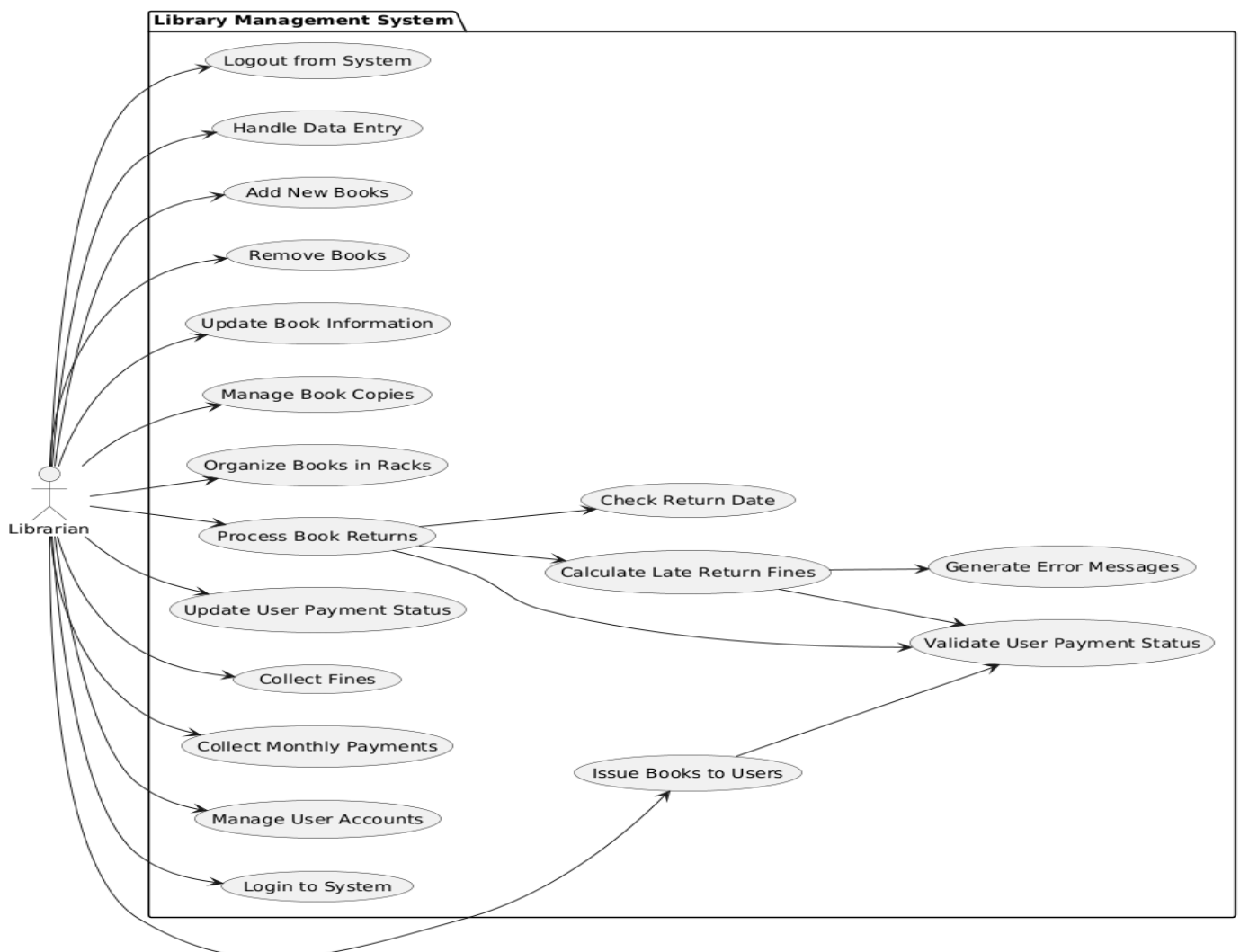# Hackathon using AI
Feb-2025 Batch   5-Aug-2025

Library Management

- Implement library management system for a commercial library. This software can be used by only one User.

