#!/bin/bash

# === Styled Dividers and Colors ===

divider="====================================="

bold\_divider="\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"

red="\033[1;31m"

green="\033[1;32m"

blue="\033[1;34m"

cyan="\033[1;36m"

yellow="\033[1;33m"

magenta="\033[1;35m"

white="\033[1;37m"

bright\_blue="\033[1;94m"

bright\_green="\033[1;92m"

bright\_cyan="\033[1;96m"

reset="\033[0m"

# === File to store movie details and bookings ===

movie\_file="movies.txt"

booking\_file="bookings.txt"

# === Initialize files ===

if [[ ! -f $movie\_file ]]; then

touch $movie\_file

fi

if [[ ! -f $booking\_file ]]; then

touch $booking\_file

fi

# === Styled Header ===

styled\_header() {

echo -e "${bright\_blue}$bold\_divider${reset}"

echo -e "${bright\_green}🌟 WELCOME TO CINEMA MANAGEMENT SYSTEM 🌟${reset}"

echo -e "${bright\_blue}$bold\_divider${reset}"

}

# === Main Menu ===

main\_menu() {

clear

styled\_header

echo -e "${bright\_green}1.${reset} 🎫 ${yellow}Admin Panel${reset}"

echo -e "${bright\_cyan}2.${reset} 🎥 ${green}User Panel${reset}"

echo -e "${red}3.${reset} 🚪 ${red}Exit${reset}"

echo -e "${bright\_blue}$divider${reset}"

read -p "Enter your choice: " choice

case $choice in

1) admin\_menu ;;

2) user\_menu ;;

3) echo -e "${yellow}Goodbye!${reset}" && exit 0 ;;

\*) echo -e "${red}Invalid choice! Please try again.${reset}" && sleep 1 && main\_menu ;;

esac

}

# === Admin Panel ===

admin\_menu() {

clear

echo -e "${cyan}$bold\_divider${reset}"

echo -e "🔑 ${magenta}ADMIN PANEL${reset} 🔑"

echo -e "${cyan}$bold\_divider${reset}"

echo -e "${green}1.${reset} ➕ Add a Movie"

echo -e "${yellow}2.${reset} 📄 View Movies"

echo -e "${magenta}3.${reset} ✏️ Edit Movie Details"

echo -e "${red}4.${reset} 🗑️ Delete a Movie"

echo -e "${blue}5.${reset} 🔙 Back to Main Menu"

echo -e "${cyan}$divider${reset}"

read -p "Enter your choice: " admin\_choice

case $admin\_choice in

1) add\_movie ;;

2) view\_movies; read -p "Press Enter to go back." && admin\_menu ;;

3) edit\_movie ;;

4) delete\_movie ;;

5) main\_menu ;;

\*) echo -e "${red}Invalid choice! Try again.${reset}" && sleep 1 && admin\_menu ;;

esac

}

# === Add a Movie ===

add\_movie() {

clear

echo -e "${green}Add a New Movie${reset}"

echo -e "$divider"

read -p "Enter movie name: " movie\_name

read -p "Enter available seats: " seats

read -p "Enter movie timings (e.g., 3:00 PM, 6:00 PM): " timings

echo "$movie\_name,$seats,\"$timings\"" >> $movie\_file

echo -e "${bright\_green}Movie added successfully!${reset}"

sleep 1

admin\_menu

}

# === View Movies ===

view\_movies() {

echo -e "${yellow}Available Movies${reset}"

echo -e "$divider"

if [[ ! -s $movie\_file ]]; then

echo -e "${red}No movies available.${reset}"

else

printf "${bright\_cyan}%-20s%-10s%-20s${reset}\n" "Movie Name" "Seats" "Timings"

echo -e "$divider"

while IFS=',' read -r name seats timings; do

printf "${white}%-20s${reset}%-10s%-20s\n" "$name" "$seats" "$timings"

done < $movie\_file

fi

echo -e "$divider"

