

Gebze Technical University
Computer Engineering

CSE 222
2017 Spring

HOMEWORK 1 REPORT

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Course Assistant:

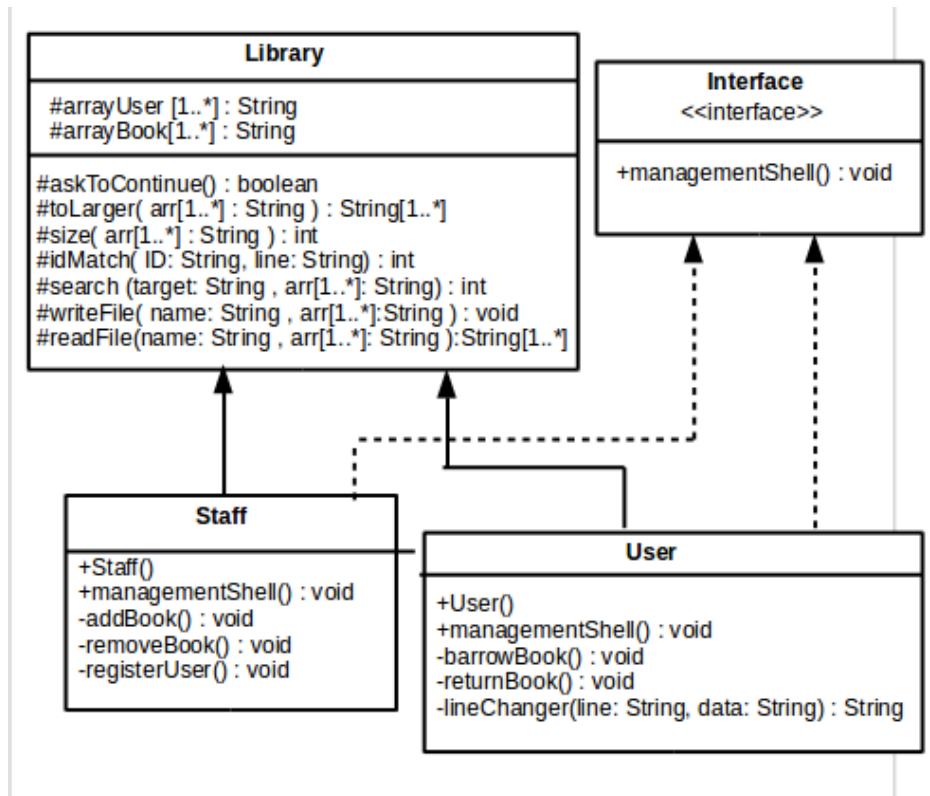
1. System Requirements

Ubuntu 15.10 64 bit system and java 1.8 version are used.

2. Use Case Diagrams

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3. Class Diagrams



4. Other Diagrams

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5. Problem Solutions Approach

If there is same name more than one, process continue with ID number (book ID, person ID).Except this situation, process continue with just name(book name, person name).Every function that we see on screen is between 2 functions (readFile and writeFile). Any function start with readFile and end with writeFile. readFile, if there is file that is opened previously, read datas from it to local array. writeFile, write datas from local array to file.

6. Test Cases

directories/.../.../ make then directories/.../.../ make run

7. Running and Results

```

furkan@furkan-EasyNote-LS44HR:~/Masaüstü/141044029$ make
javac Interface.java
javac Library.java
javac Staff.java
javac User.java
javac Main.java
furkan@furkan-EasyNote-LS44HR:~/Masaüstü/141044029$ make run
java Main
+++++
+++++ Welcome To Library Management System +++++
+++++

+++++      1. Staff      +++++
+++++      2. User      +++++
+++++      +++++
+++++      1
+++++      +++++
+++++      1. Add Book   +++++
+++++      2. Remove Book +++++
+++++      3. Register User +++++
+++++      1
Book Name      : cinali tatilde
Book is added!

Do you want to continue in same category? (Yes/No) : yes
+++++
+++++      1. Add Book   +++++
+++++      2. Remove Book +++++
+++++      3. Register User +++++
+++++      3
Enter Name     : furkan
Surname       : aktas
You have registered!
Your ID number : 1

Do you want to continue in same category? (Yes/No) : no

Do you want to make process? (Yes/No) : no

+++++
+++++ Good Bye +++++
+++++
furkan@furkan-EasyNote-LS44HR:~/Masaüstü/141044029$ 

```

books.csv (~Masaüstü/141044029)

Aç Kaydet

books.csv x

```

1 ID,BOOK,STATUS
2 1,cinali tatilde,None

```

users.csv (~Masaüstü/141044029)

Aç Kaydet

users.csv x

```

1 ID,USER,BOOK
2 1,furkanAKTAS,None

```

```

furkan@furkan-EasyNote-LS44HR:~/Masaüstü/141044029$ make run
java Main
+++++
+++++ Welcome To Library Management System +++++
+++++

+++++      1. Staff      +++++
+++++      2. User      +++++
+++++      +++++
+++++      2
+++++      +++++
+++++      1. Borrowing +++++
+++++      2. Returning  +++++
+++++      1
Enter name of person : furkan
Surname              : aktas
Enter book name      : cinali tatilde
You have barrowed book!

Do you want to continue in same category? (Yes/No) : 

```

books.csv (~Masaüstü/141044029)

Aç Kaydet

books.csv x

```

1 ID,BOOK,STATUS
2 1,cinali tatilde,1

```

users.csv (~Masaüstü/141044029)

Aç Kaydet

users.csv x

```

1 ID,USER,BOOK
2 1,furkanAKTAS,1

```

```
furkan@furkan-EasyNote-LS44HR:~/Masaüstü/141044029$ make run
java Main
+++++
+++++ Welcome To Library Management System +++++
+++++

+++++      1. Staff      +++++
+++++      2. User      +++++
+++++
+++++      2
+++++
+++++      1. Borrowing  +++++
+++++      2. Returning  +++++
+++++
+++++      1
Enter name of person : furkan
Surname               : aktas
Enter book name       : cinali tatilde
You have barrowed book!

Do you want to continue in same category? (Yes/No) : yes
+++++
+++++      1. Borrowing  +++++
+++++      2. Returning  +++++
+++++
+++++      2
Enter name of person : furkan
Surname               : aktas
Enter book name       : cinali tatilde
You have returned book!

Do you want to continue in same category? (Yes/No) : no

Do you want to make process? (Yes/No) : no

+++++
+++++ Good Bye +++++
+++++
furkan@furkan-EasyNote-LS44HR:~/Masaüstü/141044029$
```

books.csv (~/Masaüstü/141044029)

Aç

Kaydet

books.csv x

1 ID,BOOK,STATUS

2 1,cinali tatilde,None

users.csv (~/Masaüstü/141044029)

Aç

Kaydet

users.csv x

1 ID,USER,BOOK

2 1,furkanAKTAS,None

Question 2-)

Encapsulation is hiding datas that users don't have to know from users. While encapsulation is implemented with classes in C++ and Java, it can be implemented with Struct in C. Struct in C can help to hide datas from users. Struct is not same with class completely but it provides a structure that is similar to encapsulation.