

# HarmonyHaven by TechFusion Repairs LLC

## User Manual

*Version 1.0*

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## 1. Introduction

Welcome to **HarmonyHaven by TechFusion Repairs LLC**, the ultimate tool for managing and organizing your digital music collection! This program allows you to scan music directories, find duplicate tracks, organize them by genre and year, and even search for specific songs.

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## 2. System Requirements

- **Operating System:** Windows, macOS, or Linux.
- **Python:** Version 3.8 or higher.
- **Dependencies:**

- `mutagen` for handling music metadata (install via `pip install mutagen`).
  - `glob` and `hashlib` (built-in Python libraries).
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## 3. Installation

### Step 1: Download the Program

1. Download the **HarmonyHaven** package from the official GitHub repository or from the TechFusion Repairs LLC Google Drive.
2. Unzip the package to a folder on your computer.

### Step 2: Install Required Dependencies

1. Open a terminal or command prompt.

Install the required Python library `mutagen` by running:

bash

Copy code

```
pip install mutagen
```

- 2.

### Step 3: Run the Program

1. Navigate to the directory where you unzipped the program.

Run the program using the following command:

bash

Copy code

```
python harmonyhaven.py
```

- 2.
- 

## 4. Features

- **Music File Scanning:** Quickly scan directories for supported music files.
- **Duplicate Detection:** Detect and remove duplicate music files based on file hashes.
- **Organization:** Automatically organize music by genre and year, or create custom folder structures.

- **Search Function:** Search for specific songs by name.
  - **User Prompts:** Easy-to-follow prompts guide you through each step.
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## 5. How to Use HarmonyHaven

### 5.1 Scanning for Music Files

When you run the program, HarmonyHaven will prompt you to enter the directory where your music files are stored:

1. Input the full path to the folder containing your music collection (e.g., `C:\\Music`).
2. The program will scan for music files with the following extensions: `.mp3`, `.flac`, `.wav`, `.m4a`.

### 5.2 Finding Duplicate Files

After scanning your directory:

1. HarmonyHaven will calculate the hash of each file to identify duplicates.
2. If duplicates are found, the program will ask you to select which file(s) to keep and delete the rest.
3. Deleted duplicates will be permanently removed from your folder.

### 5.3 Organizing Music Files

HarmonyHaven can organize your music collection based on **genre** and **year**:

1. After scanning for music files, the program will ask if you'd like to sort them by year within each genre.
2. Music files will be moved into folders named after their genre and (if applicable) year.

Example:

yaml

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```
C:\\Music
├── Rock
│   ├── 1990
│   └── 2000
├── Jazz
└── No Genre
```

— No Year

## 5.4 Searching for Songs

To search for a specific song:

1. After organizing your files, the program will ask if you want to search for a specific song.
  2. Enter the song name (or part of the name) when prompted.
  3. HarmonyHaven will search for files matching the song name and display the results.
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## 6. FAQs

### Q1: What happens if I don't have metadata for genre or year?

If no genre or year is found in a music file's metadata, HarmonyHaven will move the file to a "No Genre" or "No Year" folder.

### Q2: Can I undo the deletion of duplicate files?

No, deleted files are permanently removed, so ensure you select the correct files to keep.

### Q3: Can I use HarmonyHaven to organize music by other criteria?

Currently, HarmonyHaven organizes files by genre and year. Future updates may add more criteria like Beats Per Minute (BPM) or track length.

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## 7. Support and Contact Information

For any issues, suggestions, or feedback, please contact:

- **Email:** TechFusionRepairs@gmail.com
  - **Social Media:** Follow us on X (Twitter): @TechFusionRep
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## 8. License

This program is licensed under the **MIT License**. You are free to use, modify, and distribute the software under the conditions described in the license.

For more information, please see the [LICENSE](#) file included with this program.

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*Thank you for choosing HarmonyHaven by TechFusion Repairs LLC!*