需求文档

开发目标

**根据客户的要求，开发一个智能化的图书管理系统。**

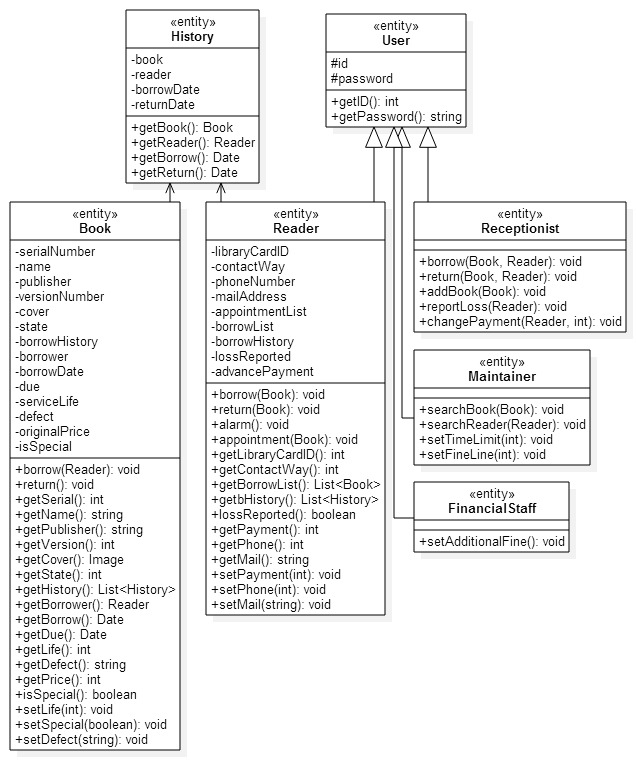
**为读者提供办证，借书，还书，查询，挂失，预约等功能。**

**为前台人员提供便捷的新书录入、借书还书操作的平台。**

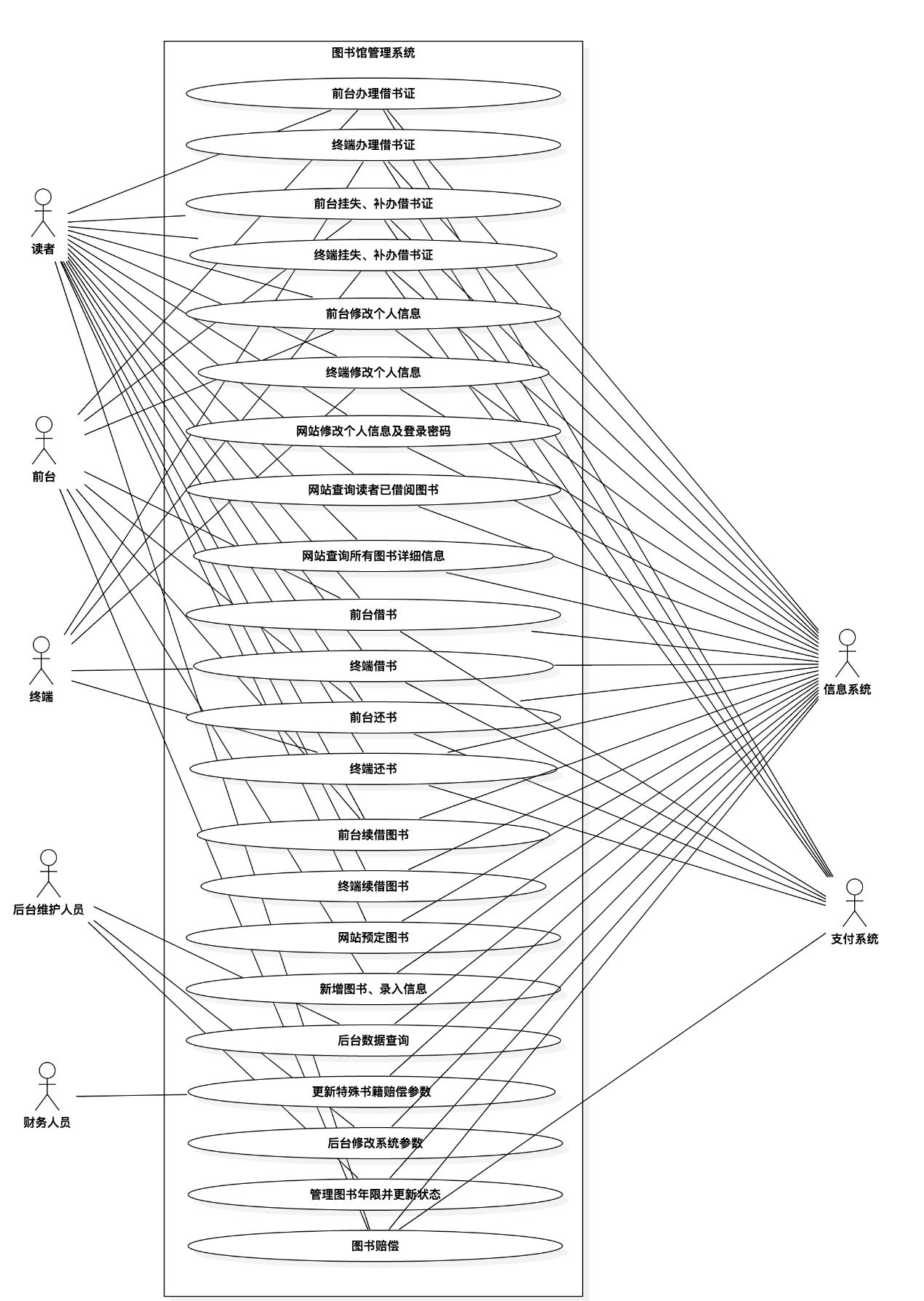
**为后台维护人员提供查看各类数据、修改系统参数的入口。**

**智能化计算并管理书籍赔偿金、逾期违约金等，分担财务人员的工作。**

数据模型

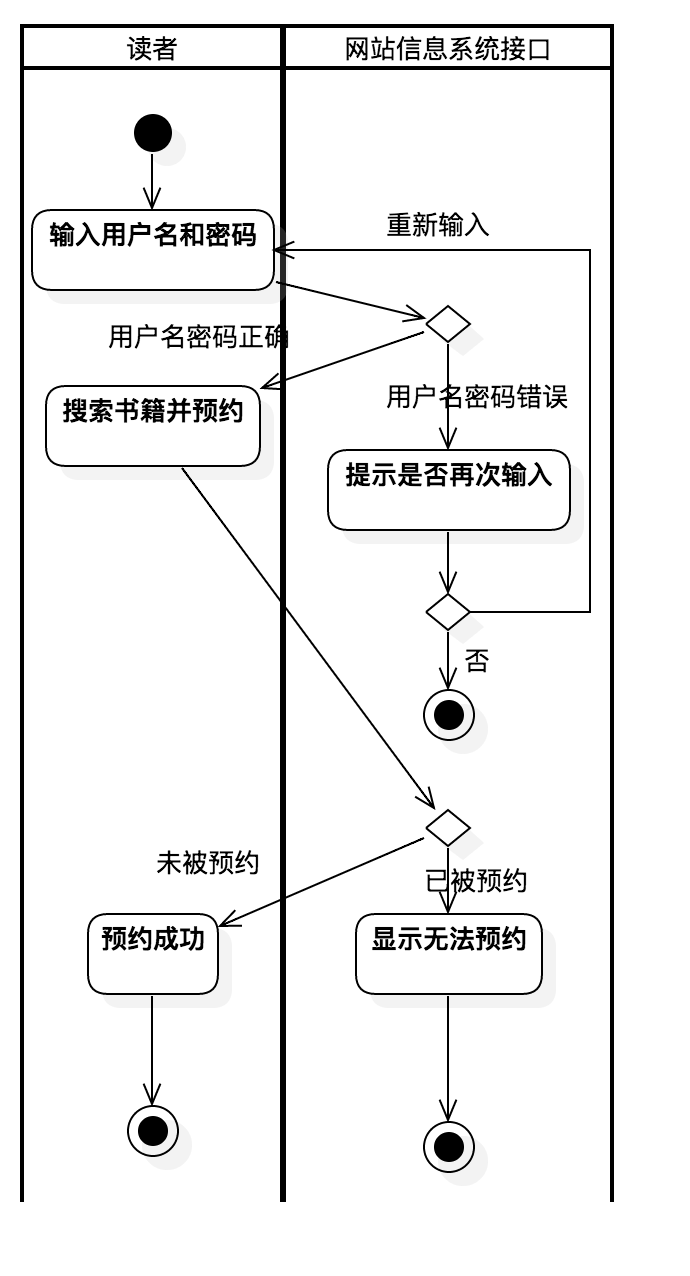


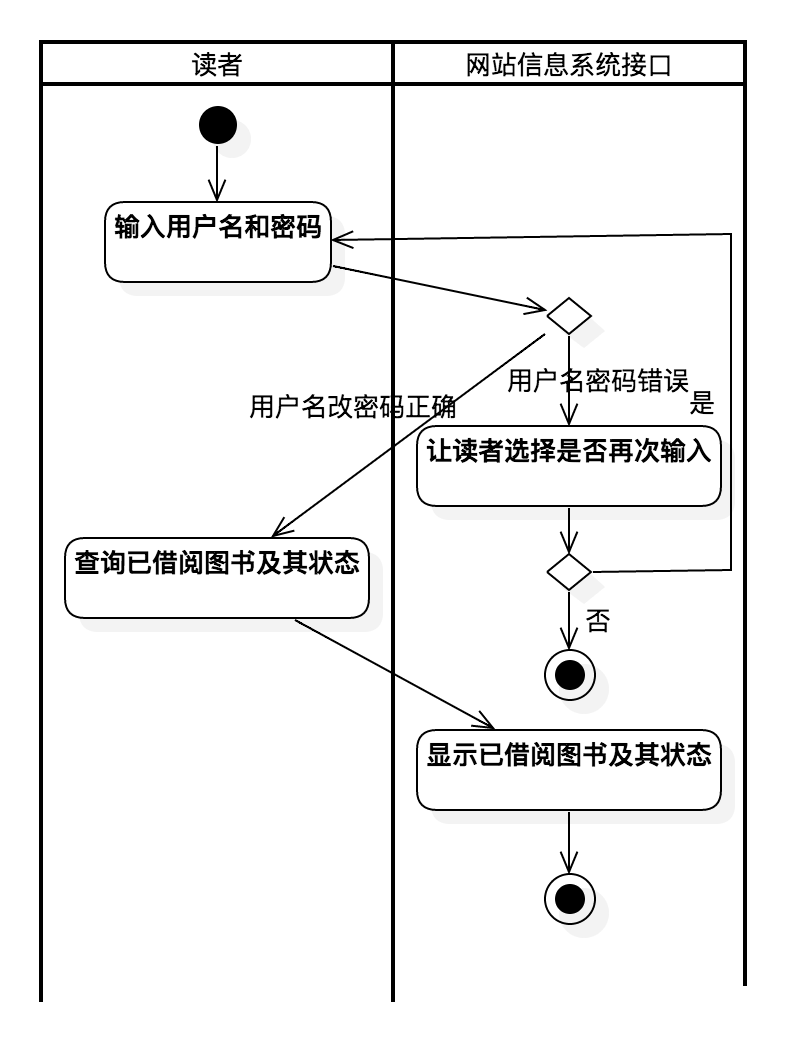
用况模型

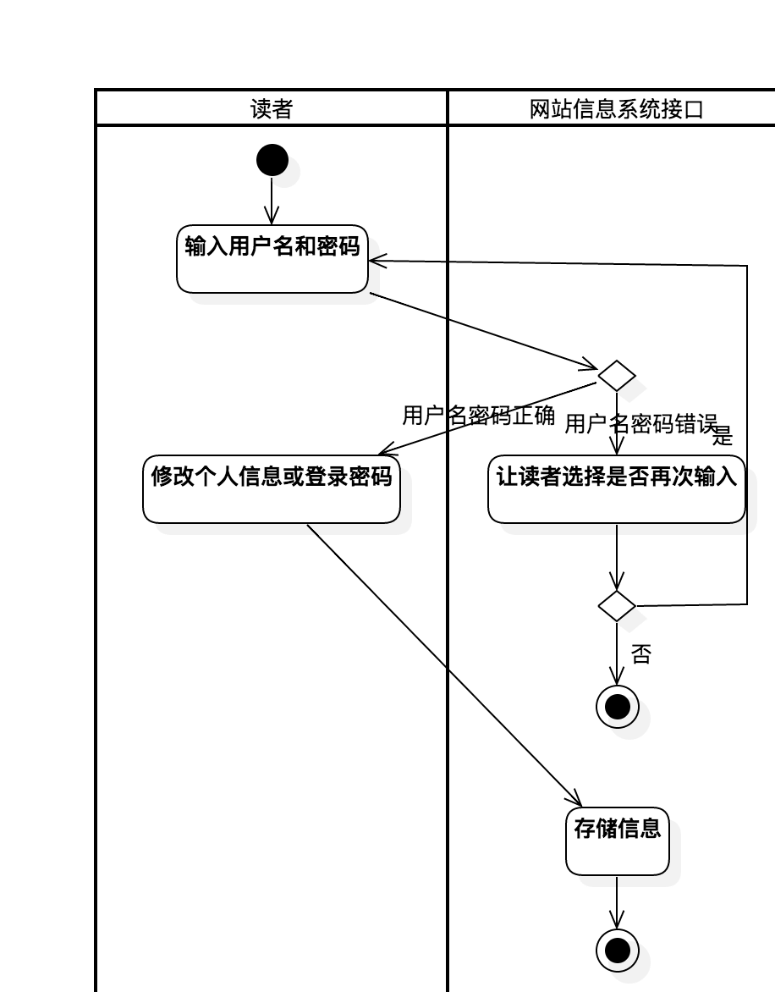
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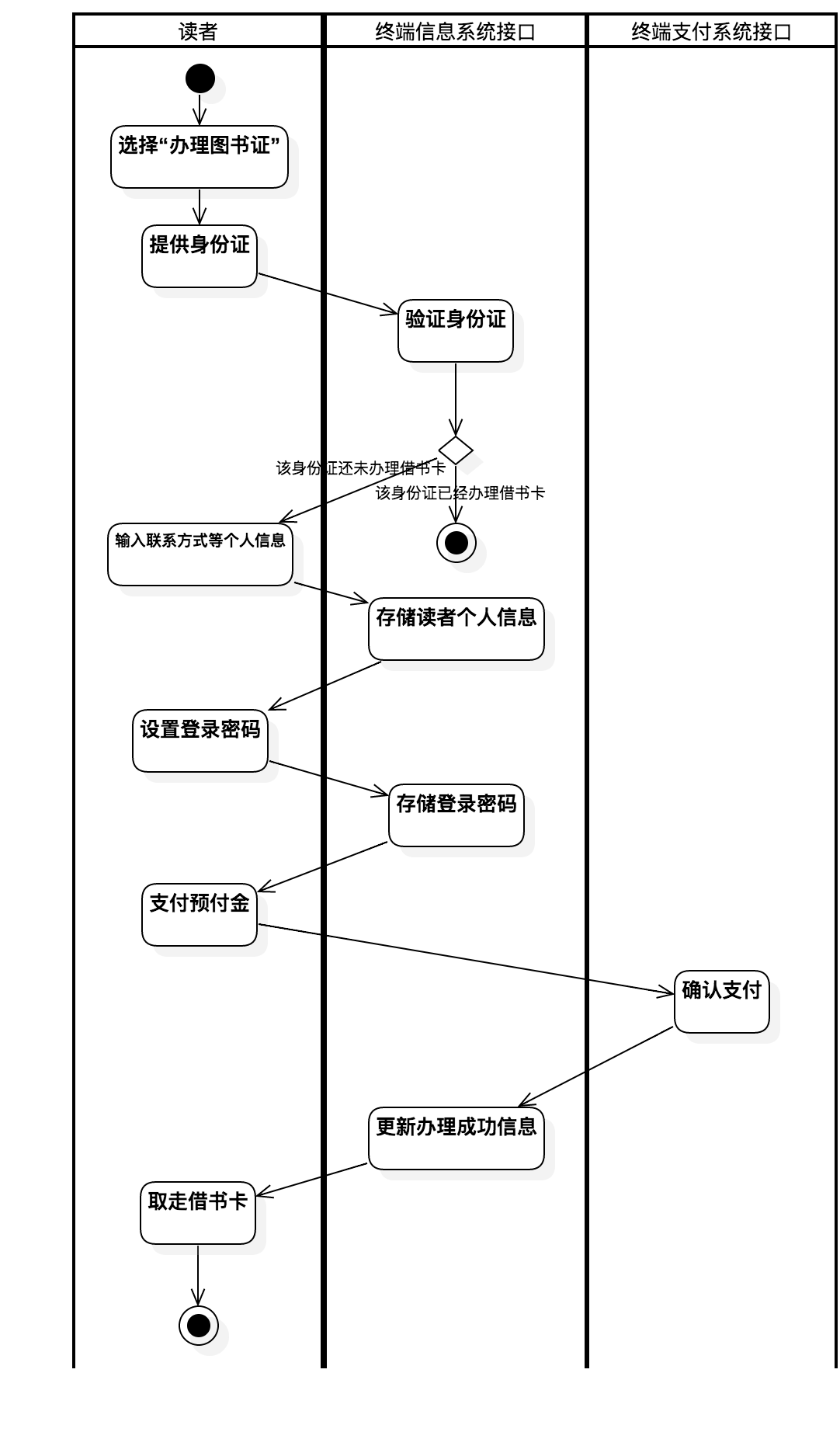
**Use Case**

