Robustness Diagram: Return Book

Group: G25

Legend:

Boundary   Entity (Data)

Control (Logic)   Actor

Member

Librarian

Flow →

Return Counter Screen

Book Scan Interface

Return Confirmation

Return Controller

Due Date Validator

Fine Calculator

Book

Member

Loan Record

Fine Record

Interaction Flow:

- Member/Librarian initiates book return
- System scans book and retrieves loan info
- System validates return date vs due date
- If overdue: System calculates fine (extends to Pay Fine)
- System verifies book condition
- System updates book status to Available

Library Management System - Object-Oriented Design by Prof. Walt Melo