Return books

Sequence Diagram for Book Return Management

User → WebInterface: requestReturn(bookId)

WebInterface → ReturnController: returnBook(userId, bookId)

ReturnController → BookDatabase: getLoanRecord(userId, bookId)

BookDatabase --> ReturnController: loanRecord

ReturnController → BookDatabase: closeLoanRecord(loanId)

ReturnController → FinanceService: calculateLateFee(loanRecord)

FinanceService --> ReturnController: lateFeeAmount

ReturnController → WebInterface: returnResult(lateFeeAmount)

WebInterface → User: displayReturnStatus(lateFeeAmount)