**读者前台续借图书**

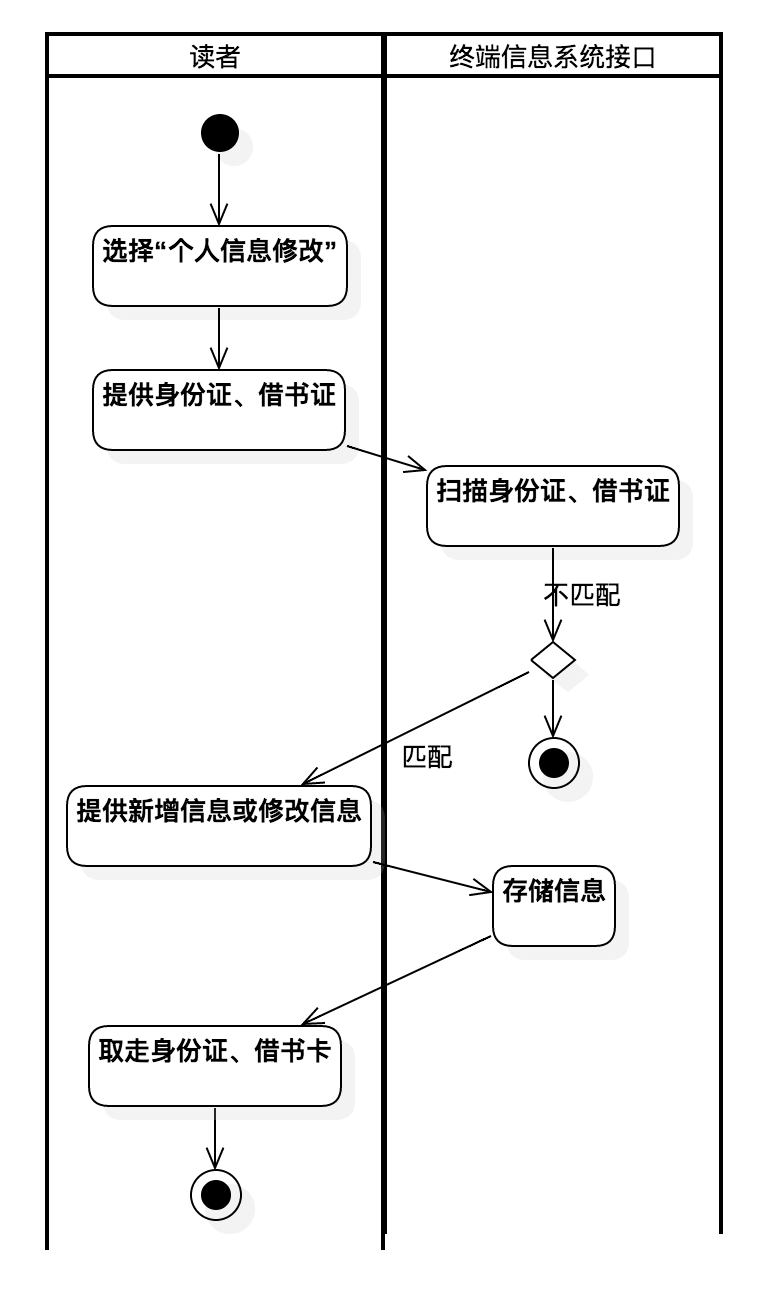
**读者网站预约图书**

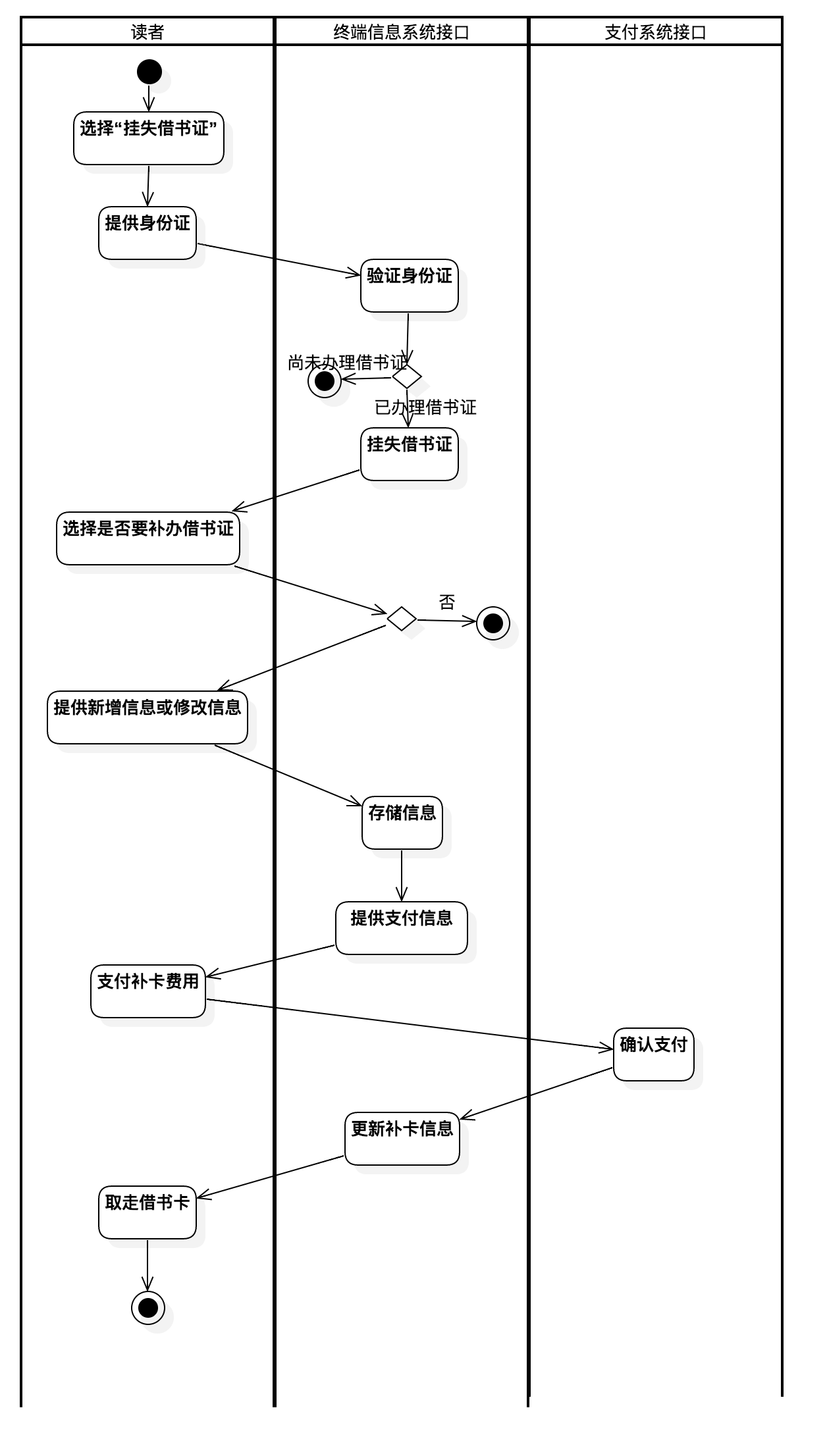
**读者网站借阅记录查询**

**读者网站个人信息修改读者网站书籍查询**

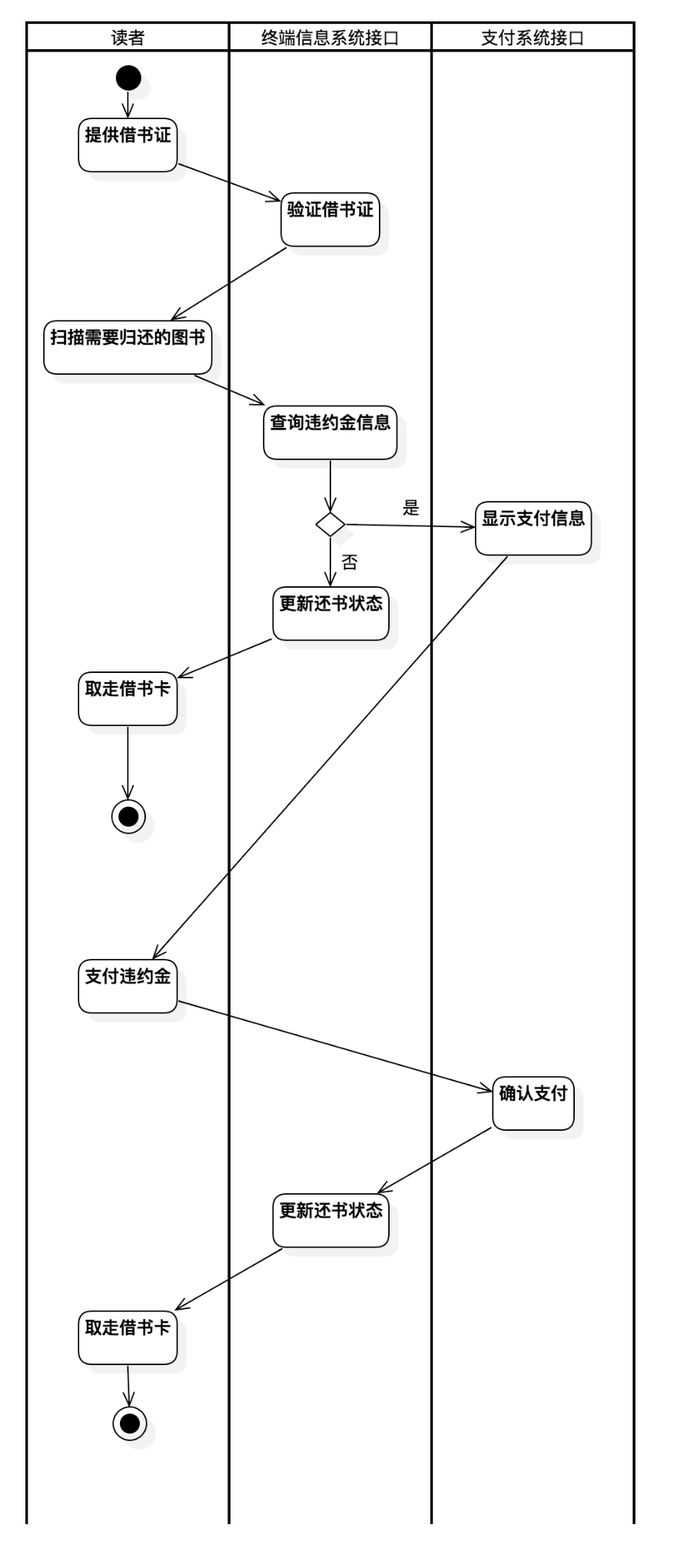
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**读者终端办理借书证**

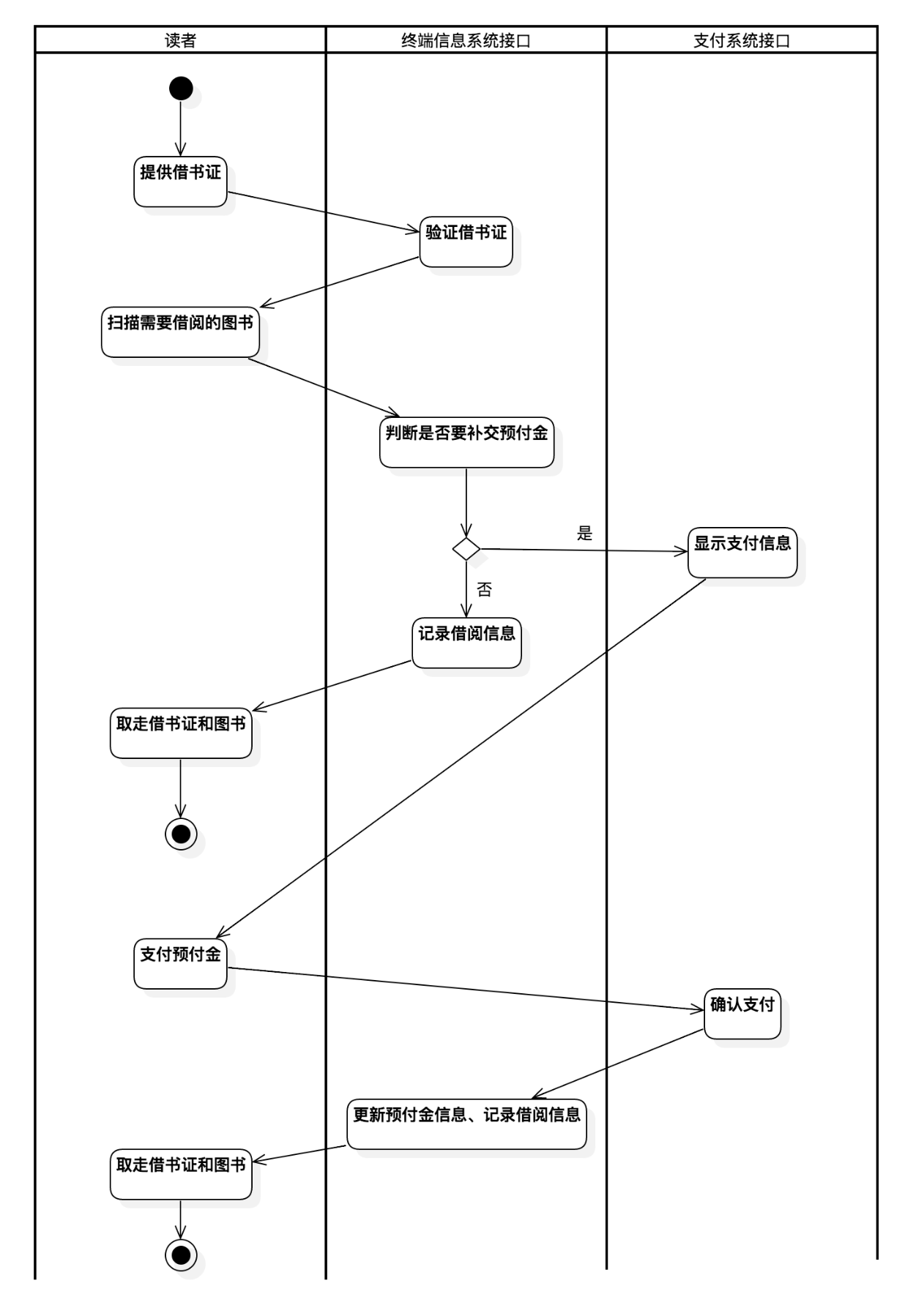
**读者终端个人信息修改**

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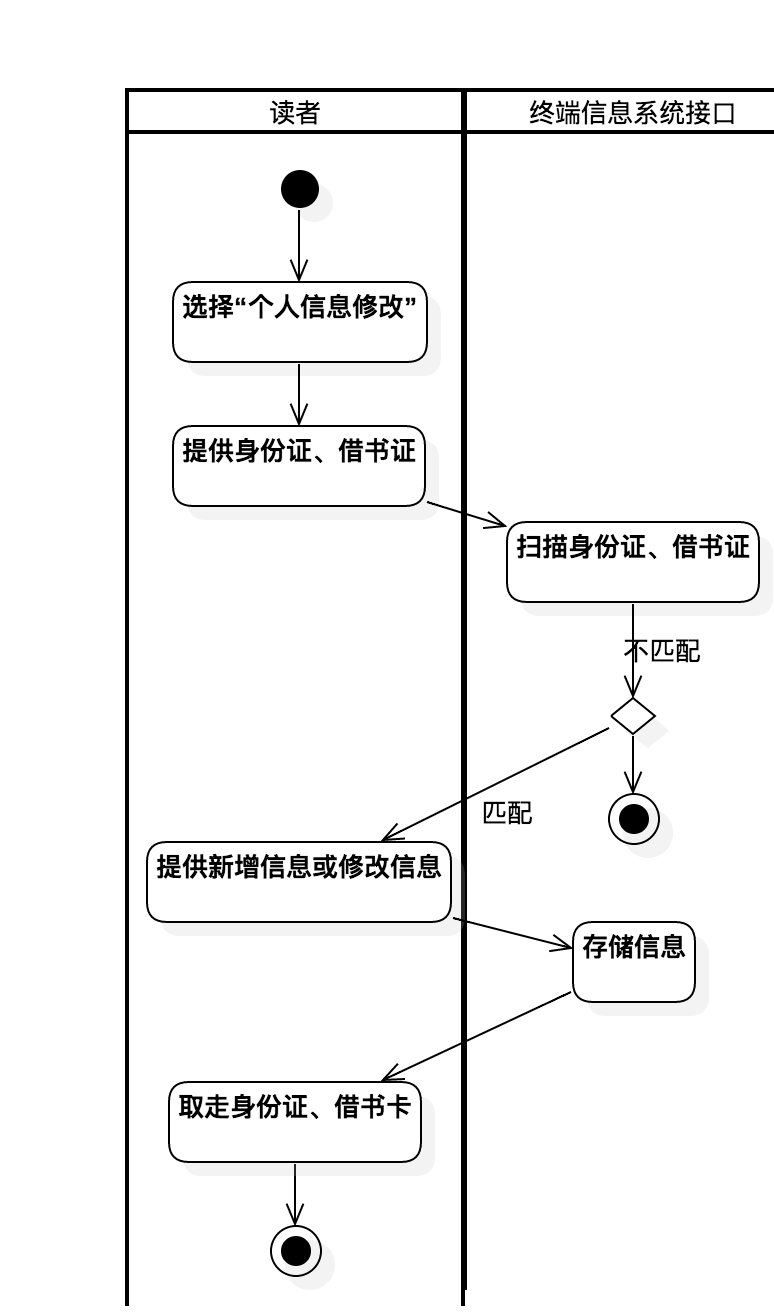
**读者终端借书证挂失**

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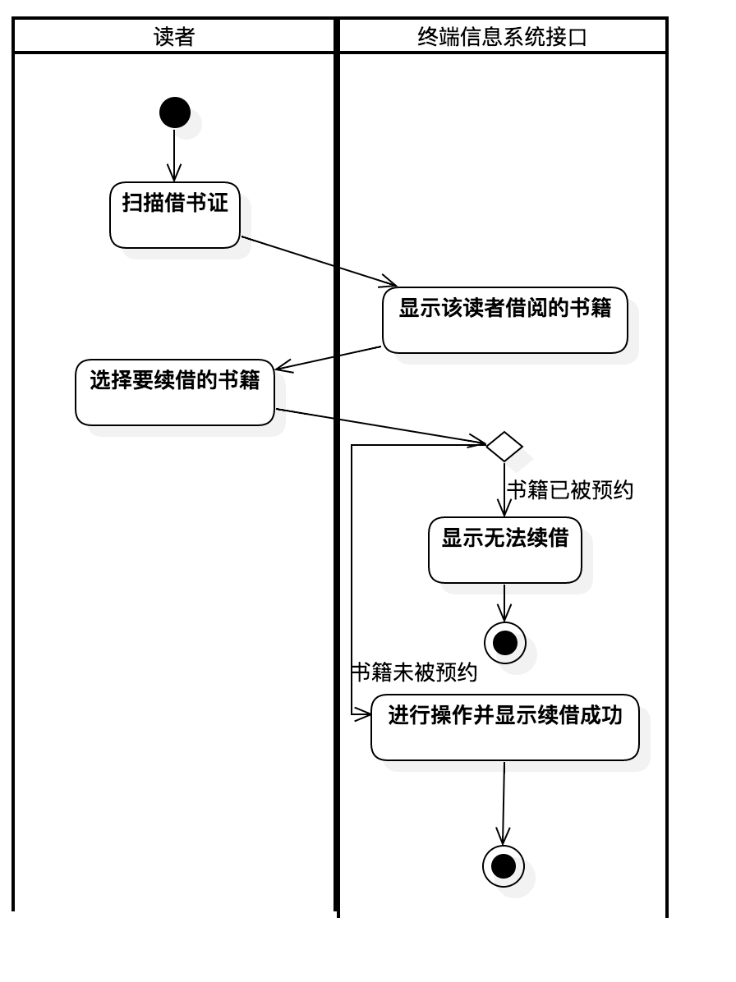
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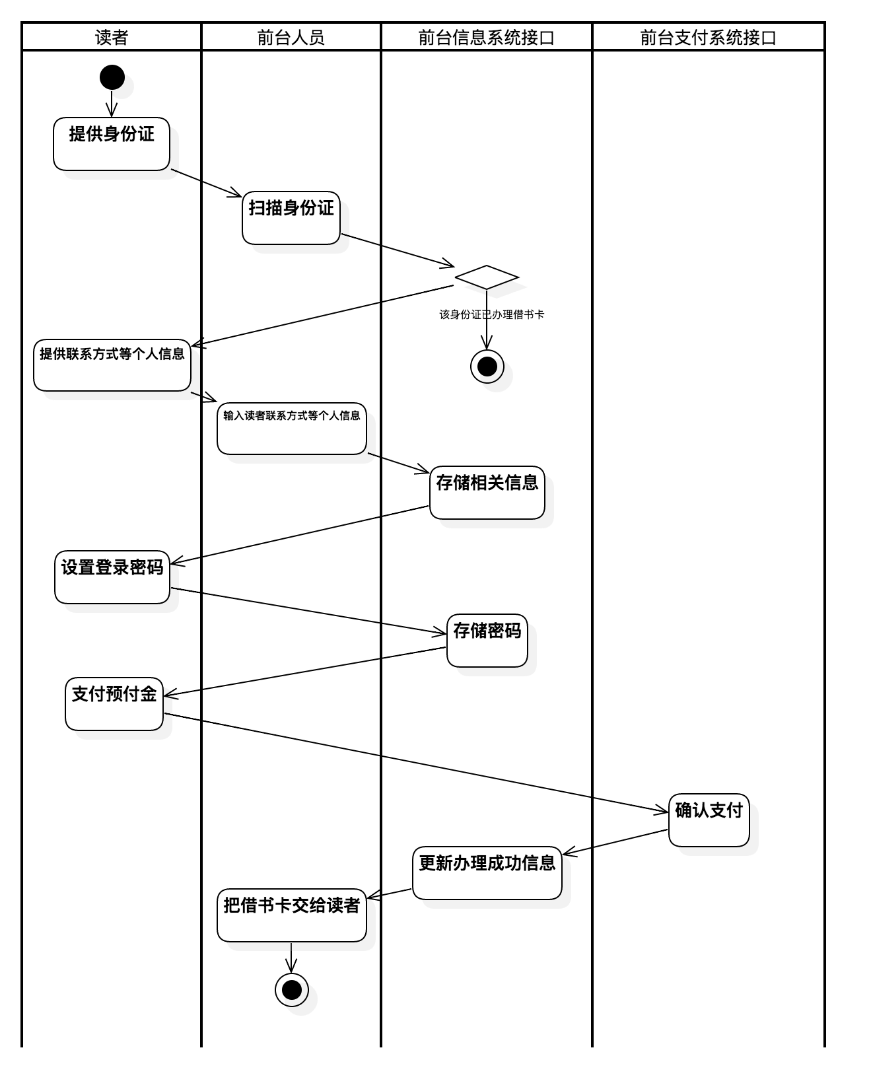
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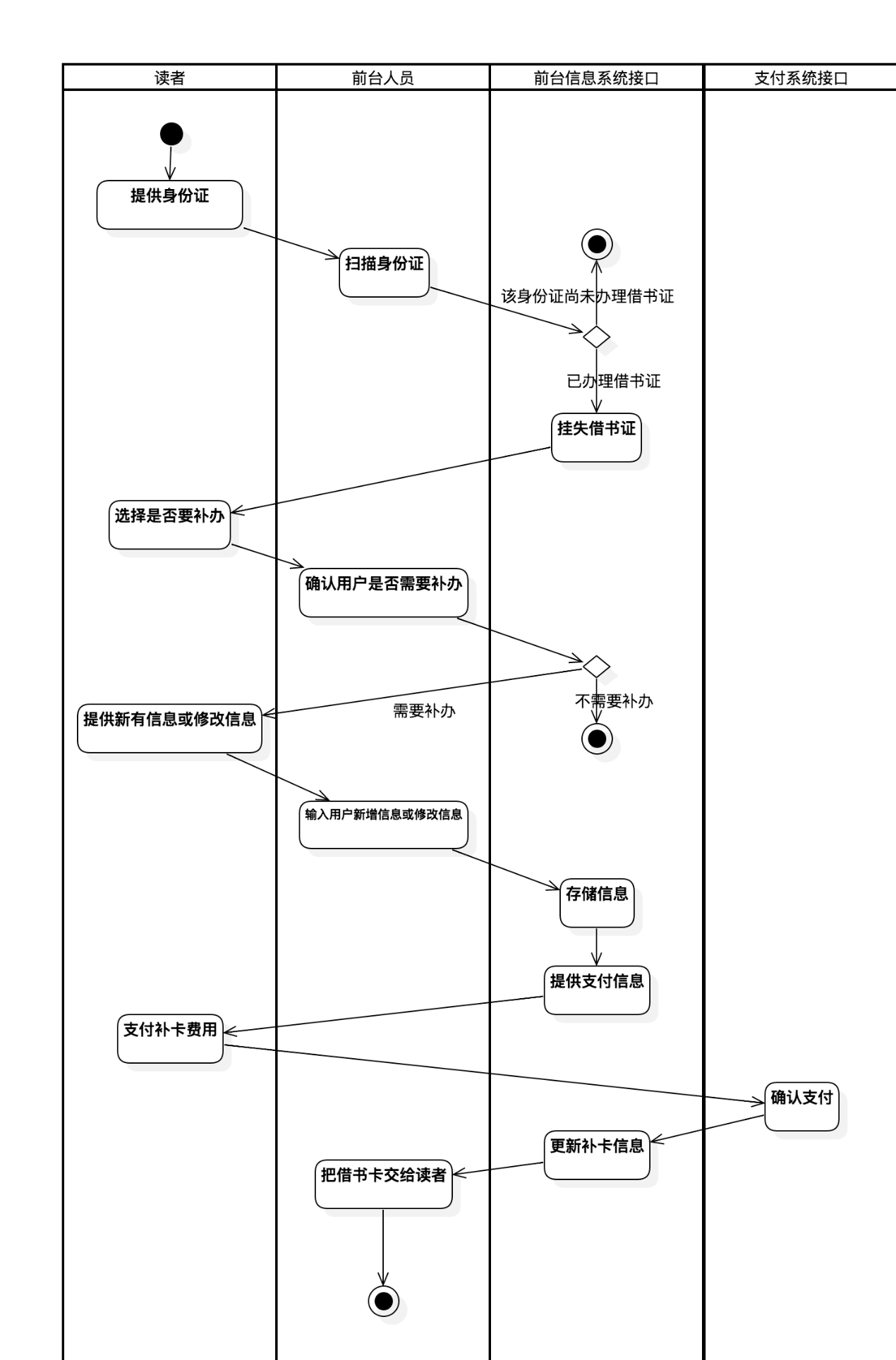
**读者终端借书**