    o   Librarian

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

    Please refer following Use –Case Diagram

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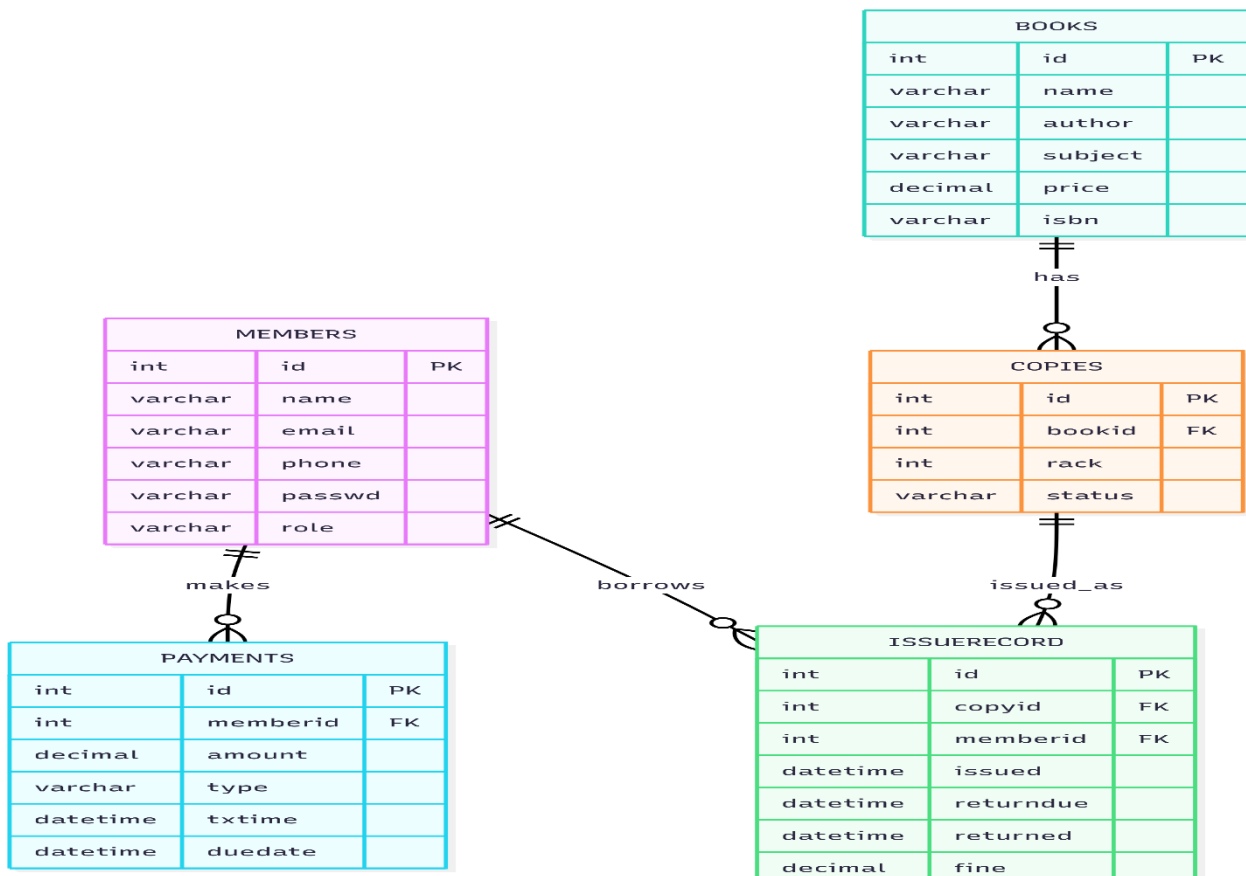
Important points to note.
- o   This is Web based application
- o   Each book can have multiple copies and organized into multiple racks.
- o   Issue/return of individual copy is expected. For example, if "C Programming Language (by Ritchie)" have 10 copies, each copy can be issued and returned independently.
- 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: MERN / Spring boot for Backend
  - o   Database: MySQL
  - o   IDE: STS/VSCode

- Database design (ER Diagram)
  - o   This is for your reference only.

- 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.