For my final project, I will develop a library management program. The main purpose of the program will be to catalog books by author, title, ISBN, genre and due date, and track the customers who rent them by name, address, age, payment, and contact information.

The “library” will be stored in a database housing books and customers in separate tables. Objects used by the program will be books and customers.

Payment information will be credit cards, verified by API. Cards will be automatically charged $0.15 for each day a book is overdue, then charged the full book value after 14 days.

The GUI’s options for books will be to add new books, delete or modify existing, and check out/check in existing books. Customer options will include add, delete, and modify. The GUI will also include general options for closing the program or canceling edits. It will include a search feature that searches customers or books by any field in their respective tables.