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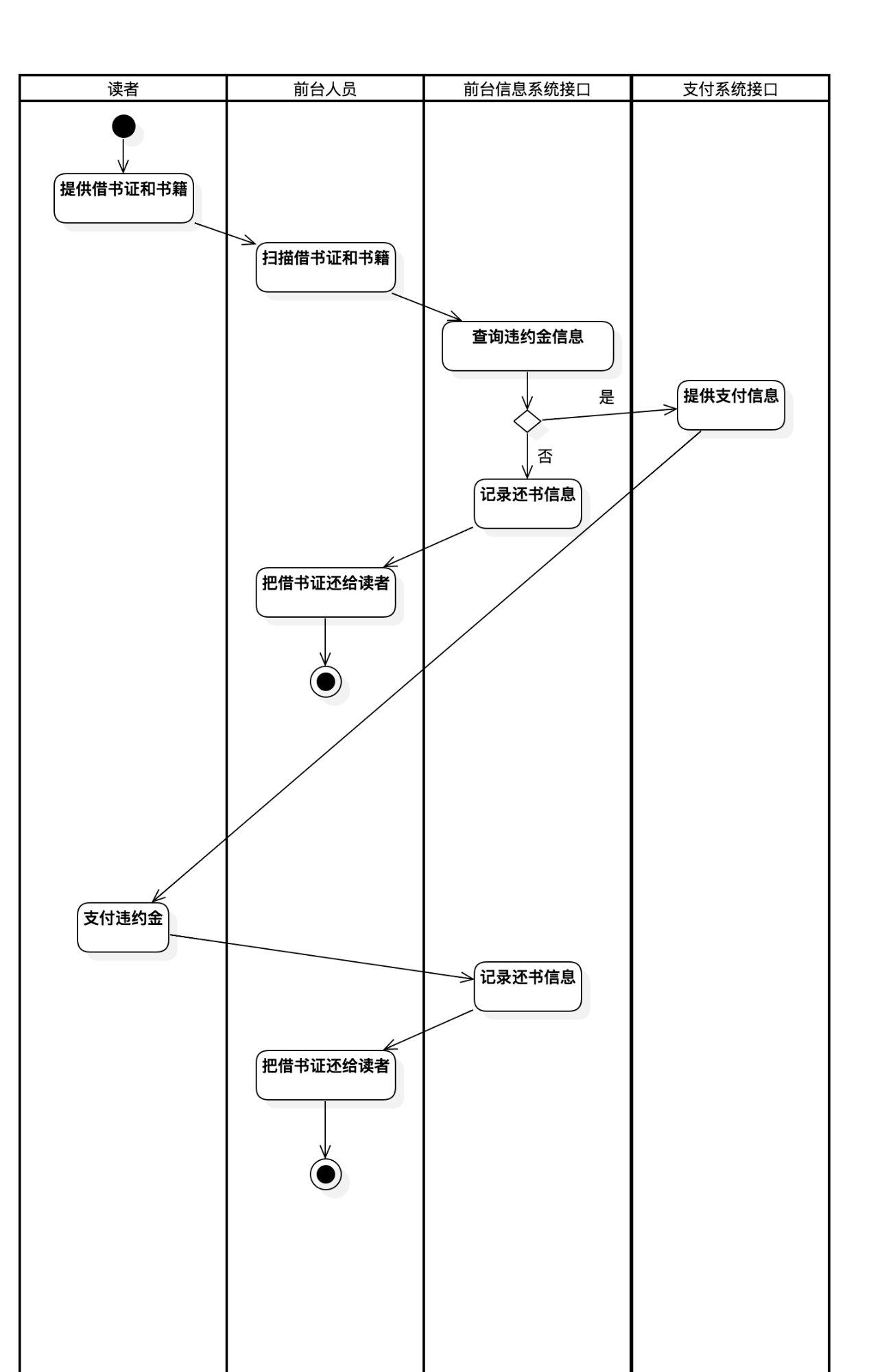
**读者终端修改个人信息**

**读者终端续借图书**

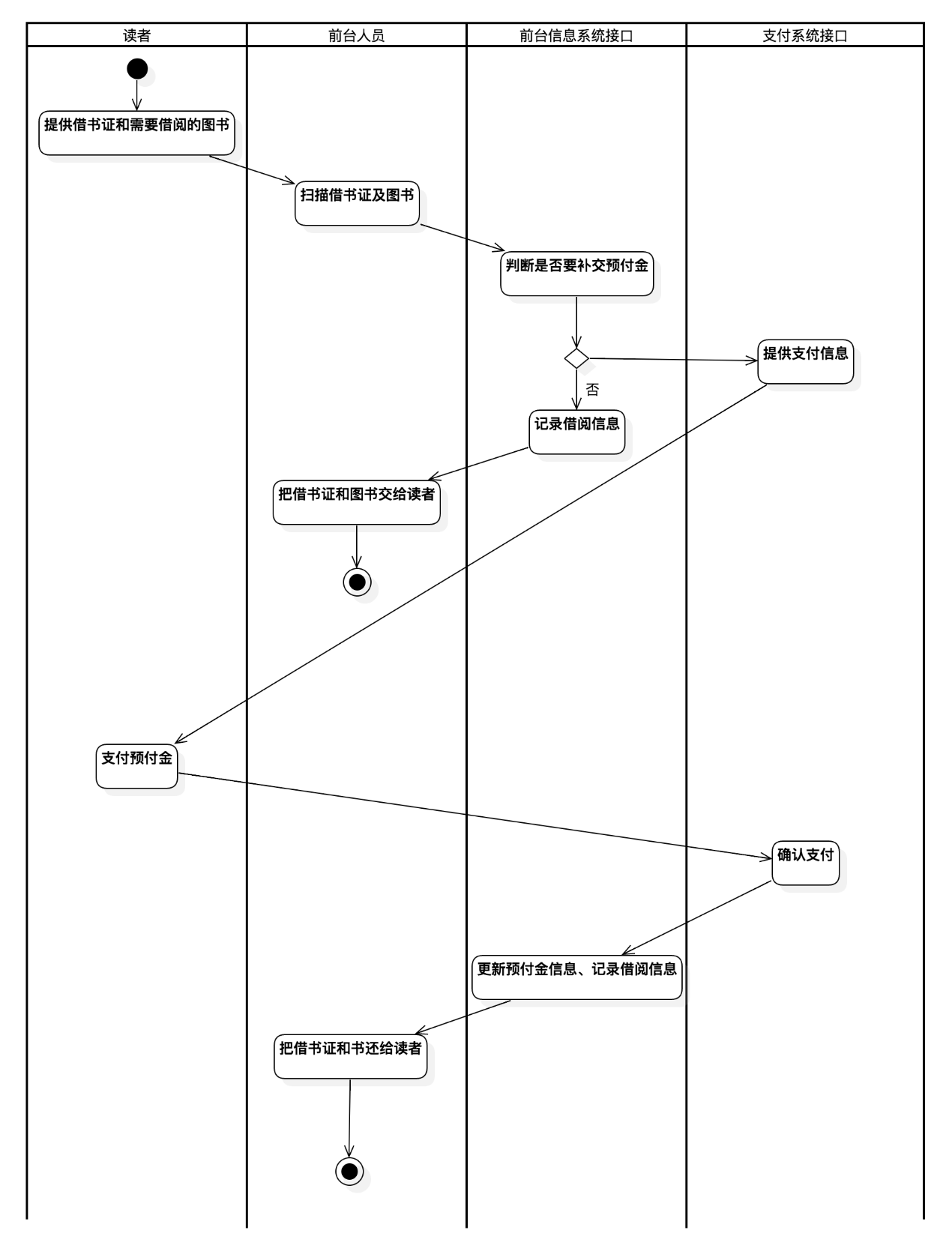
**前台办理借书证**

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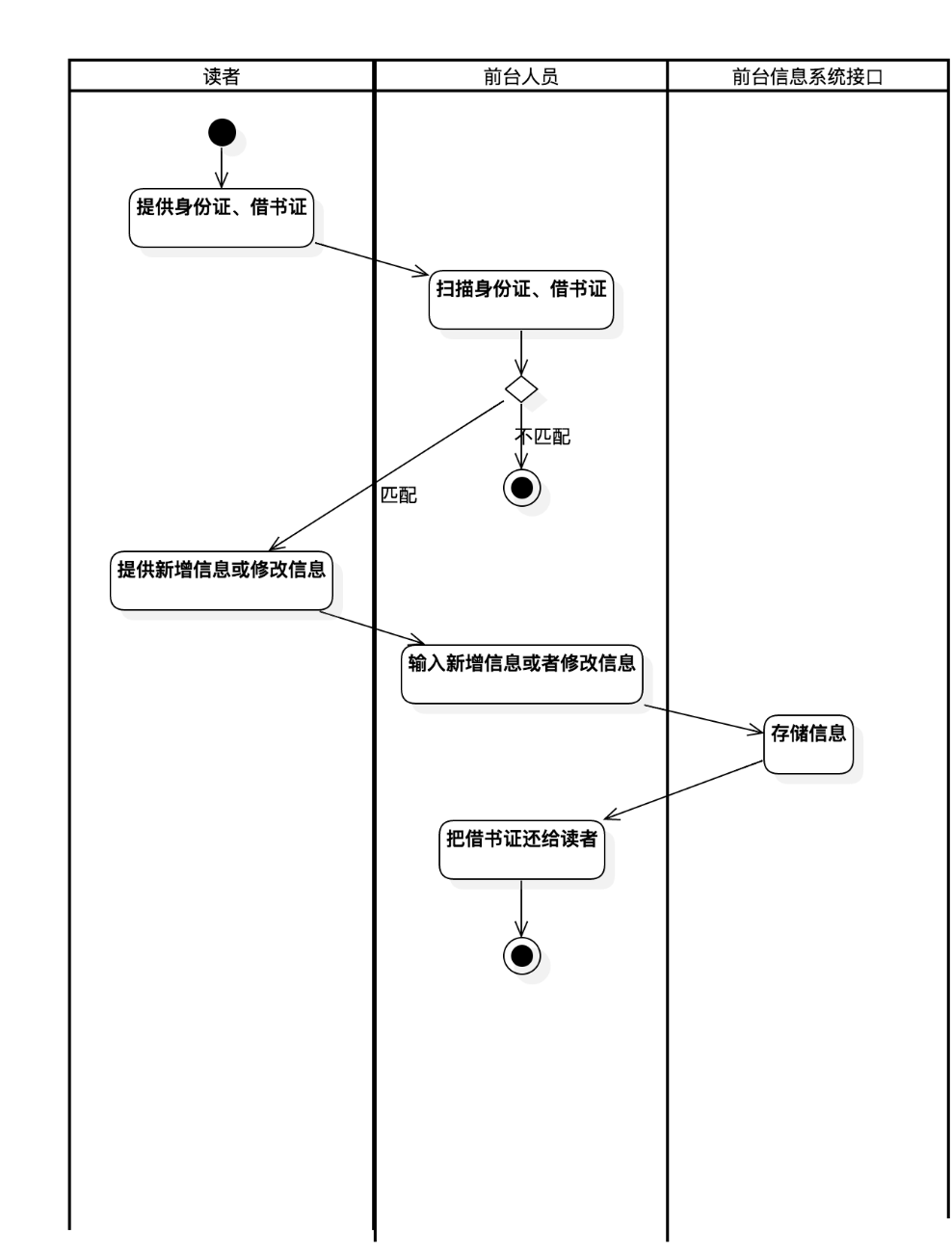
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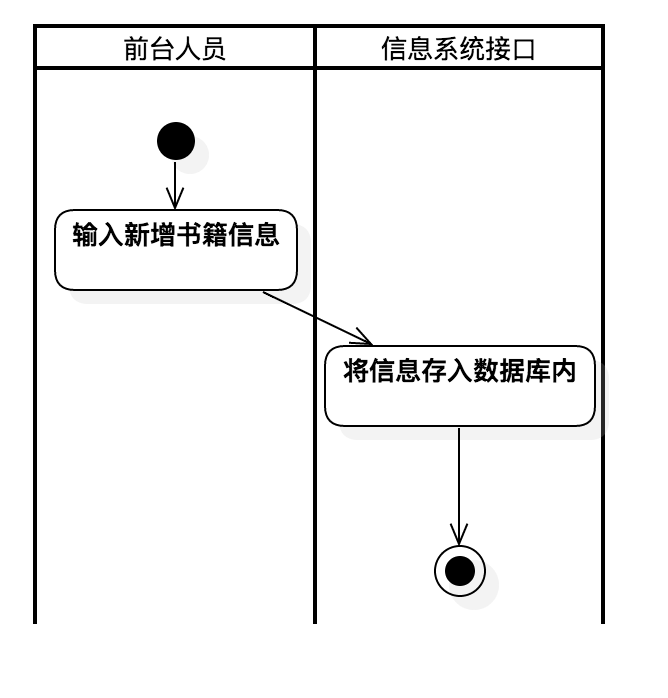
**读者前台还书**

