#include <stdio.h>

#include <stdlib.h>

typedef struct {

char name[100];

char destination[100];

char time[100];

} Ticket;

typedef struct node {

Ticket ticket;

struct node\* next;

} Node;

Node\* head = NULL;

int validateID(int id) {

if (id >= 1 && id <= 1000)

return 1;

else {

printf("Wrong ID. Please enter a valid ID (1-1000).\n");

return 0;

}

}

void checkVerificationID() {

int id;

printf("Enter verification ID: ");

scanf("%d", &id);

if (validateID(id))

printf("Yes, please enter.\n");

}

void checkParcelID() {

int id;

printf("Enter parcel ID: ");

scanf("%d", &id);

if (validateID(id))

printf("Yes, please enter.\n");

}

void checkTicketNumber() {

int number;

printf("Enter ticket number: ");

scanf("%d", &number);

if (validateID(number))

printf("Yes, please enter.\n");

}

void bookTicket() {

Ticket newTicket;

printf("Enter passenger name: ");

scanf("%s", newTicket.name);

printf("Enter destination: ");

scanf("%s", newTicket.destination);

printf("Enter time: ");

scanf("%s", newTicket.time);

Node\* newNode = (Node\*)malloc(sizeof(Node));

newNode->ticket = newTicket;

newNode->next = NULL;

if (head == NULL) {

head = newNode;

} else {

Node\* current = head;

while (current->next != NULL)

current = current->next;

current->next = newNode;

}

printf("Ticket booked successfully.\n");

}

void displayBookedTickets() {

if (head == NULL) {

printf("No tickets booked yet.\n");

return;

}

printf("Booked Tickets:\n");

Node\* current = head;

int count = 1;

while (current != NULL) {

printf("Ticket %d:\n", count);

printf("Passenger Name: %s\n", current->ticket.name);

printf("Destination: %s\n", current->ticket.destination);

printf("Time: %s\n", current->ticket.time);

printf("------------------------\n");

current = current->next;

count++;

}

}

int main() {

int choice;

do {

printf("Airport Entrance Management System\n");

printf("1. Check Verification ID\n");

printf("2. Check Parcel ID\n");

printf("3. Check Ticket Number\n");

printf("4. Book Ticket\n");

printf("5. Display Booked Tickets\n");

printf("6. Exit\n");

printf("Enter your choice: ");

scanf("%d", &choice);

switch (choice) {

case 1:

checkVerificationID();

break;

case 2:

checkParcelID();

break;

case 3:

checkTicketNumber();

break;

case 4:

bookTicket();

break;

case 5:

displayBookedTickets();

break;

case 6:

printf("Exiting...\n");

break;

default:

printf("Invalid choice. Please try again.\n");

}

printf("\n");

} while (choice != 6);

return 0;

}