

## File and Folder Management

1. **Custom File Explorer** - Design a file manager with advanced search and filtering options.
2. **Cloud Storage Integration** - Develop an OS feature that integrates seamlessly with cloud storage services.
3. **File Compression Tool** - Create a tool for compressing and decompressing files.
4. **Automated File Backup System** - Design a system that automatically backs up user files.
5. **Version Control System** - Develop a versioning system for managing file revisions.
6. **File Encryption Tool** - Create a tool for encrypting and decrypting files.
7. **Disk Partition Manager** - Design a tool for managing disk partitions efficiently.
8. **File Synchronization Tool** - Develop a tool for synchronizing files across multiple devices.
9. **Customizable File Tags** - Create a system for tagging files and folders with custom labels.
10. **Duplicate File Finder** - Design a tool for identifying and removing duplicate files.

## System Administration

11. **Remote Desktop Management** - Develop a feature for managing remote desktop connections.
12. **System Monitoring Dashboard** - Design a dashboard for monitoring system performance metrics.
13. **User Account Management Tool** - Create a tool for managing user accounts and permissions.
14. **Network Configuration Wizard** - Develop a wizard for setting up network configurations.
15. **System Resource Scheduler** - Design a scheduler for allocating system resources efficiently.
16. **Backup and Restore System** - Create a robust system for backing up and restoring the entire OS.
17. **System Update Manager** - Develop a manager for handling OS and software updates.
18. **System Health Check Tool** - Design a tool for checking and diagnosing system health issues.
19. **Service Manager** - Create a tool for managing system services and background processes.
20. **System Logging and Reporting** - Develop a logging and reporting system for system activities.

## Network Management

21. **Network Traffic Analyzer** - Design a tool for analyzing network traffic and bandwidth usage.
22. **Firewall Configuration Tool** - Develop a tool for configuring firewall rules and settings.
23. **Network Security Scanner** - Create a scanner for detecting vulnerabilities in the network.
24. **VPN Client Integration** - Design an integrated VPN client for secure network connections.
25. **Network Protocol Analyzer** - Develop a tool for analyzing network protocols and packets.
26. **Bandwidth Management System** - Design a system for managing and prioritizing network bandwidth.
27. **DNS Resolver** - Create a DNS resolver for translating domain names into IP addresses.
28. **Network Performance Optimizer** - Develop a tool for optimizing network performance.
29. **Wireless Network Manager** - Design a manager for configuring and monitoring wireless networks.
30. **Network Configuration Backup Tool** - Create a tool for backing up and restoring network configurations.

## User Management

31. **Multi-factor Authentication System** - Design a system that supports multi-factor authentication methods.
32. **User Profile Customization** - Develop a feature for customizing user profiles and settings.
33. **Guest User Mode** - Create a secure guest user mode with limited access.
34. **User Activity Monitoring Tool** - Design a tool for monitoring user activities and sessions.
35. **User Data Privacy Settings** - Develop customizable privacy settings for user data protection.
36. **Role-based Access Control System** - Design a system for implementing role-based access control.
37. **User Preferences Backup** - Create a system for backing up and restoring user preferences.
38. **User Interface Themes** - Develop customizable themes and layouts for user interfaces.
39. **User Account Migration Tool** - Design a tool for migrating user accounts between systems.
40. **User Data Syncing** - Develop a system for syncing user data across multiple devices.

## Data Backup and Restore

41. **Automated Backup Scheduler** - Design a scheduler for automated backups of user data.
42. **Incremental Backup System** - Develop a system for performing incremental backups efficiently.

43. **Backup Verification Tool** - Create a tool for verifying the integrity of backup files.
44. **Cross-platform Backup Compatibility** - Design a backup system compatible with multiple OS platforms.
45. **Cloud Backup Integration** - Develop a feature for backing up data to cloud storage services.
46. **Backup Encryption** - Create a system for encrypting backup files for enhanced security.
47. **Backup Versioning System** - Design a versioning system for managing backup revisions.
48. **Selective Backup Tool** - Develop a tool for selectively backing up specific files and folders.
49. **Backup Restore Point Manager** - Design a manager for managing backup restore points.
50. **Backup Reporting Dashboard** - Create a dashboard for monitoring and reporting backup activities.