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**读者前台借书**

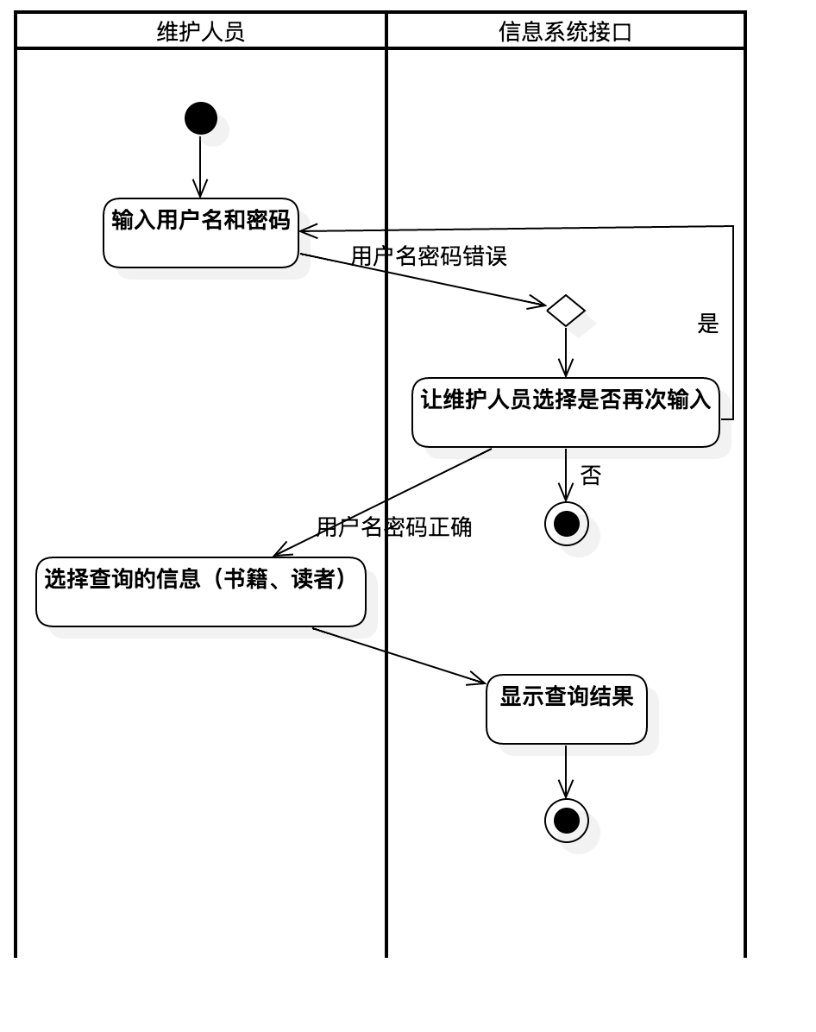
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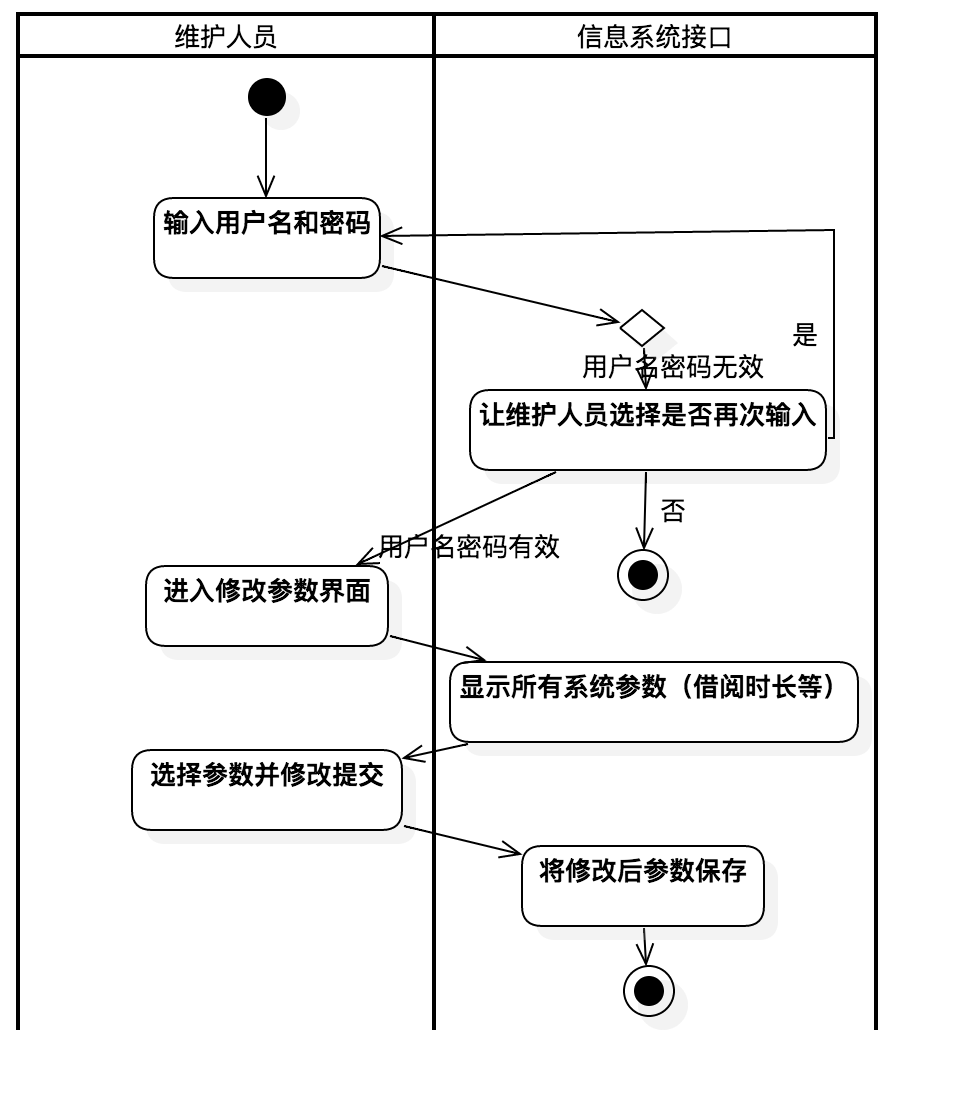
**读者前台修改个人信息**

