DEPI-JAVA Final Project

Library Management System

Team:

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Main scenario:

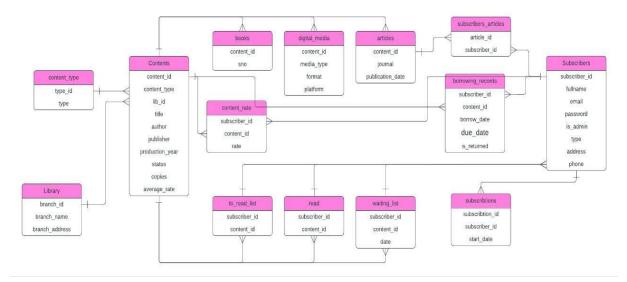
Library Management System

Develop an application to manage Library borrowing and returns activities. Consider the following information gathered during the analysis process

Design:

- Basic Classes: Library, Contents, Books, Articles, Digital Media,
 Subscribers, Borrowing Records, and have the following relationships:
- A library content can be a book, an article in a journal, or digital media.
- A subscriber can borrow any of the library contents, for three weeks, golden subscribers can borrow for three months, after the lease time is over, a fee accrue on the subscriber until the borrowed item is returned.
- A Librarian/administrator can print a report about all borrowed books and rank them according to audience interest rates, can save/load data on and from files.

• Database:



Your extra suggestions are welcome, especially to organize main function, display a menu to the user to:

- Adding/editing/deleting instances belonging to each class,
- Subscriber browsing library contents and select items to borrow.
- Subscriber returning borrowed item and check his balance and pay any late fee if any.
- Admin can print reports of overdue borrowed items.

library.txt

Library ID	Name
1	Main Campus Library
2	CS Library
3	Engineering Library
3	Engineering Library

items.txt

Item	ID Library ID	Category	Title	Author	Publisher	Production Year	Status	Copies
1	1	book	Introdu ction to Java	Daniel Liang	Pearson	2010	On shelf	10
2								

subscribers.txt

Subscriber ID	Туре	Name	Address	Phone	Email
1	regular	Mohamed			
2	golden	Ahmed			
3	regular	Mostafa			

Borrowing.txt

subscriber ID	Borrow Date	content ID	Return Date	Fee
1	10/1/2013	1		0
1	10/1/2013	1		50
2	12/2/2013	3		
2	13/2/2013	3		

Extra Features:

- Library view made as interface, and UserMainPage and AdminMainPage are made from it.
- All contents can be borrowed using the same function "borrow" (Polymorphism)
- Search for Contents using filters
- Add Contents to wish list "to_read_list"
- Add Contents to read list "the already read books"
- Add content to waiting list to get notified if available.
- Get notified before the end of the borrowing period by email.

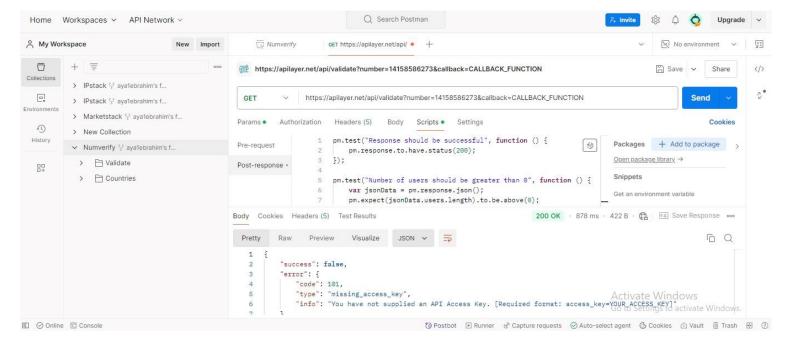
Source code:

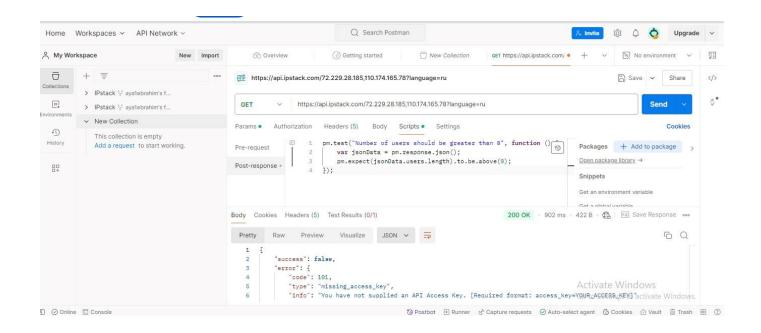
Tasneem205/Library_Management_System: Library Management System as a DEPI project (github.com)

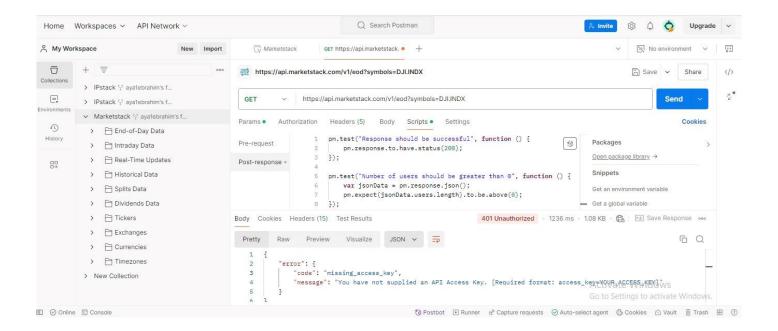
note: not all the team used GitHub, so some edits are made by someone and committed by Tasneem205.

API usage:

We tried 3 deferent APIs and tested them using postman







Management tool (JIRA):

We used JIRA to manage the project using agile concepts, here is an example:

