Class Diagram for Library Management System

View (users.index)

UserController
+ index()
+ store()
+ update()
+ delete()

User
+ user_id: int
+ name: string
+ email: string
+ password: string
+ role: enum{0,1}
+ status_delete: enum{0,1}

+ rental()

Rental
+ rental_id: int
+ user_id: int
+ borrowed_at: datetime
+ due_date: datetime
+ returned_at: datetime
+ rental_status: enum{0,1}
+ status_delete: enum{0,1}

+ user():
+ rentalDetails()

RentalDetail
+ id: int
+ rental_id: int
+ book_id: int

+ rental()
+ book()

Books
+ book_id: int
+ title: string
+ author: string
+ publisher: string
+ isbn: string
+ publication_year: year
+ stock: int
+ status_delete: enum{0,1}

+ rentalDetails()

CatalogController
+ index(Request $request)
+ store(Request $request)
+ update(Request $request)
+ delete($id)

View (catalog.index)

CollectionController
+ index(Request $request)

View (home)

RentalController
+ index()
+ store()
+ return()
+ destroy()
+ showBorrowedBooks()

View (rental.index)

LoginController
+ showLoginForm()
+ showStaffLoginForm()
+ login()
+ staffLogin()
+ logout()

View (auth.staff)

View (auth.member)