**前台新增图书录入信息**

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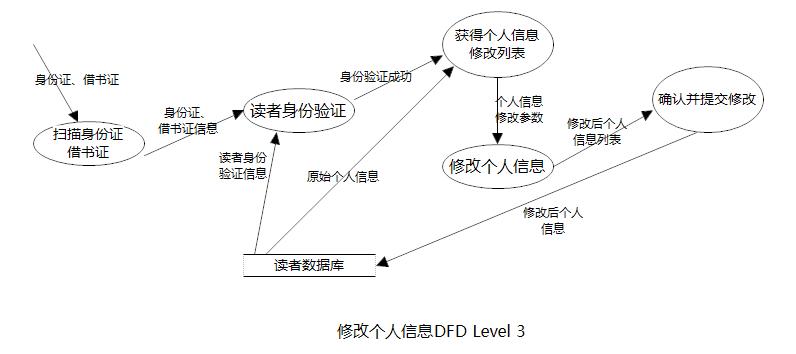
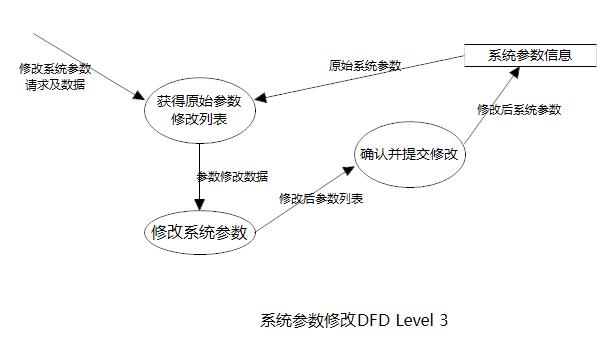
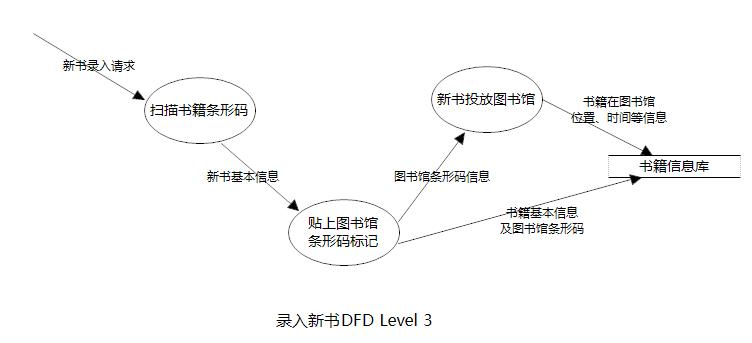
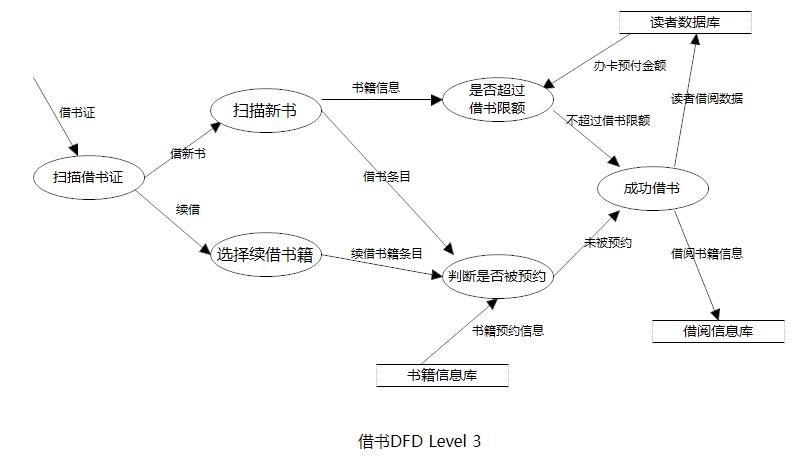
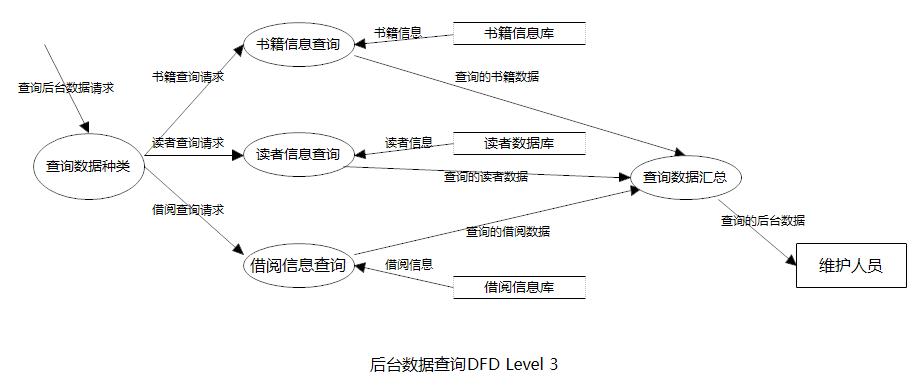
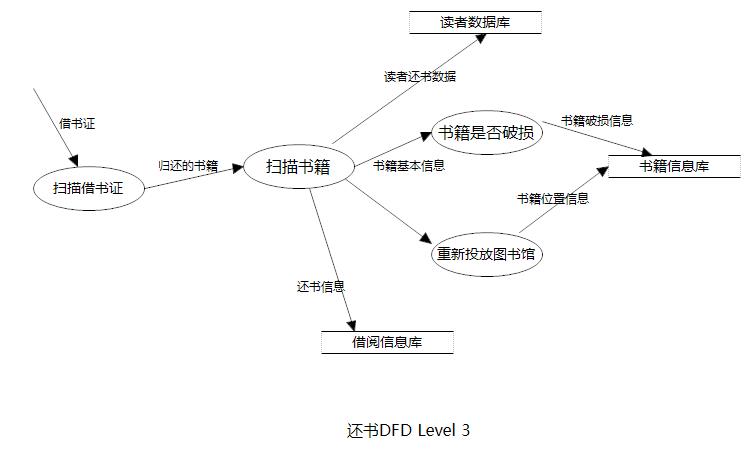
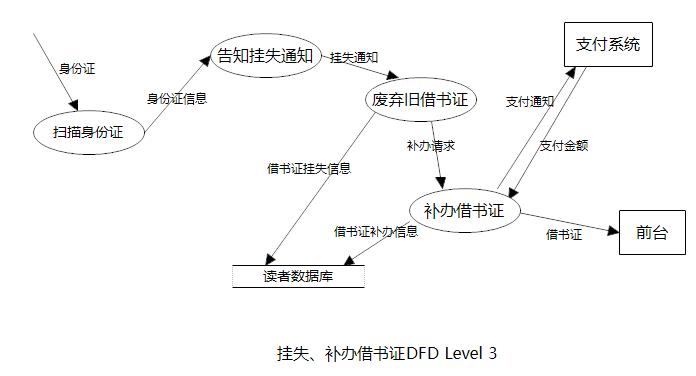
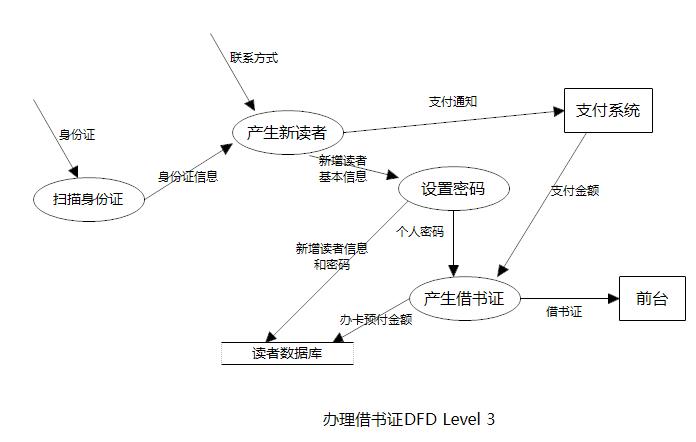
