1. / (Root directory): The root directory is the top-level directory in the filesystem hierarchy. All other directories and files are contained within it.

2. /bin (Binaries): This directory contains essential executable binaries (programs) that are needed for system boot and repair. Common commands such as `ls`, `cp`, `mv`, `rm`, and many others reside here.

3. /boot (Boot files): Contains files necessary for the boot process, including the Linux kernel, bootloader configuration files, and sometimes initial RAM disk (initramfs) images.

4. /dev (Devices): This directory contains device files, which represent physical and virtual devices attached to the system. For example, hard drives, terminals, printers, and other hardware devices are represented as files in this directory.

5. /etc (Configuration files): Contains system-wide configuration files. Configuration files for various services, such as network settings (`/etc/network`), user authentication (`/etc/passwd`, `/etc/group`), and many others, are stored here.

6. /home (User home directories): Each user on the system typically has a subdirectory within `/home` where their personal files and configurations are stored. For example, the home directory for a user named "john" would be `/home/john`.

7. /lib (Libraries): Contains shared libraries needed by the programs in `/bin` and `/sbin`, as well as essential runtime libraries for the system.

8. /mnt (Mount point): Traditionally used as a mount point for temporarily mounting filesystems, such as external storage devices.

9. /opt (Optional software): This directory is used for installing optional software packages. Some third-party applications and large software packages may be installed here.

10. /proc (Process information): A virtual filesystem that provides information about running processes and system configuration. It's not a real filesystem but rather a mechanism for accessing kernel data structures.

11. /root (Root user's home directory): This is the home directory for the root user. Unlike regular users who have their home directories under `/home`, the root user's home directory is directly under the root directory.

12. /sbin (System binaries): Contains system administration binaries, which are typically used by the system administrator for maintenance tasks. These binaries are often essential for system boot and repair.

13. /srv (Service data): This directory contains data for services provided by the system. For example, data and files served by a web server may be located here.

14. /tmp (Temporary files): Used for temporary storage of files by applications and users. Files in this directory may be deleted automatically when the system reboots or periodically to free up disk space.

15. /usr (User files): Contains user-related programs, libraries, documentation, and other files that are not required for system boot. It's typically divided into subdirectories like `/usr/bin`, `/usr/lib`, `/usr/share`, etc.

16. /var (Variable data): Contains variable data files, such as log files (`/var/log`), spool files ('/var/spool`), and temporary files (`/var/tmp`). This directory often contains data that changes frequently during normal system operation.