## Security and Compliance

51. **Antivirus Integration** - Design an integrated antivirus system for malware detection and removal.
52. **Data Encryption Module** - Develop a module for encrypting data at rest and in transit.
53. **Security Patch Management** - Create a system for managing and applying security patches.
54. **Security Audit Tool** - Design a tool for conducting security audits and vulnerability assessments.
55. **User Access Auditing** - Develop a system for auditing and logging user access activities.
56. **File Integrity Checker** - Create a tool for verifying the integrity of system and user files.
57. **Secure Boot Integration** - Design a secure boot mechanism to protect against unauthorized access.
58. **Device Control Policies** - Develop policies for controlling and managing connected devices.
59. **Data Loss Prevention System** - Design a system for preventing accidental data loss and leaks.
60. **Compliance Reporting Tool** - Create a tool for generating compliance reports and certifications.

## Automation and Scripting

61. **Task Automation Scheduler** - Design a scheduler for automating routine tasks and workflows.
62. **Scripting Language Integration** - Develop support for scripting languages like Python or Bash.
63. **Automated Software Deployment** - Create a system for automated software installation and updates.

64. **Automated System Maintenance** - Design a system for automating routine system maintenance tasks.
65. **Workflow Automation Editor** - Develop an editor for creating and managing automated workflows.
66. **Event Triggered Actions** - Design a system for triggering actions based on system events.
67. **Automated Backup Script Generator** - Create a tool for generating backup and restore scripts.
68. **Task Dependency Management** - Develop a system for managing dependencies between automated tasks.
69. **Customizable Automation Templates** - Design templates for common automation tasks.
70. **Automated Report Generation** - Create a tool for automating the generation of reports and logs.

## Reporting and Monitoring

71. **System Performance Monitor** - Design a monitor for real-time system performance metrics.
72. **Resource Usage Tracker** - Develop a tool for tracking CPU, memory, and disk usage.
73. **Event Logging and Analysis** - Create a system for logging and analyzing system events.
74. **Application Performance Dashboard** - Design a dashboard for monitoring application performance.
75. **Network Traffic Analyzer** - Develop a tool for analyzing network traffic patterns and trends.
76. **Security Incident Dashboard** - Design a dashboard for monitoring and responding to security incidents.
77. **Hardware Health Monitor** - Create a tool for monitoring hardware health and diagnostics.
78. **Error Reporting System** - Design a system for collecting and reporting software errors and crashes.
79. **Customizable Monitoring Alerts** - Develop alerts for notifying users of critical system events.
80. **Data Visualization Tools** - Create tools for visualizing system and application performance data.

## Database Management

81. **Built-in Database System** - Develop a lightweight database management system within the OS.
82. **Database Backup and Recovery** - Design tools for backing up and recovering database data.

83. **SQL Query Interface** - Create an interface for executing SQL queries directly within the OS.
84. **Database User Management** - Develop tools for managing database user permissions and roles.
85. **Data Import/Export Tools** - Design tools for importing and exporting data from databases.
86. **Database Performance Tuning** - Develop tools for optimizing database performance and queries.
87. **Database Schema Designer** - Create a tool for designing and visualizing database schemas.
88. **Database Replication Tool** - Design a tool for replicating database data across multiple servers.
89. **Database Security Features** - Develop security features for protecting database data.
90. **Database Backup Scheduler** - Create a scheduler for automated database backups.

## Web Scraping and API Integration

91. **Web Scraping Tool** - Design a tool for extracting data from websites and web pages.
92. **API Management Console** - Develop a console for managing and testing APIs.
93. **Data Transformation and Integration** - Create tools for transforming and integrating data from various sources.
94. **Real-time Data Streaming** - Design a system for real-time data streaming from APIs.
95. **OAuth Integration** - Develop OAuth integration for secure API access.
96. **Batch Processing System** - Create a system for batch processing large volumes of API data.
97. **API Rate Limiting and Monitoring** - Design tools for monitoring and enforcing API rate limits.
98. **API Documentation Generator** - Develop a tool for generating API documentation.
99. **Data Validation and Cleaning** - Create tools for validating and cleaning data retrieved from APIs.
100. **Integration Testing Tools** - Design tools for testing API integrations and data consistency.