

# System Information Retrieval

This code provides functions to retrieve various system information such as disk details, operating system version, hostname, username, and user home directory.

```
get_disks() -> Vec<String>
```

Retrieves the mounted points of the system disks.

**Returns:** A `Vec<String>` containing the mounted points of the system disks.

```
get_version() -> String
```

Retrieves the operating system version.

**Returns:** A `String` representing the operating system version.

```
get_hostname() -> String
```

Retrieves the hostname of the system.

**Returns:** A `String` representing the hostname.

```
get_username() -> String
```

Retrieves the username of the current user.

**Returns:** A `String` representing the username.

```
get_user_home() -> PathBuf
```

Retrieves the home directory path of the current user.

**Returns:** A `PathBuf` representing the user's home directory path.

## Disk Retrieval

The function `get_disks()` uses the `sysinfo` crate to retrieve system disk information. It iterates over the disks and extracts their mounted points into a `Vec<String>`.

## Operating System Version Retrieval

The function `get_version()` utilizes the `os_info` crate to retrieve the operating system information. It obtains the operating system type using `os_info::get().os_type()` and maps it to a human-readable string. The operating system version is retrieved using `os_info::get().version()`, and the version information is formatted into a string.

## Hostname Retrieval

The function `get_hostname()` leverages the `whoami` crate to retrieve the hostname of the system using `whoami::hostname()`.

## Username Retrieval

The function `get_username()` uses the `whoami` crate to retrieve the username of the current user using `whoami::username()`.

## User Home Directory Retrieval

The function `get_user_home()` utilizes the `home` crate to retrieve the home directory path of the current user. It uses `home::home_dir()` to obtain the `Option<PathBuf>` representing the user's home directory. If the home directory is found, it is returned as a `PathBuf`; otherwise, a fallback value of "unknown" is used.

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