

Gebze Technical University

Computer Engineering

CSE222-2020-SPRING

Homework-6_Part3 Report

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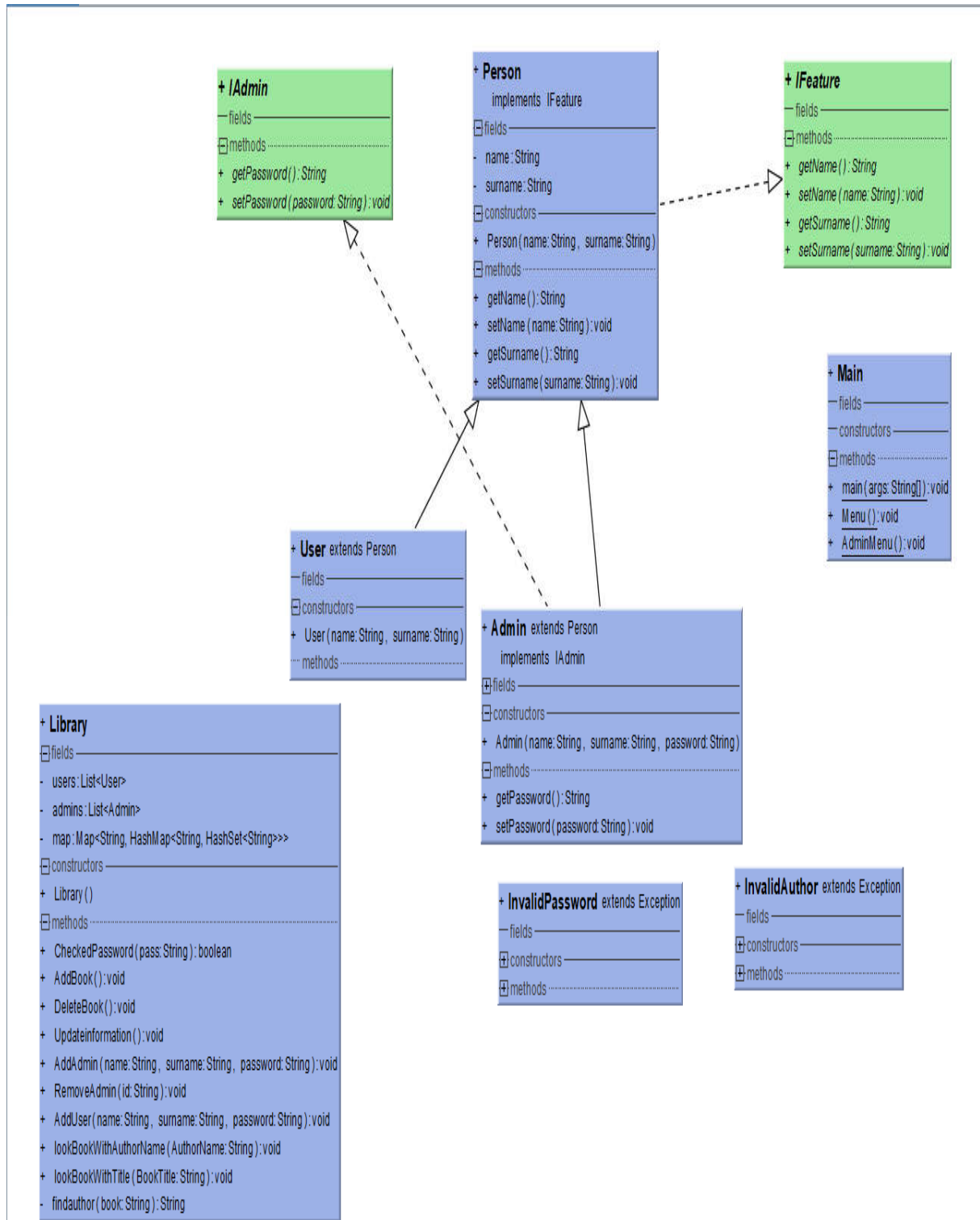
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1)Problem Solutions Approach

