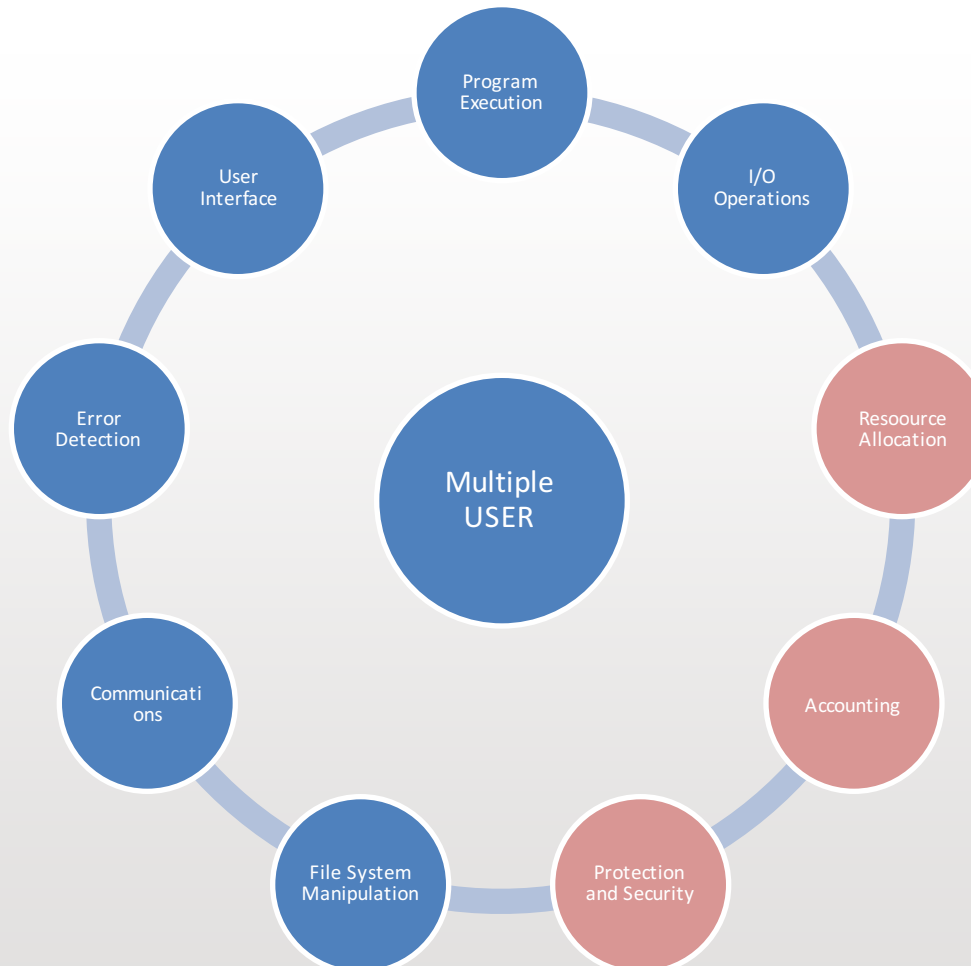
- **Services**
- **Interface**
- **System calls**

