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Code :

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#define MAX\_URL 100

#define MAX\_HISTORY 100

typedef struct Tab {

int pageID;

char url[MAX\_URL];

struct Tab\* prev;

struct Tab\* next;

} Tab;

Tab\* head = NULL;

Tab\* current = NULL;

int pageCounter = 1;

char history[MAX\_HISTORY][MAX\_URL];

int historyCount = 0;

Tab\* createTab(char url[]) {

Tab\* newTab = (Tab\*)malloc(sizeof(Tab));

newTab->pageID = pageCounter++;

strcpy(newTab->url, url);

newTab->prev = NULL;

newTab->next = NULL;

return newTab;

}

void visitPage() {

char url[MAX\_URL];

printf("Enter URL: ");

scanf("%s", url);

Tab\* newTab = createTab(url);

strcpy(history[historyCount++], url);

if (head == NULL) {

head = newTab;

current = newTab;

} else {

current->next = newTab;

newTab->prev = current;

current = newTab;

}

printf("Visited: %s (PageID: %d)\n", current->url, current->pageID);

}

void goForward() {

if (current != NULL && current->next != NULL) {

current = current->next;

printf("Moved Forward → %s (PageID: %d)\n", current->url, current->pageID);

} else {

printf("No next tab available.\n");

}

}

void goBack() {

if (current != NULL && current->prev != NULL) {

current = current->prev;

printf("Moved Back ← %s (PageID: %d)\n", current->url, current->pageID);

} else {

printf("No previous tab available.\n");

}

}

void showCurrentTab() {

if (current != NULL) {

printf("Current Tab → %s (PageID: %d)\n", current->url, current->pageID);

} else {

printf("No tab is open.\n");

}

}

void closeCurrentTab() {

if (current == NULL) {

printf("No tab to close.\n");

return;

}

Tab\* temp = current;

if (current->prev != NULL) {

current->prev->next = current->next;

}

if (current->next != NULL) {

current->next->prev = current->prev;

}

if (temp == head) {

head = current->next;

}

current = (temp->next != NULL) ? temp->next : temp->prev;

printf("Closed Tab: %s (PageID: %d)\n", temp->url, temp->pageID);

free(temp);

}

void showHistory() {

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

for (int i = 0; i < historyCount; i++) {

printf("%d. %s\n", i + 1, history[i]);

}

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

}

int main() {

int choice;

do {

printf("\n=== Browser Menu ===\n");

printf("1. Visit a new page\n");

printf("2. Go back\n");

printf("3. Go forward\n");

printf("4. Show current tab\n");

printf("5. Close current tab\n");

printf("6. Show history\n");

printf("7. Exit\n");

printf("Enter choice: ");

scanf("%d", &choice);

switch (choice) {

case 1: visitPage(); break;

case 2: goBack(); break;

case 3: goForward(); break;

case 4: showCurrentTab(); break;

case 5: closeCurrentTab(); break;

case 6: showHistory(); break;

case 7: printf("Exiting Browser...\n"); break;

default: printf("Invalid choice!\n");

}

} while (choice != 7);

return 0;

}