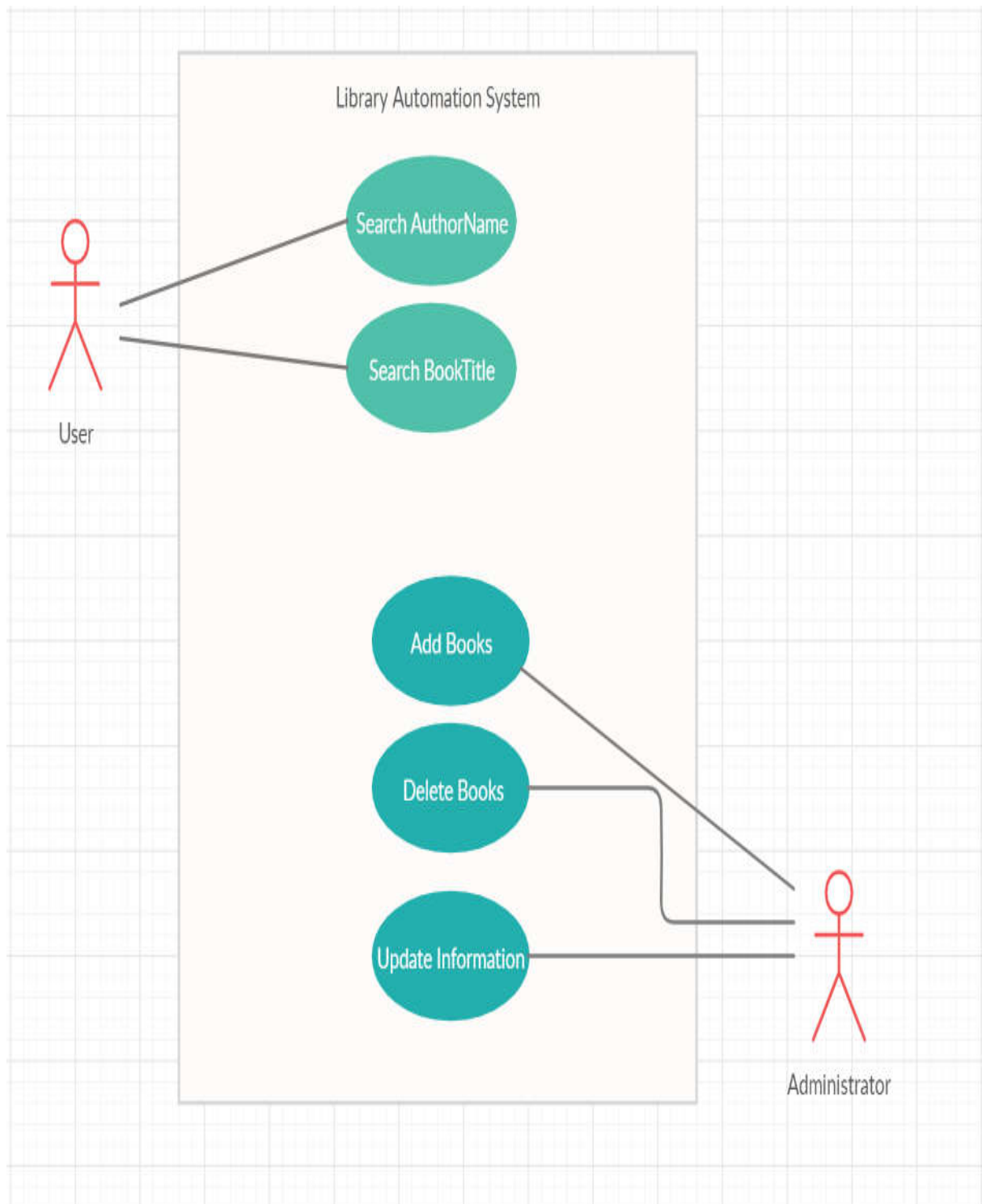
I stored necessary information with Map and Set in Library class. In this structure, I wanted to store the administrators and users and use them when necessary.

In the book adding section, if there is no book in the Map structure, I added directly, but if the book already exists, I saved the copy. I searched using the functions in Java in the search sections. In the operations performed by the manager, I did it again with the methods I mentioned above.

2) Class Diagram



3)Use Case Diagram



4)Test Case

a) Administrator added to the system

```
Administrator Record System
Enter the Name of Admin
Ferdî
Enter the Surname of Admin
Sönmez
Enter the Password of Admin
1610
*****
```

b) If the administrator password is entered incorrectly.

```
Enter Password
145
Invalid Password
*****
```

c) Administrator adds a Book

```
Name Of Writer
Necip
Name Of Book
Cile
Enter The Place of Book
Koridorun Solu 5.rafta
```

d) If the manager enters the book deletion section.

```
****AdminMenu****
1-Add Books
2-Delete Books
3-Update Information
4-Exit AdminMenu
2
Enter Name of Book
kaşığı
Enter Name of Author
Necip
****AdminMenu****
```

e) *If the author name is entered incorrectly during deletion*

```
***Update Location Of Book***
Enter Name Of Book
cile
Enter New Location Of BookTitle
Ogrenci Aldi
Invalid Author Name
```

f) *If the book location is updated in the system*

```
***Update Location Of Book***
Enter Name Of Book
Cile
Enter New Location Of BookTitle
Ogrenci Aldi
```

g) Finding the author's books in the library by the name of the author.

```
Book Search With AuthorName
Enter The Your Name
Ali
Enter The Your Surname
yilmaz
Enter the AuthorName
Necip
***Necip Books***
->Cile
Enter the Title of the Book you want to learn location:
I
```

h) To find out where the book is located in the library and who the author.

```
Book Search With BookTitle
Enter The Your Name
Adam
Enter The Your Surname
Fero
Enter the BookTitle
Cile
Writer:Necip--Location:Ogrenci Aldi
****Menu****
```