typedef struct PM //phieu muon

{ int MaPM;

date DateM; //ngay muon

char TenNM[30]; //ten nguoi muon

char MSSV[10]; //ma so sinh vien

int ss; //tong so sach cho muon

};

typedef struct ListPM

{ PM \*PhM;

int sp; //so phieu

int ma; //ma phieu duoc lay tu dong

};

typedef struct date

{ unsigned int ng, th, na; };

Class phieumuon

int TimPM( ListPM a, int x) //ham tim vi tri 1 phieu muon trong danh sach phieu muon

{ while( (a.sp>0) && ( a.PhM[a.sp].MaPM != x) )

a.sp--;

return a.sp;

}

void ThemPM( ListPM &a, TV &b)

{ system("cls");

cout<<"\n\t Moi nhap thong tin phieu muon:";

a.ma ++; a.PhM[a.sp].MaPM = a.ma;

cout<<"\n Ma phieu( Auto): Phieu so " << a.PhM[a.sp].MaPM ;

cout<<"\n Date : "; LayNgay(a.PhM[a.sp].DateM);

cout<<"\n Ten nguoi muon : "; gets(a.PhM[a.sp].TenNM);

cout<<"\n Ma so sinh vien: "; gets(a.PhM[a.sp].MSSV);

LL1:cout<<"\n So sach can muon( toi da 10 cuon): "; cin>>a.PhM[a.sp].ss;

if( ( a.PhM[a.sp].ss <1) || ( a.PhM[a.sp].ss >10) ) goto LL1;

for( int x=1; x <= a.PhM[a.sp].ss; x++)

{ cout<<"\n-------------------------------------------------------------------------------";

cout<<"\n\t Nhap sach muon thu "<<x;

cout<<"\n Ma sach : "; gets( a.PhM[a.sp].sak[x].mss);

}

a.sp ++;

cout<<"\n\t Da them thanh cong.";

}

void XoaPM( ListPM &a, TV b)

{ system("cls");

int x;

cout<<"\n Ma phieu can xoa: "; cin>>x;

for(i; i<=a.sp; i++)

a.PhM[i]=a.PhM[i+1];

a.sp --;

cout<<"\n\t Da xoa thanh cong.";

}

void SuaPM( ListPM &a, TV &b)

{ system("cls");

int z;

cout<<"\n\t Ma phieu can sua: "; cin>>z;

cout<<"\n\t Moi nhap thong tin phieu muon:";

textcolor(LIGHTGRAY);

cout<<"\n Ma phieu( Auto): Phieu so " << a.PhM[i].MaPM ;

cout<<"\n Date : " << a.PhM[i].DateM.ng << "-" << a.PhM[i].DateM.th << "-" << a.PhM[i].DateM.na ;

cout<<"\n Ten nguoi muon : "; gets( a.PhM[i].TenNM);

cout<<"\n Ma so sinh vien: "; gets( a.PhM[i].MSSV);

LL1:cout<<"\n So sach can muon( toi da 10 cuon): "; cin>>a.PhM[i].ss;

if( ( a.PhM[i].ss <1) || ( a.PhM[i].ss >10) ) goto LL1;

for( int x=1; x <= a.PhM[i].ss; x++)

{ cout<<"\n-------------------------------------------------------------------------------";

cout<<"\n\t Nhap sach muon thu "<<x;

LL2:cout<<"\n Ma sach : "; gets( a.PhM[i].sak[x].mss);

}

cout<<"\n\t Da sua thanh cong.";

}

void InPM( ListPM a, TV b)

{ system("cls");

int x;

cout<<"\n\t Ma phieu can in: "; cin>>x;

cout<<"\n Ma phieu : Phieu so " << a.PhM[i].MaPM ;

cout<<"\n Date : " << a.PhM[i].DateM.ng << "-" << a.PhM[i].DateM.th << "-" << a.PhM[i].DateM.na ;

cout<<"\n Ten nguoi muon : " << a.PhM[i].TenNM;

cout<<"\n Ma so sinh vien: " << a.PhM[i].MSSV;

printf("\n Muon %d cuon sach gom: ", a.PhM[i].ss);

for( int y =1; y <= a.PhM[i].ss; y++)

cout<< "\nº" << a.PhM[i].sa[y].MaSa << setw(12-strlen(a.PhM[i].sa[y].MaSa)) << "³" << a.PhM[i].sa[y].Tra << setw(24) << "³" << a.PhM[i].sa[y].TTSa << setw(41-strlen(a.PhM[i].sa[y].TTSa)) <<"º";

}

void InListPM( ListPM a, TV b)

{ system("cls");

cout<<"\n DANH SACH CAC PHIEU MUON ";

cout<<"\nºMa phieu so³ Ten nguoi muon ³So sach muon³ Ngay muon º";

for(int i=1; i< a.sp; i++)

cout<< "\nº" << a.PhM[i].MaPM << setw(11) << "³" << a.PhM[i].TenNM << setw(31-strlen(a.PhM[i].TenNM)) << "³" << a.PhM[i].ss << setw(12) << "³" << a.PhM[i].DateM.ng << "-" << a.PhM[i].DateM.th << "-" << a.PhM[i].DateM.na ;

DenMenu(b,a);

}

void DocFilePM( ListPM &a) //hàm doc file phieu muon de luu vao danh sach phieu muon

{ FilePM = fopen("FilePM","rb");

while( fread( &a.PhM[a.sp], sizeof(PM), 1, FilePM) ==1)

a.sp++;

fclose(FilePM);

}

void GhiFilePM( ListPM a) //ghi vao file phieu muon

{ FileSa = fopen("FilePM","wb");

for( int i=1; i < a.sp; i++)

fwrite( &a.PhM[i], sizeof(PM), 1, FilePM);

fclose(FileSa);

}