Model

Person (abstract)

Attributes – Name, DateJoined, Privileges, IsStaff, Address, Email, Username, Password, loanLimit

Library (abstract)

Attributes
BranchName
BranchCode

Customer

Attributes - libraryCardId

Employee

Attributes - jobTitle, employeeID
Traits - libraryCardId?

Book

attributes - bookID, bookISBN, title, authors, genre, ageRange, isAvailable

Loan

attributes - loanID, loanOutDate, loanReturnDate, loanOverdue

View

LoanViewer

Methods – listLoans

UserViewer

Methods – listAccountDetails, listPrivileges, listFines

BookViewer

Methods – listBooks, listCopies

Control

LoanController

Attributes - loans

Methods – addLoan, loanBook, returnBook, getLoanReturnDate, flagBookOverdue

UserController

Attributes - customers, staffMembers

Methods - addUser, editUser, setPrivileges, fineUser

BookController

Attributes - books

Methods - addBook, deleteBook, editBook, searchBook, countCopies