

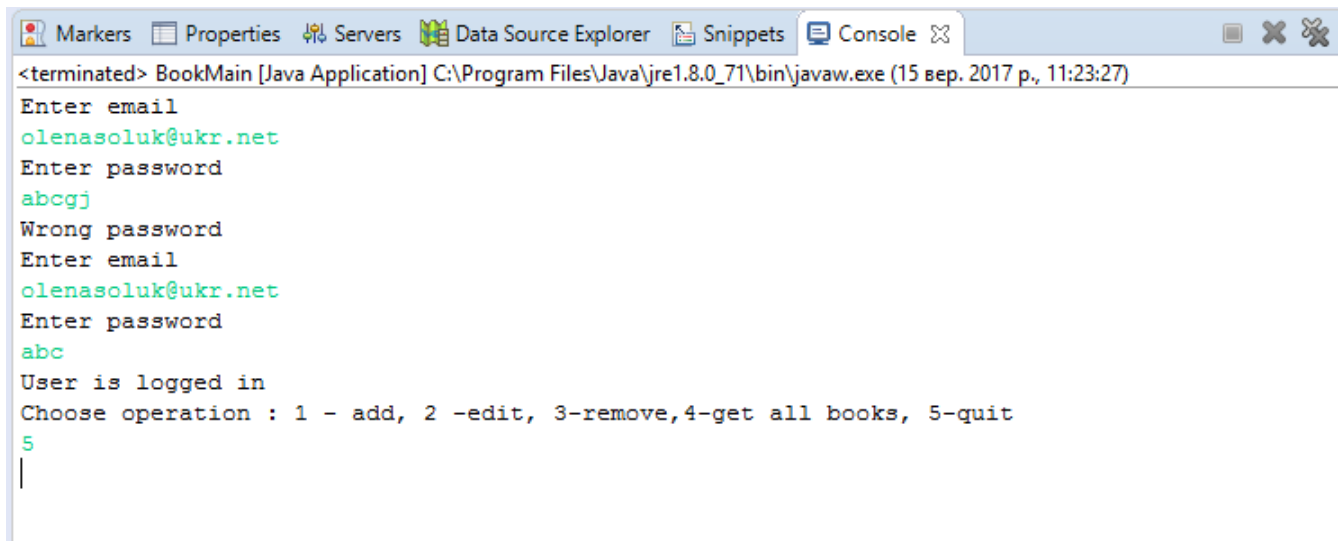
This program was built upon functionality implemented in version 1. Additional features:

- Registration and login logic was implemented using additional tables "user_role" and "user"
- Information about authors is put in new relation "author". Relationship between authors and books is "many-to-many" (because a book can have multiple authors and one author can publish more than one book), so additional table is created automatically.
- Relation "Journal" is implemented as class that inherits from book (it has additional field numberOfIssue). Inheritance strategy is joined.

During first launch, tables can be created by changing property "hbm2ddl.auto" (in file hibernate.cfg.xml). You may also need to change some other properties such as "hibernate.connection.username" and "hibernate.connection.password" in order to make program run on your system. Program will not work correctly while user_role and user tables are empty.

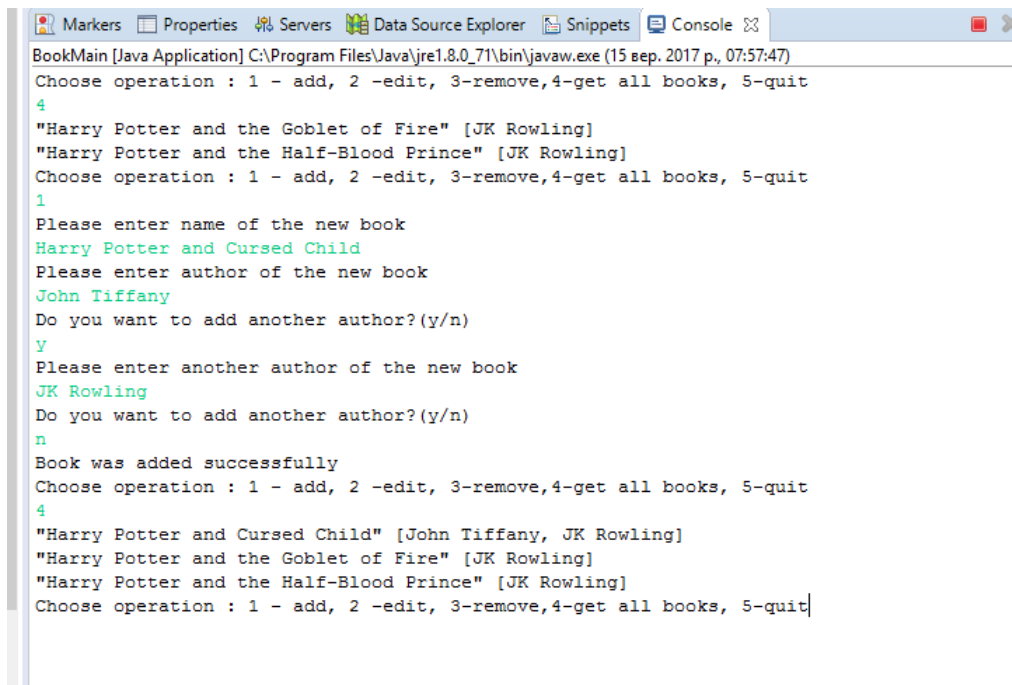
```
insert into user_role(roleName)
values('regular user');
insert into user(email,password,roleId)
values('olenasoluk@ukr.net','abc',1);
```

