MPP Final Project – Group02

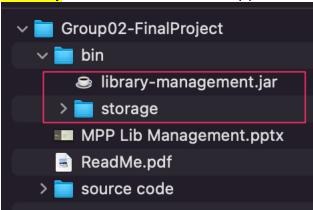
I. Background

The library management application is a desktop application for users (Librarian, Admin or Both) to deal with below use cases

- 1. Login
- 2. Add a new library member to the system
- 3. Checkout a book (if available) for a library member
- 4. Add a copy of an existing book to the library collection
- 5. Add a book to the library collection
- 6. Given a library member id, print (to console) the checkout record of that library member
- 7. Determine whether a given copy of a publication is overdue, and which library member has it in his/her possession

II. Run the application

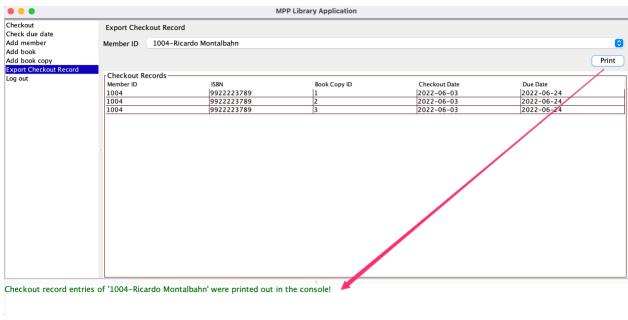
Run by double-clicking on library-management.jar, it requires storage directory is located at same directory parent of library-management.jar



2. Customize storage home directory path by passing **STORAGE_HOME** system property in the command line e.g.

\$ java -DSTORAGE_HOME=/Users/phatnguyen/Desktop -jar library-management.jar

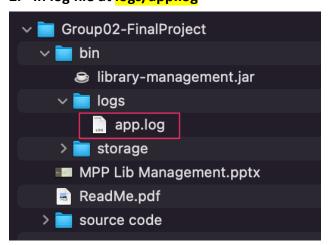
III. Monitor log in console or log file

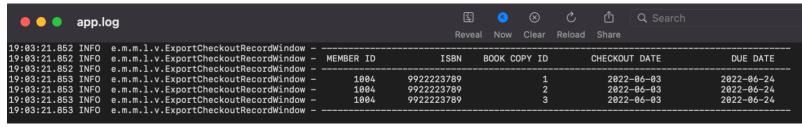


1. In the console

19:03:21.852	[AWT-EventOueue-01 INFO	e.m.m.l.v.ExportCheckoutRecordWindow -					
		e.m.m.l.v.ExportCheckoutRecordWindow -			BOOK COPY ID	CHECKOUT DATE	DUE DATE
		e.m.m.l.v.ExportCheckoutRecordWindow -					
19:03:21.853	[AWT-EventQueue-0] INFO	e.m.m.l.v.ExportCheckoutRecordWindow -	1004	9922223789		2022-06-03	2022-06-24
19:03:21.853	[AWT-EventQueue-0] INFO	e.m.m.l.v.ExportCheckoutRecordWindow -	1004	9922223789	2	2022-06-03	2022-06-24
19:03:21.853	[AWT-EventQueue-0] INFO	e.m.m.l.v.ExportCheckoutRecordWindow -	1004	9922223789		2022-06-03	2022-06-24
19:03:21.853	[AWT-EventQueue-0] INFO	e.m.m.l.v.ExportCheckoutRecordWindow -					

2. In log file at logs/app.log





IV. Sample data

Users

User {username='101', password=xyz, role=LIBRARIAN} User {username='102', password=abc, role=ADMIN} User {username='103', password=111, role=BOTH}

Books

[2311451123, The Big Fish, Joe Thomas; Sandra Thomas, 21, 3] [9922223789, Thinking Java, Andrew Cleveland, 21, 5] [2812331456, Antartica, Nirmal Pugh, 7, 2] [2311451125, Beginning MPP, Joe Thomas; Sandra Thomas, 21, 1] [4856882567, Jimmy's First Day of School, Sarah Connor, 7, 2]

V. Development section

- 1. Use IntelliJ IDE to design GUI and code
- 2. Maven version is 3.6 or above
- 3. Oracle Java version is 17 or above
- 4. Source code is sent along with as attachment or could be cloneable at https://github.com/phatn/library-management.git