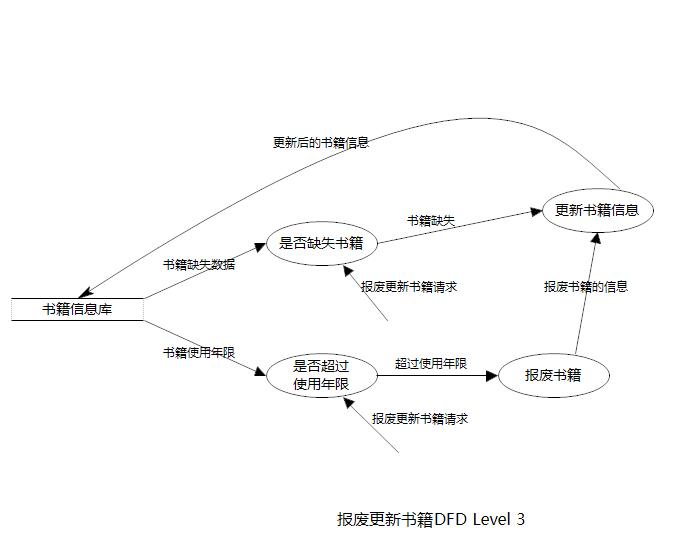
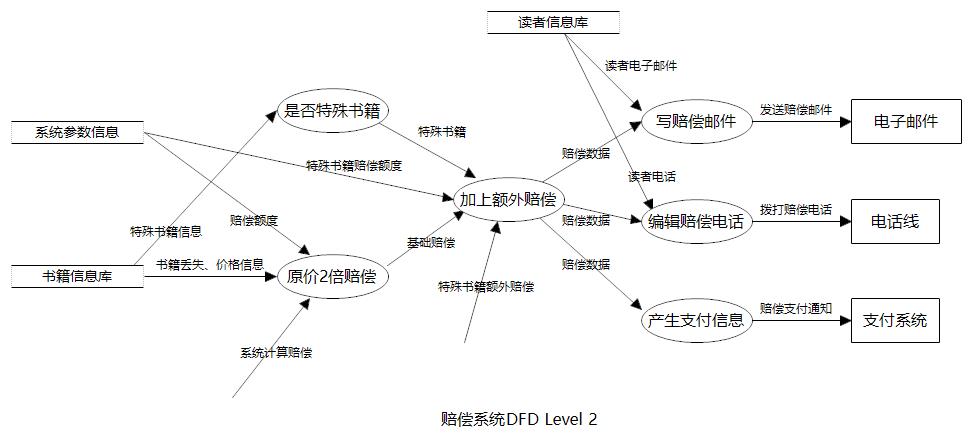
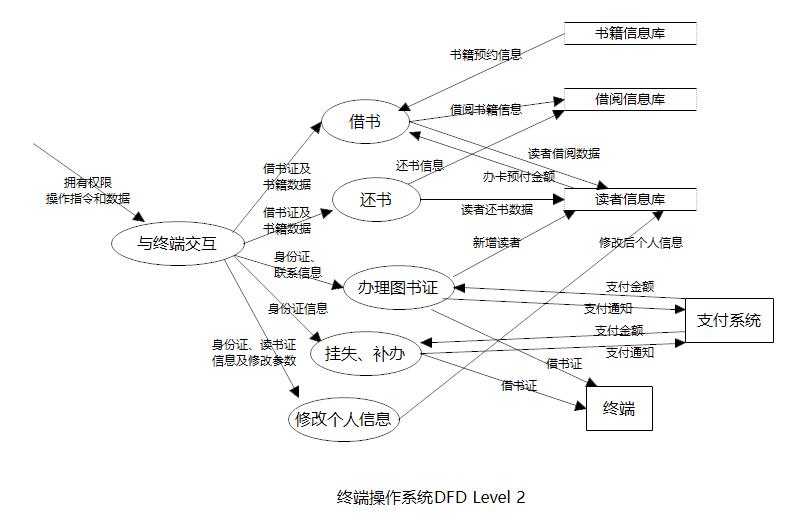
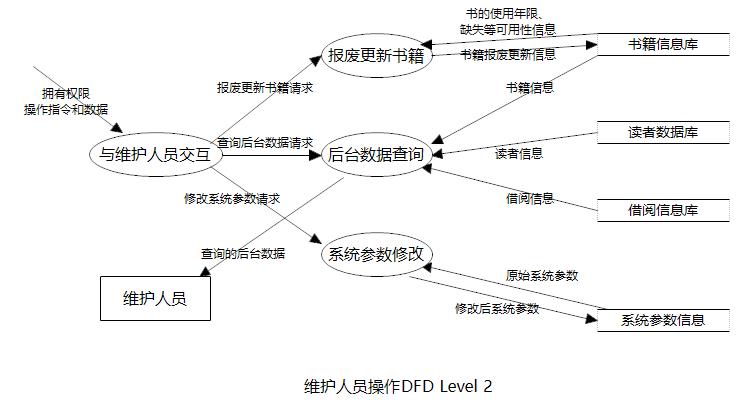
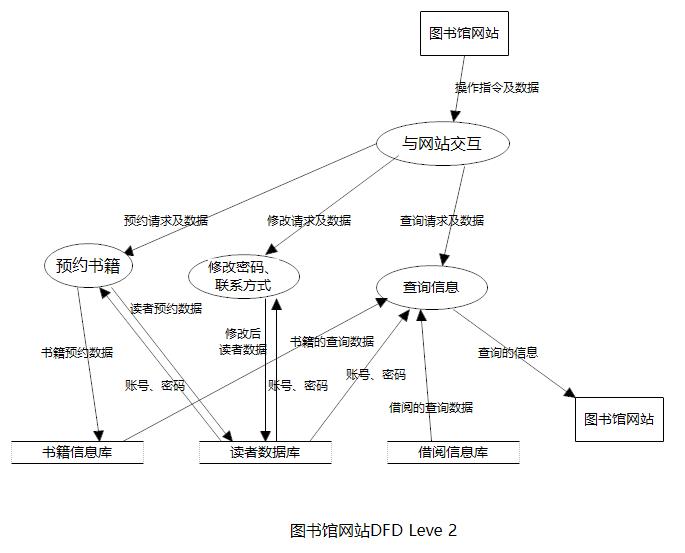
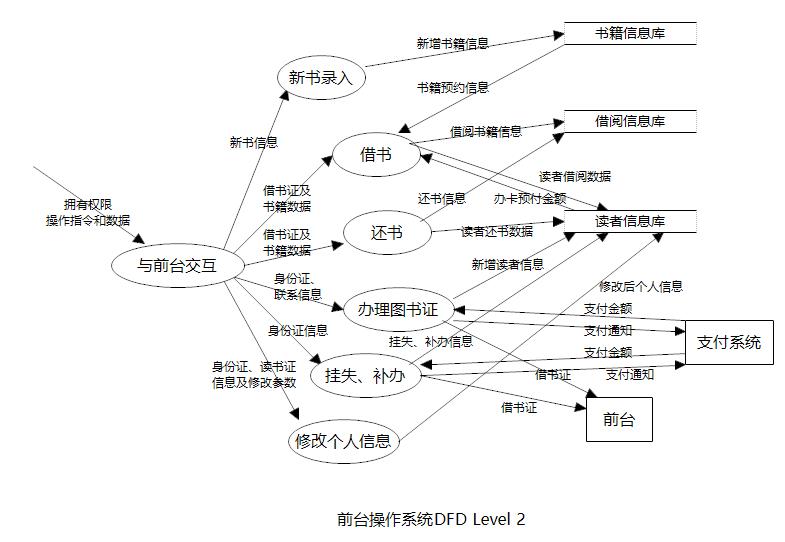
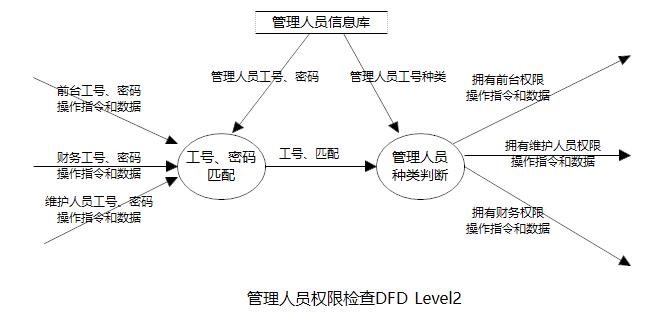
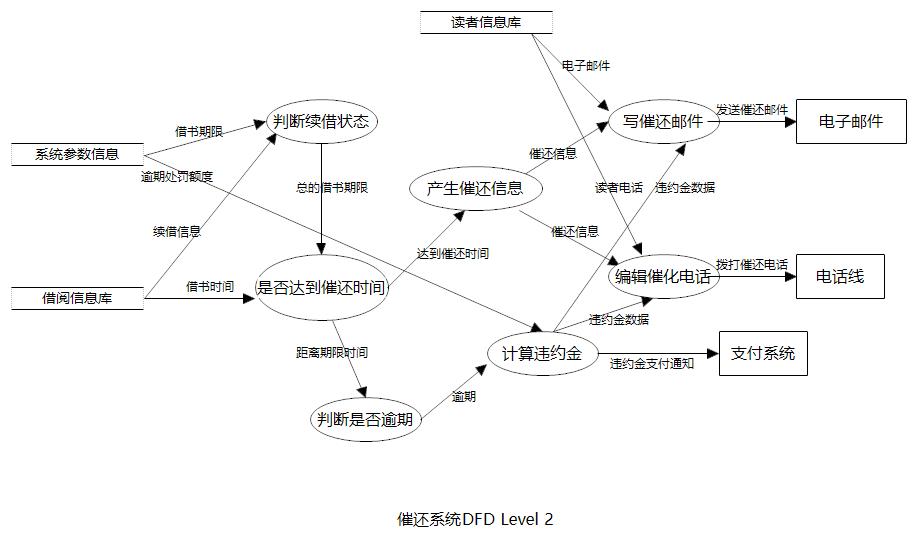
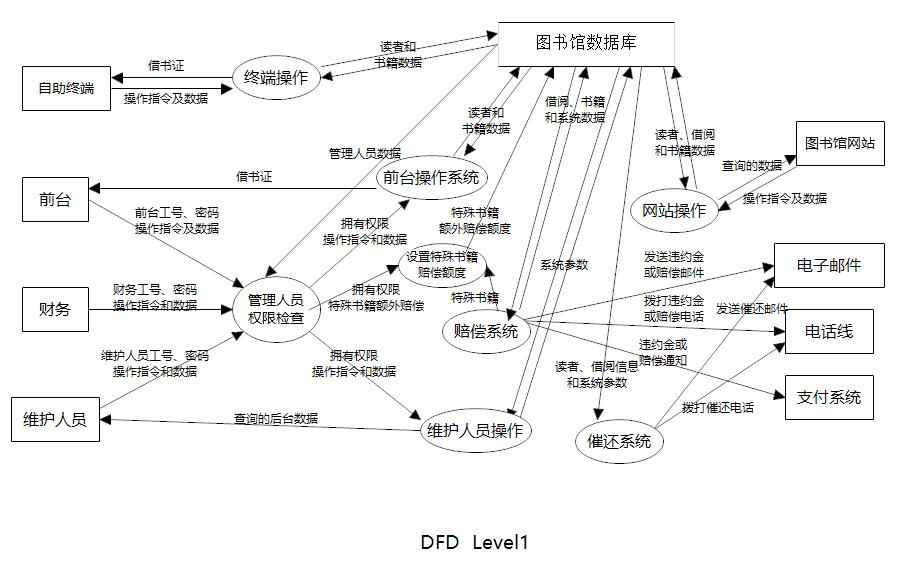
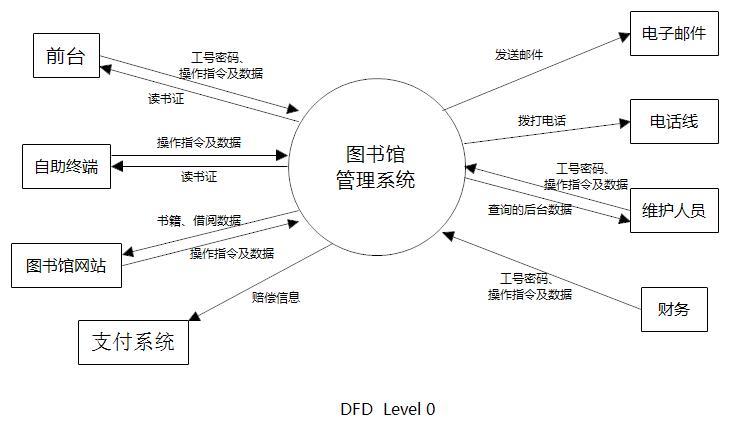
**维护人员管理图书年限，修改状态**

