

PROG32758 – Assignment 3

Due: April December 3, 2023, at 11:59pm

- This assignment is to be done **individually/in a group (maximum 2 students per group)** and is subject to school Policy and Guidelines on Academic Honesty.
- If you are working in a group submit your name and id along with other person name and id by Nov 15, 2023. (after this date it is going to be considered you want to work alone :: NO EXTENSION for the submission of names) **(Submissions for the group names can be done via Teams or Email (Teams is preferred))**

Welcome to the Library Database

Title	Author	Reviews
The 7 Habits of Highly Effective People	Stephen R. Covey	View
The Martian	Andy Weir	View

Login [here](#).

Index.html

Reviews for The Martian by Andy Weir

- A great science fiction book about an astronaut stranded on Mars

Want to leave a review? [Login here](#)

[Back to index](#)

Clicking on View

Enter your information to log in

User name:

Password:

Not registered? [Register here](#)

[Back to index](#)

Log in screen

Reviews for The Martian by Andy Weir

- A great science fiction book about an astronaut stranded on Mars

[Add a review](#)

[Back to index](#)

Any one can view the reviews but if you want to leave a review about the book you need to login. Once logged in, any authenticated user can add a review.

Add your review!

[Add Review!](#)

[Back to index](#)

Add a review screen

Register Here

User name:

Password:

[Register Now](#)

[Back to index](#)

Registration screen. You can only register normal users.

Create one administrator user manually.

Welcome to the Library Database

Title	Author	Reviews
The 7 Habits of Highly Effective People	Stephen R. Covey	View
The Martian	Andy Weir	View

[Add a Book](#)

[Logout](#)

Only if you are logged in as Administrator then “Add a Book” link is available.

Normal customers can't add a book and can't view this link.

Add a New Book

Title:

Author:

[Add Book!](#)

[Logout](#)

[Back to index](#)

Add a book screen (only for admin)

Welcome to the Library Database

Title	Author	Reviews
The 7 Habits of Highly Effective People	Stephen R. Covey	View
The Martian	Andy Weir	View
Prey	Michael Crichton	View

[Add a Book](#)

[Logout](#)

Screen after adding a book

Reviews for Prey by Michael Crichton

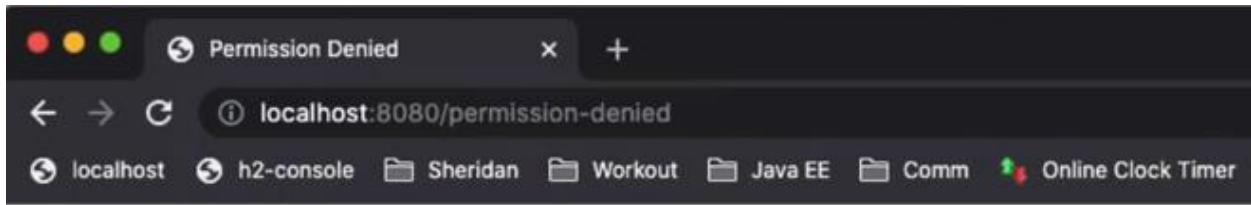
No reviews yet. Be the first to review it!

[Add a review](#)

[Logout](#)

[Back to index](#)

Screen of a book without any reviews



Permission denied

You do not have access to this area

[Logout](#)

[Back to index](#)

Permission denied if someone tries to access a page like review or add a book without proper authentication.

```
2023-11-12 05:22:29.641      INFO  15127      ----  [nio-8080-exec-1]
return value is: 1
bugs was trying to access /admin/addBook
```

Permission denied console message

You are welcome to modify it to fit something you prefer, but don't remove any functionality. Some of the snapshots of model classes and schema, you need to add user and their roles by yourself and any other model class or table needed to complete your assignment:

- User information needs to get stored along with password (password should be properly encrypted).
- User Role needs to get stored properly.
Consider only two roles
 - Admin
 - Client

```
7 @Data
8 public class Book {
9
10    private Long id;
11    private String title;
12    private String author;
13
14    private List<Review> reviews;
15 }

▲ 5 @Data
6 public class Review {
7
8    private Long id;
9    private Long bookId;
10   private String text;
11
12 }
```

```

1 create table books (
2     id      LONG NOT NULL Primary Key AUTO_INCREMENT,
3     title   VARCHAR(128) NOT NULL,
4     author  VARCHAR(128) NOT NULL
5 );
6
7 create table reviews (
8     id      LONG NOT NULL Primary Key AUTO_INCREMENT,
9     bookId  LONG NOT NULL,
10    text    VARCHAR(1024) NOT NULL UNIQUE
11 );
12
13
14 alter table reviews
15     add constraint book_review_fk foreign key (bookId)
16     references books (id);
17
18 insert into books (title, author)
19 values ('The 7 Habits of Highly Effective People', 'Stephen R. Covey');
20
21 insert into books (title, author)
22 values ('The Martian', 'Andy Weir');
23
24 insert into reviews (text, bookId)
25 values ('An older book, but still a very good read for principle-centered leadership.', 1)
26
27 insert into reviews (text, bookId)
28 values ('A great science fiction book about an astronaut stranded on Mars', 2);

```

```

1ofunction verify() {
2
3     var password = document.forms['form']['password'].value;
4     var userName = document.forms['form']['userName'].value;
5     if (password == null || password == "" ||
6         userName == null || userName == "") {
7
8         document.getElementById("error").innerHTML
9             = "User name and password are required";
10        return false;
11    }
12
13    var checkboxes = document.getElementsByName("authorities");
14    var okay = false;
15o    for(var i = 0; i < checkboxes.length; i++) {
16o        if(checkboxes[i].checked) {
17            okay = true;
18            break;
19        }
20        document.getElementById("error").innerHTML
21            = "You must select at least one role";
22    }
23    return okay;
24 }

```

- Make sure you use H2 Database to store all information, all passwords should be properly salted.
- Add one administrator in the database manually using schema.sql or data.sql file.
- Add two clients in the database manually using schema.sql or data.sql.

Submission Criterion

- Submit your zipped eclipse project.
- Submit a text file with **usernames**, **roles** and **passwords** that are added manually.
- If you are working in a group, then only one person needs to submit the requirements.

Enjoy and Good Luck 😊