```java
package sistemperpustakaan;

import java.util.Scanner;
import sistemperpustakaan.service.ProsesService;

public class SistemPerpustakaan {


    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        ProsesService prosesService = new
ProsesService();
        prosesService.initDataBuku();
        do {
            System.out.println("----- Sistem Informasi
Perpustakaan -----");

System.out.println("1.Register\n2.Login\n0.Exit");
            System.out.print("Masukkan Menu : ");
            int menu = scanner.nextInt();
            switch (menu) {
                case 1:
                    prosesService.register();
                    break;
                case 2:
                    login:
                    do {
                        System.out.println("--- Login ---
");

                        System.out.print("Username : ");
                        String username = scanner.next();
                        System.out.print("Password : ");
                        String password = scanner.next();
                        if (prosesService.login(username,
password)) {

                            do {

System.out.println("1.Pinjam Buku\n2.Lihat Detail
Pinjaman\n0.Exit");

System.out.print("Masukkan Menu : ");
                                int menuPinjam =
scanner.nextInt();

                                switch (menuPinjam) {
                                    case 1:
```
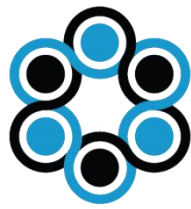
```
prosesService.daftarBuku();
                                 for (int i = 0; i
< DataPerpustakaan.UserArr.size(); i++) {

if(DataPerpustakaan.UserArr.get(i).getUsername().equals(u
sername)){

prosesService.pinjamBuku(DataPerpustakaan.UserArr.get(i))
;
                                     }
                                 }
                                 break;
                             case 2:

prosesService.daftarPinjam(username);
                                 break;
                         }
                     } while (true);
                 } else {
                     System.out.println("Username
& Password Salah !");
                 }
             } while (true);
         }
     } while (true);
    }

}
```

Keterangan Source Code :