

## VARIABLE DESCRIPTION

### Class Title\_Page

Variable/Object Name	Data Type	Description
index	Index	An Object of the Index Class

### Class Index

Variable/Object Name	Data Type	Description
ch	private int	Stores User's choice
sc	Scanner	Scans and reads the input
signIn	Sign_In	An Object of the Sign_In Class
signUp	Sign_Up	An Object of the Sign_Up Class

### Class User

Variable/Object Name	Data Type	Description
fname	String	Stores User's First Name
lname	String	Stores User's Last Name
username	String	Stores Username
password	String	Stores Password
gender	String	Stores User's Gender
address	String	Stores User's Address
dob	int	Stores User's Day of Birth
mob	int	Stores User's Month of Birth
yob	int	Stores User's Year of Birth
user[]	static User	An array of Users
count	static int	Stores the number of Users
f	String	Constructor Variable which is used to initialize the User's First Name in the Object
l	String	Constructor Variable which is used to initialize the User's Last Name in the Object
un	String	Constructor Variable which is used to initialize the Username in the Object
pwd	String	Constructor Variable which is used to initialize the User's Password in the Object
gdr	String	Constructor Variable which is used to initialize the User's Gender in the Object
d	int	Constructor Variable which is used to initialize the User's Day of Birth in the Object
m	int	Constructor Variable which is used to initialize the User's Month of Birth in the Object
y	int	Constructor Variable which is used to initialize the User's Year of Birth in the Object

### Class Sign\_Up

Variable/Object Name	Data Type	Description
fname	private String	Stores User's First Name
lname	private String	Stores User's Last Name
username	private String	Stores Username
password	private String	Stores Password
gender	private String	Stores User's Gender
dob	private int	Stores User's Day of Birth
mob	private int	Stores User's Month of Birth
yob	private int	Stores User's Year of Birth
tempgdr	private char	Stores User's Gender initial (M/F)
bool	private boolean	Controls the loop which checks if the input format is correct
bool2	private boolean	Controls the loop which checks if the input format is correct
sc	Scanner	Scans and reads the input

i	int	Counter variable for the for loops
index	Index	An Object of the Index Class
Class Sign_In		
Variable/Object Name	Data Type	Description
pwd	private String	Checks User's Password
username	private String	Checks Username
uid	private int	Stores User ID
ch	private int	Stores User's Choice
i	private int	Counter variable for the for loops
sc	Scanner	Scans and reads the input
index	Index	An Object of the Index Class
homepage	Homepage	An Object of the Homepage Class
Class Homepage		
Variable/Object Name	Data Type	Description
uid	static int	Stores User's ID
ch	private int	Stores User's choice
id	int	Stores User ID
sc	Scanner	Scans and reads the input
buyBook	Buy_Book	An Object of the Buy_Book Class
bookSearch	Book_Search	An Object of the Book_Search Class
book	Book	An Object of the Book Class
viewEditProfile	View_Edit_Profile	An Object of the View_Edit_Profile Class
index	Index	An Object of the Index Class
Class Book		
Variable/Object Name	Data Type	Description
title	String	Stores Book's title
author	String	Stores Book's author
publisher	String	Stores Book's publisher
language	String	Stores Book's language
pub_date	String	Stores Book's publication date
isbn	String	Stores Book's ISBN
quantity	int	Stores Book's quantity
srno	int	Stores Book's serial number
mrp	double	Stores Book's MRP
used	boolean	Stores Book's condition (New/Used)
book[]	static Book	An array of Objects of the Book Class
init	String	Saves whether all books have been initialized
ttitle	String	Stores Book's title
tauthor	String	Stores Book's author
tpublisher	String	Stores Book's publisher
tlanguage	String	Stores Book's language
tisbn	String	Stores Book's ISBN
tmrp	double	Stores Book's MRP
tquantity	int	Stores Book's quantity
tpub_date	String	Stores Book's publication date
tused	boolean	Stores Book's condition (New/Used)
sc	Scanner	Scans and reads the input

booksPP	int	Stores the value of Books per page
error	boolean	Stores whether there is an error
lb	int	Stores the lower bound of books
ub	int	Stores the upper bound of books
pages	int	Stores number of pages
pgNo	int	Stores page number
ttitle	String	Stores spaces in the Title table
tauthor	String	Stores spaces in the Author table
tpublisher	String	Stores spaces in the Publisher table
tlanguage	String	Stores spaces in the Language table
tmrp	String	Stores spaces in the MRP table
tquantity	String	Stores spaces in the Quantity table
i	int	Counter variable for the for loops
ch	int	Stores User's choice
bookSearch	Book_Search	An Object of the Book_Search Class
homepage	Homepage	An Object of the Homepage Class
Class View_Edit_Profile		
Variable/Object Name	Data Type	Description
uid	private static int	Stores User's ID
incorrect	boolean	Stores whether there is an error
sc	Scanner	Scans and reads the input
ch	int	Stores User's choice
bool	boolean	Controls the loop which checks if the input format is correct
i	int	Counter variable for the for loops
viewEditProfile	View_Edit_Profile	An Object of the View_Edit_Profile Class
viewEditProfile2	View_Edit_Profile	An Object of the View_Edit_Profile Class
homepage	Homepage	An Object of the Homepage Class
Class Book_Search		
Variable/Object Name	Data Type	Description
search	String	Stores Input Search String
scInt	Scanner	Scans and reads the input for Integers
scStr	Scanner	Scans and reads the input for Strings
done	boolean	Controls the loop which checks if the input format is correct
ch	int	Stores User's Choice
j	int	Counter variable for the for loops
i	int	Counter variable for the for loops
homepage	Homepage	An Object of the Homepage Class
Class Buy_Book		
Variable/Object Name	Data Type	Description
bookId	private int	Stores the Book's ID
uid	private int	Stores the User's ID
cc	private String	Stores the Credit Card Number
cvv	private String	Stores the CVV
sc	Scanner	Scans and reads the input
serial	int	Stores the Book's Serial Number
i	int	Counter variable for the for loops
homepage	Homepage	An Object of the Homepage Class

price	int	Stores total Checkout price
scLine	Scanner	Scans and reads the input for Strings
tid	int	Stores Transaction ID
ch	int	Stores User's Choice
buyBook	Buy_Book	An Object of the Buy_Book Class