# OS Services



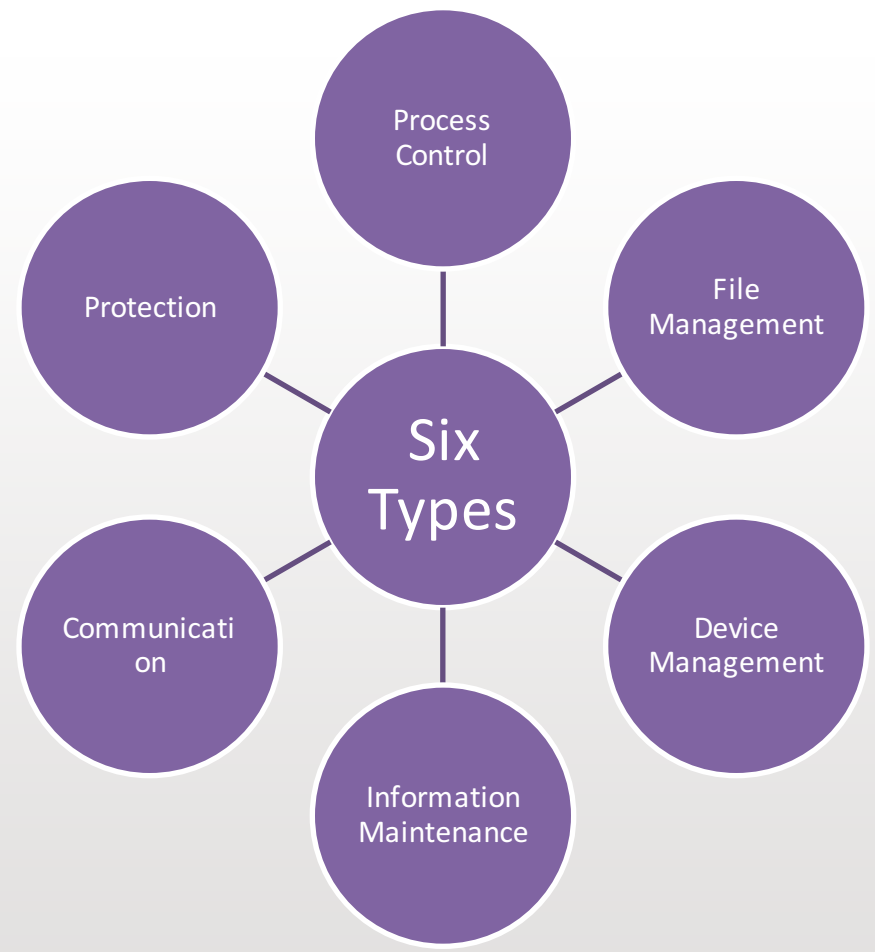


# OS Services





# System Calls





# Design and Implementation

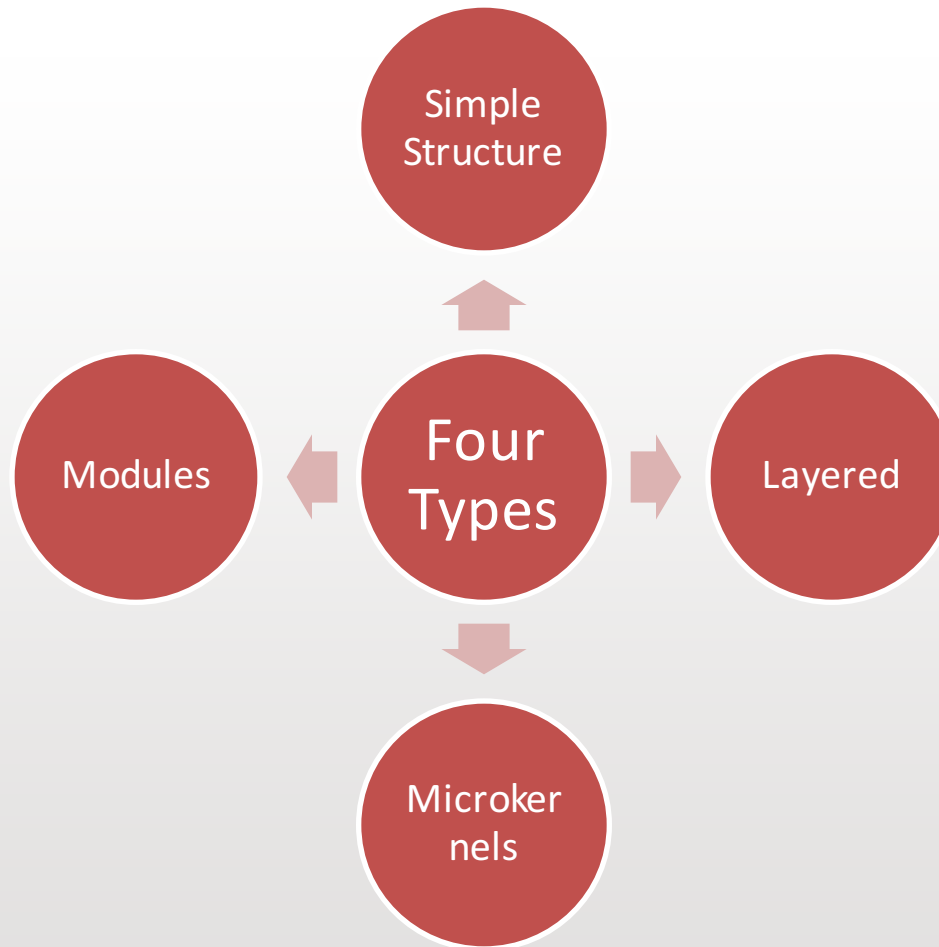
Design Goal

Mechanisms

Policies



# Structure





# Virtual Machine

- To abstract hardware of a computer into a **few execution environment**
- Identical interface to the core hardware
- Single machine can run multiple operating system



# Debugging

- Finding and fixing errors

## Failure Analysis

- Core dump
- Crash dump

## Performance Tuning

- Trace listing
- Interactive tool

## Dtrace

- Add probes in running process and kernel