

Sunbeam Institute of Information Technology, Pune and Karad

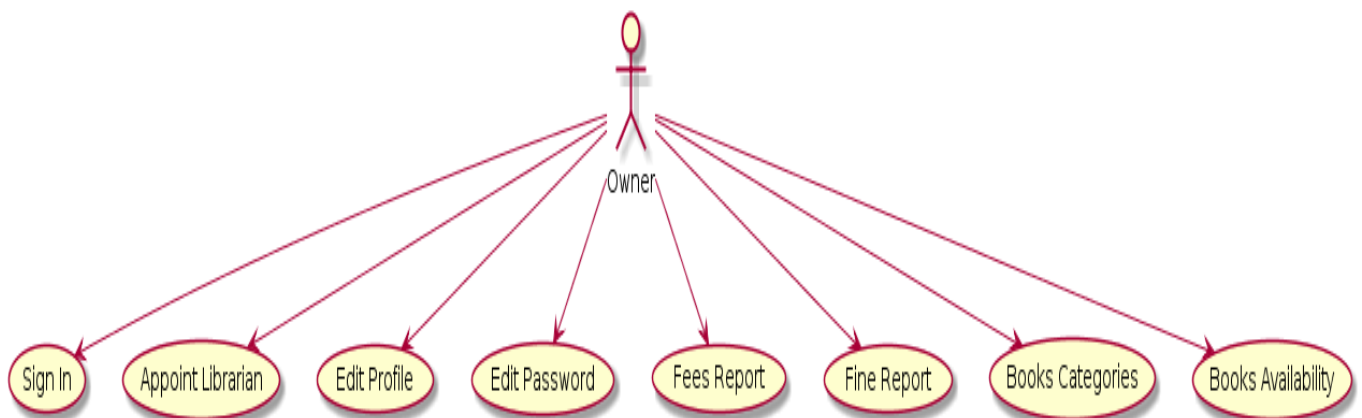
C Programming – Hackathon Library Management