}

# === Edit Movie ===

edit\_movie() {

clear

echo -e "${magenta}Edit Movie Details${reset}"

echo -e "$divider"

view\_movies

read -p "Enter the name of the movie to edit: " movie\_name

if grep -q "^$movie\_name," $movie\_file; then

read -p "Enter new available seats: " seats

read -p "Enter new timings: " timings

sed -i "s/^$movie\_name,.\*/$movie\_name,$seats,\"$timings\"/" $movie\_file

echo -e "${bright\_green}Movie details updated successfully!${reset}"

else

echo -e "${red}Movie not found!${reset}"

fi

sleep 1

admin\_menu

}

# === Delete Movie ===

delete\_movie() {

clear

echo -e "${red}Delete a Movie${reset}"

echo -e "$divider"

view\_movies

read -p "Enter the name of the movie to delete: " movie\_name

if grep -q "^$movie\_name," $movie\_file; then

read -p "Are you sure you want to delete '$movie\_name'? (y/n): " confirm

if [[ $confirm == "y" || $confirm == "Y" ]]; then

grep -v "^$movie\_name," $movie\_file > temp.txt && mv temp.txt $movie\_file

echo -e "${bright\_green}Movie deleted successfully!${reset}"

else

echo -e "${yellow}Deletion cancelled.${reset}"

fi

else

echo -e "${red}Movie not found!${reset}"

fi

sleep 1

admin\_menu

}

# === User Panel ===

user\_menu() {

clear

echo -e "${bright\_cyan}$bold\_divider${reset}"

echo -e "🎥 ${bright\_blue}USER PANEL${reset} 🎥"

echo -e "${bright\_cyan}$bold\_divider${reset}"

echo -e "${yellow}1.${reset} 📄 View Movies"

echo -e "${green}2.${reset} 🎟️ Book Tickets"

echo -e "${blue}3.${reset} 🔍 Search Movies"

echo -e "${magenta}4.${reset} 📝 View Booking Summary"

echo -e "${red}5.${reset} 🔙 Back to Main Menu"

echo -e "${bright\_cyan}$divider${reset}"

read -p "Enter your choice: " user\_choice

case $user\_choice in

1) view\_movies; read -p "Press Enter to go back." && user\_menu ;;

2) book\_tickets ;;

3) search\_movies ;;

4) view\_bookings ;;

5) main\_menu ;;

\*) echo -e "${red}Invalid choice! Try again.${reset}" && sleep 1 && user\_menu ;;

esac

}

# === Book Tickets ===

book\_tickets() {

clear

echo -e "${green}🎟️ Book Tickets${reset}"

echo -e "$divider"

view\_movies

read -p "Enter the name of the movie you want to book tickets for: " movie\_name

# Check if the movie exists

if grep -q "^$movie\_name," $movie\_file; then

# Get the available seats

available\_seats=$(grep "^$movie\_name," $movie\_file | cut -d',' -f2)

if [[ $available\_seats -gt 0 ]]; then

# Ask user for number of tickets

read -p "Enter the number of tickets: " num\_tickets

if (( num\_tickets <= available\_seats )); then

# Update the available seats in the movie file

new\_seats=$((available\_seats - num\_tickets))

sed -i "s/^$movie\_name,$available\_seats/ $movie\_name,$new\_seats/" $movie\_file

# Save the booking in the booking file

echo "$movie\_name,$num\_tickets" >> $booking\_file

echo -e "${bright\_green}Booking successful! You have booked $num\_tickets ticket(s).${reset}"

else

echo -e "${red}Not enough seats available! Only $available\_seats seats are left.${reset}"

fi

else

echo -e "${red}Sorry, no seats available for this movie.${reset}"

fi

else

echo -e "${red}Movie not found! Please enter a valid movie name.${reset}"

fi

sleep 1

user\_menu

}

# === Search Movies ===

search\_movies() {

clear

echo -e "${blue}🔍 Search Movies${reset}"

echo -e "$divider"

read -p "Enter the movie name to search for: " search\_term

if grep -iq "$search\_term" $movie\_file; then

echo -e "${yellow}Matching Movies:${reset}"

echo -e "$divider"

grep -i "$search\_term" $movie\_file | while IFS=',' read -r name seats timings; do

echo -e "${white}$name - Seats: $seats, Timings: $timings${reset}"

done

else

echo -e "${red}No movies found matching '$search\_term'.${reset}"

fi

echo -e "$divider"

read -p "Press Enter to go back." && user\_menu

}

# === View Booking Summary ===

view\_bookings() {

clear

echo -e "${magenta}Booking Summary${reset}"

echo -e "$divider"

if [[ ! -s $booking\_file ]]; then

echo -e "${red}No bookings found.${reset}"

else

echo -e "${yellow}Your Bookings:${reset}"

while IFS=',' read -r movie tickets; do

echo -e "${white}Movie: $movie - Tickets: $tickets${reset}"

done < $booking\_file

fi

echo -e "$divider"

read -p "Press Enter to go back." && user\_menu

}

# Start the script

main\_menu