0.1 Screenshots of working program.



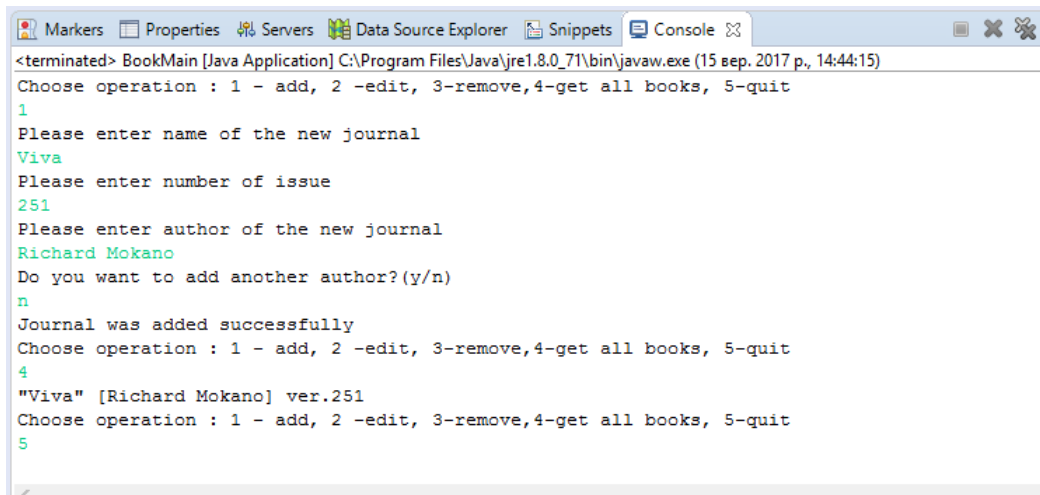
```
<terminated> BookMain [Java Application] C:\Program Files\Java\jre1.8.0_71\bin\javaw.exe (15 sep. 2017 p., 11:23:27)
Enter email
olenasoluk@ukr.net
Enter password
abcgj
Wrong password
Enter email
olenasoluk@ukr.net
Enter password
abc
User is logged in
Choose operation : 1 - add, 2 -edit, 3-remove,4-get all books, 5-quit
5
|
```

Рис. 1: 1)Logging.



```
BookMain [Java Application] C:\Program Files\Java\jre1.8.0_71\bin\javaw.exe (15 sep. 2017 p., 07:57:47)
Choose operation : 1 - add, 2 -edit, 3-remove,4-get all books, 5-quit
4
"Harry Potter and the Goblet of Fire" [JK Rowling]
"Harry Potter and the Half-Blood Prince" [JK Rowling]
Choose operation : 1 - add, 2 -edit, 3-remove,4-get all books, 5-quit
1
Please enter name of the new book
Harry Potter and Cursed Child
Please enter author of the new book
John Tiffany
Do you want to add another author?(y/n)
y
Please enter another author of the new book
JK Rowling
Do you want to add another author?(y/n)
n
Book was added successfully
Choose operation : 1 - add, 2 -edit, 3-remove,4-get all books, 5-quit
4
"Harry Potter and Cursed Child" [John Tiffany, JK Rowling]
"Harry Potter and the Goblet of Fire" [JK Rowling]
"Harry Potter and the Half-Blood Prince" [JK Rowling]
Choose operation : 1 - add, 2 -edit, 3-remove,4-get all books, 5-quit
```

Рис. 2: Adding a new book.



```
<terminated> BookMain [Java Application] C:\Program Files\Java\jre1.8.0_71\bin\javaw.exe (15 sep. 2017 p., 14:44:15)
Choose operation : 1 - add, 2 -edit, 3-remove,4-get all books, 5-quit
1
Please enter name of the new journal
Viva
Please enter number of issue
251
Please enter author of the new journal
Richard Mokano
Do you want to add another author?(y/n)
n
Journal was added successfully
Choose operation : 1 - add, 2 -edit, 3-remove,4-get all books, 5-quit
4
"Viva" [Richard Mokano] ver.251
Choose operation : 1 - add, 2 -edit, 3-remove,4-get all books, 5-quit
5
```

Рис. 3: Adding new journal.