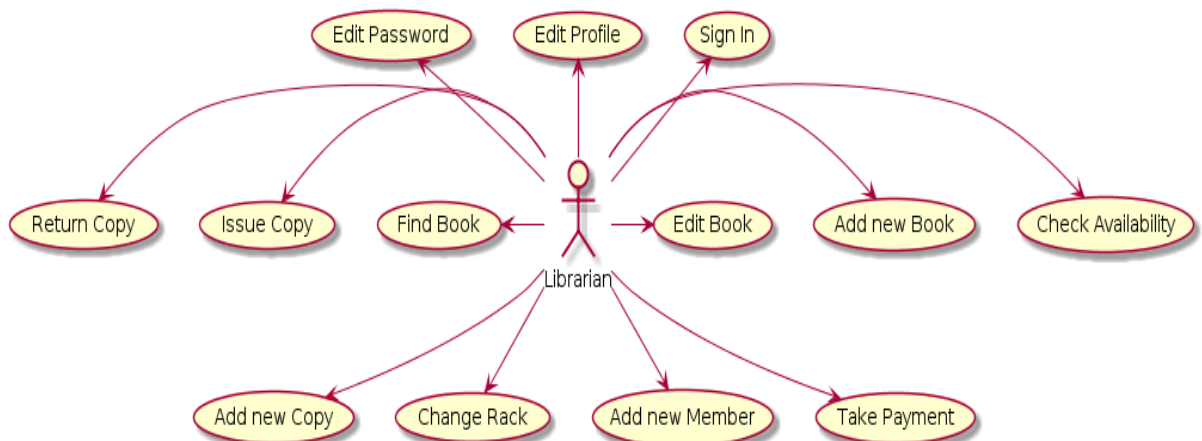
Course: DESD

Batch: March 2022

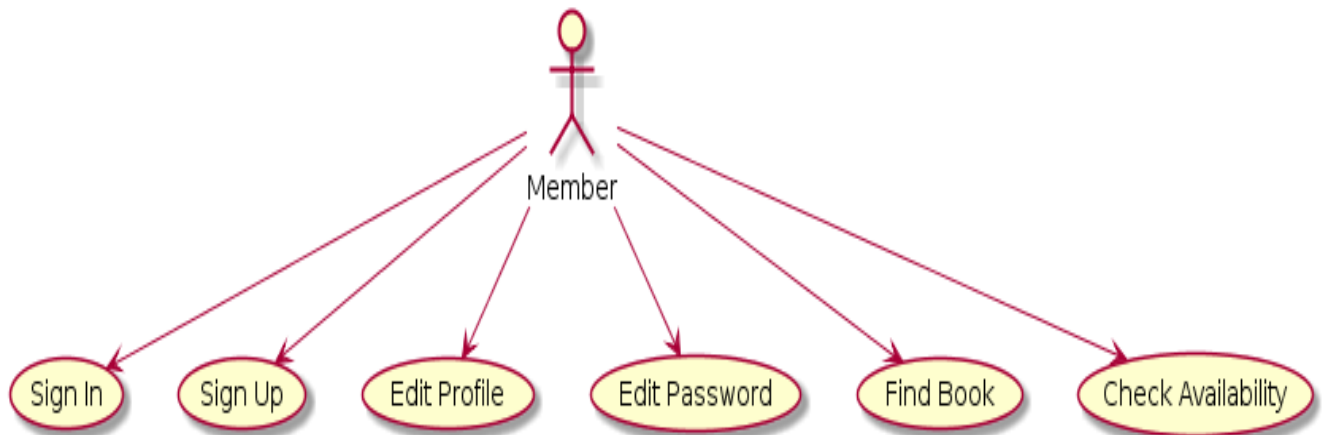
- Implement library management system for a commercial library. This software can be used by three types of users.
 - Owner
 - Librarian
 - User
- Owner
 - Owner owns library.
 - He is interested into tracking assets and revenue.



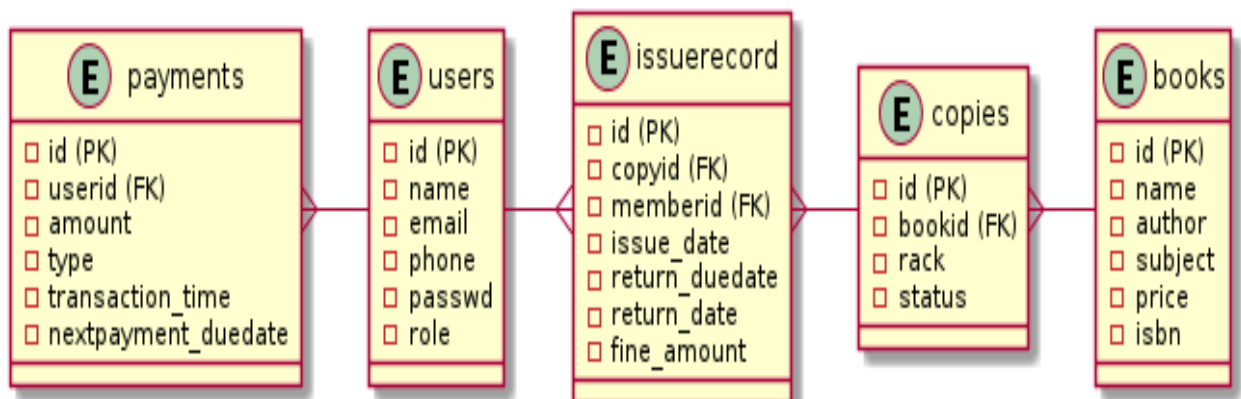
- Librarian
 - Owner appoints a librarian for library management.
 - He handles all tasks including data entry, book issue, Payment Collection etc.



- Member
 - o Members (reader) can find books and check availability.



- Important points to note.
 - o This is console based menu-driven application. Based on user login appropriate menu will be visible.
 - o Each book can have multiple copies and organized into multiple racks.
 - o Issue/return of individual copy is expected. For example, if “C Programming Language (by Ritchie)” have 10 copies, each copy can be issued and returned independently.
 - o Book can be issued if and only if user is paid user. Otherwise error message will be displayed. Payment of each user will be collected by Librarian on monthly basis.
 - o Book is expected to return in 7 days. If delayed, fine of Rs. 5/-is applicable and should be taken by Librarian while returning book.
- Technologies & tools
 - o Programming language: C
 - o Database: File-IO
 - o IDE: VS code or any other IDE
- Database design (ER Diagram)
 - o This is for your reference only (you are not expected to use database).



- UI design
 - Please refer attached screen shots (read file name for the reference).
 - Note that it is reference screen shot for functionality and output is expected to well-formatted.

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