

PROGRAM:

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import csv
import os

CSV_FILE = 'movie_archive.csv'

if not os.path.exists(CSV_FILE):

    with open(CSV_FILE, mode='w', newline='') as file:

        writer = csv.writer(file)

        writer.writerow(['Movie Name', 'Director', 'Year of Release'])

def create_movie(movie_name, director, year):

    with open(CSV_FILE, mode='a', newline='') as file:

        writer = csv.writer(file)

        writer.writerow([movie_name, director, year])

    print(f'Movie "{movie_name}" added successfully!')

def read_movies():

    with open(CSV_FILE, mode='r') as file:

        reader = csv.reader(file)

        next(reader) # Skip header row

        movies = list(reader)

        if movies:

            print("\nMovie Archive:")

            for idx, row in enumerate(movies, start=1):

                print(f'{idx}. Movie Name: {row[0]}, Director: {row[1]}, Year: {row[2]}')

        else:

            print("\nNo movies found in the archive.")

def update_movie(movie_name, new_director=None, new_year=None):

    updated = False

    movies = []

    with open(CSV_FILE, mode='r') as file:

        reader = csv.reader(file)
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movies = list(reader)

for row in movies:
    if row[0].lower() == movie_name.lower():
        if new_director:
            row[1] = new_director
        if new_year:
            row[2] = new_year
        updated = True
        break

with open(CSV_FILE, mode='w', newline='') as file:
    writer = csv.writer(file)
    writer.writerows(movies)

if updated:
    print(f'Movie "{movie_name}" updated successfully!')
else:
    print(f'Movie "{movie_name}" not found in the archive.')

def delete_movie(movie_name):
    deleted = False
    movies = []

    with open(CSV_FILE, mode='r') as file:
        reader = csv.reader(file)
        movies = list(reader)

    new_movies = [row for row in movies if row[0].lower() != movie_name.lower()]

    if len(movies) != len(new_movies):
        deleted = True

    with open(CSV_FILE, mode='w', newline='') as file:
        writer = csv.writer(file)
        writer.writerows(new_movies)

    if deleted:

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        print(f'Movie "{movie_name}" deleted successfully!')
    else:
        print(f'Movie "{movie_name}" not found in the archive.')
def main():
    while True:
        print("\n— Historic Movie Archive System —")
        print("1. Add a new movie")
        print("2. View all movies")
        print("3. Update a movie")
        print("4. Delete a movie")
        print("5. Exit")
        choice = input("Enter your choice (1-5): ")
        if choice == '1':
            movie_name = input("Enter movie name: ")
            director = input("Enter director name: ")
            year = input("Enter year of release: ")
            create_movie(movie_name, director, year)
        elif choice == '2':
            read_movies()
        elif choice == '3':
            movie_name = input("Enter movie name to update: ")
            new_director = input("Enter new director name (or press Enter to skip): ")
            new_year = input("Enter new year of release (or press Enter to skip): ")
            update_movie(movie_name, new_director, new_year)
        elif choice == '4':
            movie_name = input("Enter movie name to delete: ")
            delete_movie(movie_name)
        elif choice == '5':
            print("Exiting...")
            break

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HISTORIC FILM ARCHIEVE SYSTEM POC

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    else:
        print("Invalid choice, please try again.")
if __name__ == "__main__":
    main()

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OUTPUT:

— Historic Movie Archive System —

1. Add a new movie :
 2. View all movie :
 3. Update a movie :
 4. Delete a movie :
 5. Exit :
- Enter your choice (1-5):