Project: Librarian

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# *Use Case Textual Descriptions*

## **Use Cases**

### Organize Directory

#### Name:

Organize Directory

#### Actors:

PC User

#### Entry Condition:

PC User has selected a directory to be organized and has initiated the organization process.

#### Flow of Events:

1. PC User starts application.
2. PC User selects a directory to be organized.
3. PC User confirms the selection / “presses organize”.
4. System applies the organization algorithms to the selected directory as a virtual directory (not the directory itself but a virtual directory, the directory will be modified in step 7).
5. System displays summary / preview of proposed changes to the PC User.
6. PC User accepts changes (step 7 ) or declines changes (Exit Condition).
7. System takes the selected directory and modifies it to match virtual directory.
8. System alerts PC User organization is complete (Exit Condition).

#### Exit Conditions:

1. PC User declines changes.
2. System alerts PC User organization is complete.

#### Exceptions:

1. Directory is not accessible, or PC User does not have correct permissions for directory.
2. Item in directory is currently being used.
3. Organization algorithm fails.

#### Special Requirements:

None at the moment.

### Approve Changes

#### Name:

Approve Changes

#### Actors:

PC User

#### Entry Condition:

The system has proposed changes to the directory structure and presented a preview / summary of changes.

#### Flow of Events:

1. The PC User reviews the proposed changes displayed by the system.
2. The PC User accepts or declines the changes.

#### Exit Conditions:

1. PC User accepts the changes.
2. PC User declines the changes.

#### Exceptions:

1. PC User closes application.

#### Special Requirements:

None at the moment.

### Organize Subdirectory

#### Name:

Organize Subdirectory

#### Actors:

PC User

#### Entry Condition:

PC User calls Organize Directory. During step 4 Organize Directory calls Organize Subdirectory. This only happens when the PC User selected directory contains subdirectories.

#### Flow of Events:

1. System analyzes the selected subdirectory.
2. System applies the organization algorithms to the selected sub directory as a virtual directory (not the directory itself but a virtual directory, the directory will be modified in step 7 of Organize Directory).
3. System returns organized virtual subdirectory (Exit Condition).

#### Exit Condition:

1. System returns organized virtual subdirectory (Exit Condition).

#### Exceptions:

1. Directory is not accessible, or PC User does not have correct permissions for directory.
2. Item in directory is currently being used.
3. Organization algorithm fails.

#### Special Requirements:

None at the moment.

### Rename Directory

#### Name:

Rename Directory

#### Actors / Services:

PC User and Rename Directory Service

#### Entry Condition:

PC User calls Organize Directory. During step 4 Organize Directory calls Rename Directory.

#### Flow of Events:

1. System analyses the selected directory and sends information about the directory to the Rename Directory Service.
2. The Directory Service Returns a recommended name.
3. System renames the virtual directory to the recommended name.

#### Exit Condition:

1. System renames the virtual directory to the recommended name.

#### Exceptions:

1. System failed to analyze directory.
2. System failed to send information to Rename Directory Service.
3. Rename Directory Service fails.
4. System fails to rename virtual directory.

#### Special Requirements:

None at the moment.

### Categorize Directory

#### Name:

Categorize Directory

#### Actors / Services:

PC User and Categorize Directory Service

#### Entry Condition:

PC User calls Organize Directory. During step 4 Organize Directory calls Categorize Directory.

#### Flow of Events:

1. System analyses the selected directory and sends information about the directory to the Categorize Directory Service.
2. Categorize Directory Service returns a list of categorized directory items.
3. System modifies the virtual directory to make each category a new subdirectory.
4. System places each item into its corresponding category subdirectory.

#### Exit Condition:

1. System has finished placing each item into its corresponding category subdirectory.

#### Exceptions:

1. System fails to send information to Categorize Directory Service.
2. Categorize Directory Service fails.
3. System fails to create new category subdirectories.
4. System fails to place items into corresponding category sub directory.

#### Special Requirements:

None at the moment.

## **Actors / Services**

### Windows User

#### Description:

A user operating the Librarian tool on a Windows operating system.

### Mac User

#### Description:

A user operating the Librarian tool on a macOS operating system.

### Linux User

#### Description:

A user operating the Librarian tool on a Linux distribution.

### PC User

#### Description:

A general user operating the Librarian tool on any personal computer running Windows, Mac, or Linux.

### Rename Directory Service

#### Description:

A backend service that handles the logic and operations required to rename directories within the user's file system.

### Categorize Directory Service

#### Description:

A backend service responsible for analyzing and categorizing files within a selected directory.