**Books**

import java.io.\*;

import java.util.Scanner;

public class Books {

static Scanner input = new Scanner(System.in);

public static void showMenu() {

System.out.println("Add:1i List:2, Search:3, Delete:4, Update:5");

}

public static void main(String[] args) throws IOException {

while(true) {

showMenu();

System.out.println(">>>");

int num= input.nextInt();

switch (num) {

case 1: {

addBook();

break;

}

case 2: {

listBook();

break;

}

case 3: {

searchBook();

break;

}

case 4: {

deleteLine();

break;

}

case 5: {

updateLine();

break;

}

default:

throw new IllegalArgumentException("Unexpected value: " + num);

}

}

}

public static void addBook() throws IOException {

String title, author, category, publicationYear, price;

System.out.print("Title? ");

title = input.next();

System.out.print("author? ");

author = input.next();

System.out.print("category? ");

category = input.next();

System.out.print("publicationYear? ");

publicationYear = input.next();

System.out.print("price? ");

price = input.next();

writeFile(title, author, category, publicationYear, price);

}

public static void writeFile(String title,String author,String category,String publicationYear,String price) throws IOException {

File f = new File("/Users/ataemir/projects/Java Projects/AdvancedJava/Books/src/books");

FileWriter fWriter = new FileWriter(f,true);

BufferedWriter bWriter = new BufferedWriter(fWriter);

bWriter.append(title+"\t"+author+"\t"+category+"\t"+publicationYear+"\t"+price+"\n");

bWriter.close();

System.out.println("Writing operation is done...");

}

public static void listBook() throws IOException {

File f = new File("/Users/ataemir/projects/Java Projects/AdvancedJava/Books/src/books");

FileReader fReader = new FileReader(f);

BufferedReader bReader=new BufferedReader(fReader);

boolean isExist = false;

String line = bReader.readLine();

int i =1;

StringBuilder sBuilder = new StringBuilder();

while(line!=null) {

sBuilder.append(i+") "+line+"\n");

line=bReader.readLine();

isExist = true;

i++;

}

bReader.close();

if (isExist) {

System.out.println(sBuilder.toString());

System.out.println("Reading operation is done...");

} else {

System.out.println("There are no Books");

}

}

public static void lookTitleBook(String title) throws IOException {

File f = new File("/Users/ataemir/projects/Java Projects/AdvancedJava/Books/src/books");

FileReader fReader = new FileReader(f);

BufferedReader bReader=new BufferedReader(fReader);

String line = bReader.readLine();

while(line!=null) {

if (line.contains(title)) {

System.out.println(line);

}

line=bReader.readLine();

}

bReader.close();

}

public static void searchBook() throws IOException {

System.out.println("Whats your looking book title? ");

String title = input.next();

lookTitleBook(title);

}

public static void updateLine() throws IOException {

int index = whatsYourIndex();

System.out.println("What are you updating this book?");

System.out.println("title:1 author:2 category:3 publicationYear:4 price:5 ");

int num = input.nextInt();

System.out.print("What is the new value? ");

String newValue = input.next();

File f = new File("/Users/ataemir/projects/Java Projects/AdvancedJava/Books/src/books");

FileReader fReader = new FileReader(f);

BufferedReader bReader=new BufferedReader(fReader);

int i = 1;

String line = bReader.readLine();

StringBuilder sBuilder = new StringBuilder();

while(line!=null) {

if (i!=index) {

sBuilder.append(line+"\n");

} else {

String[] parts = line.split("\t");

parts[num-1] = newValue;

sBuilder.append(parts[0]+"\t"+parts[1]+"\t"+parts[2]+"\t"+parts[3]+"\t"+parts[4]+"\n");

}

line=bReader.readLine();

i++;

}

bReader.close();

FileWriter fWriter = new FileWriter(f,false);

BufferedWriter bWriter = new BufferedWriter(fWriter);

bWriter.write(sBuilder.toString());

bWriter.close();

System.out.println("Updating operation done....");

listBook();

}

public static void deleteLine() throws IOException {

int index = whatsYourIndex();

File f = new File("/Users/ataemir/projects/Java Projects/AdvancedJava/Books/src/books");

FileReader fReader = new FileReader(f);

BufferedReader bReader=new BufferedReader(fReader);

int i = 1;

String line = bReader.readLine();

StringBuilder sBuilder = new StringBuilder();

while(line!=null) {

if (i!=index) {

sBuilder.append(line+"\n");

}

line=bReader.readLine();

i++;

}

bReader.close();

FileWriter fWriter = new FileWriter(f,false);

BufferedWriter bWriter = new BufferedWriter(fWriter);

bWriter.write(sBuilder.toString());

bWriter.close();

System.out.println("Deleting operation done...");

listBook();

}

public static int whatsYourIndex() throws IOException {

listBook();

System.out.println("Whats your deleting/updating book index? ");

int index = input.nextInt();

return index;

}

}