**维护人员查询信息**

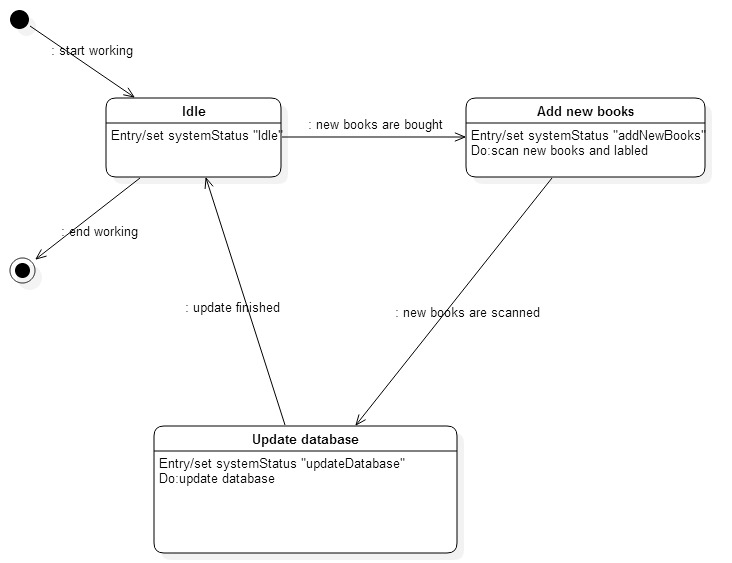
**维护人员修改后台参数**

**财务人员更新特殊书籍赔偿参数**

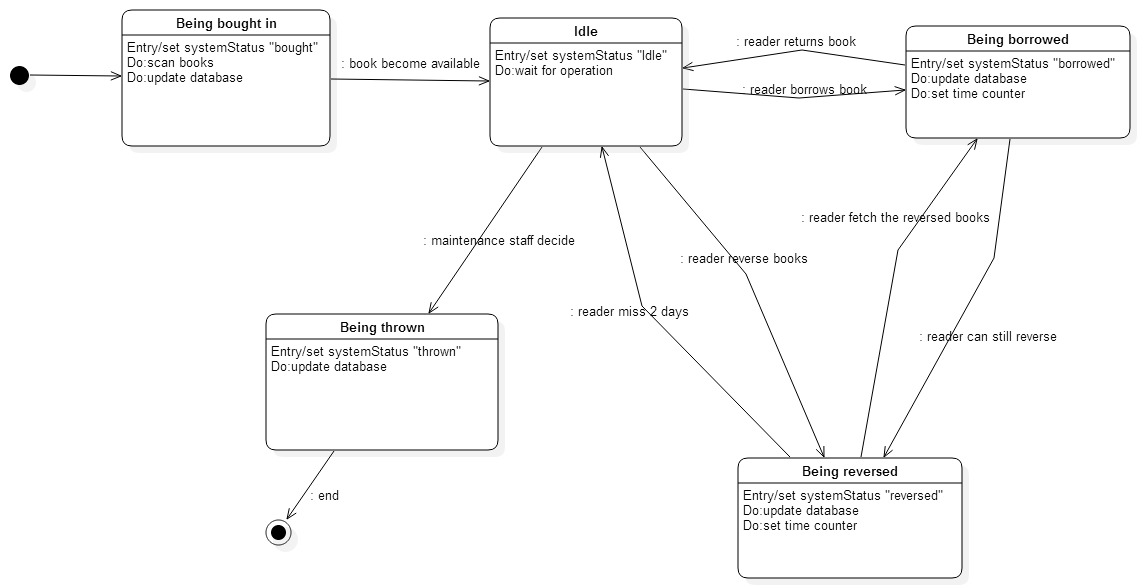
数据流模型

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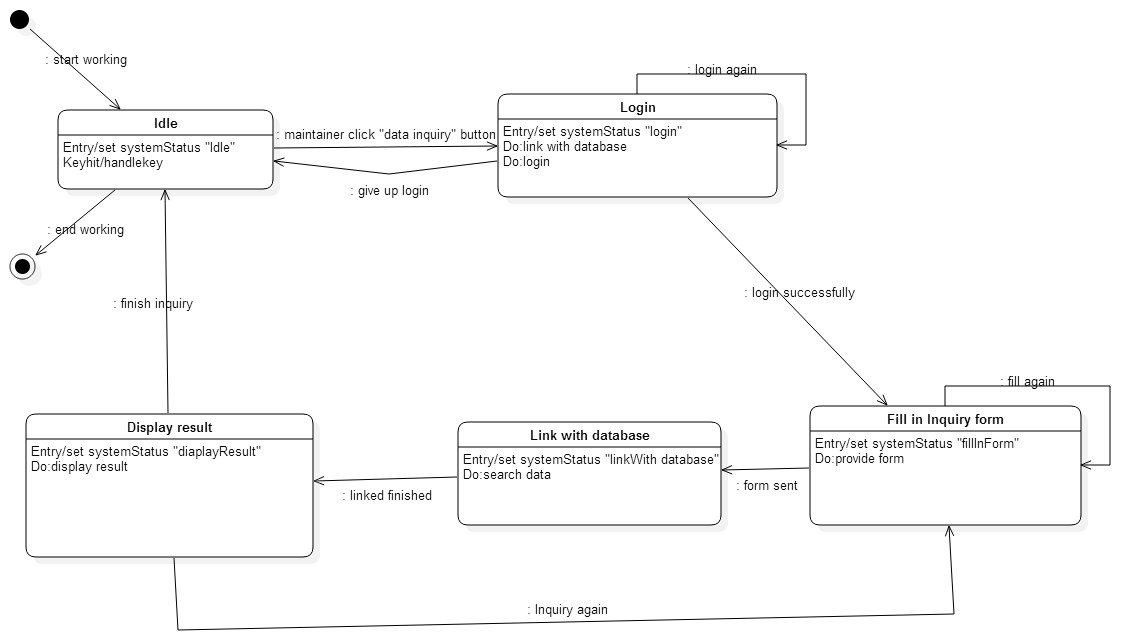
行为模型

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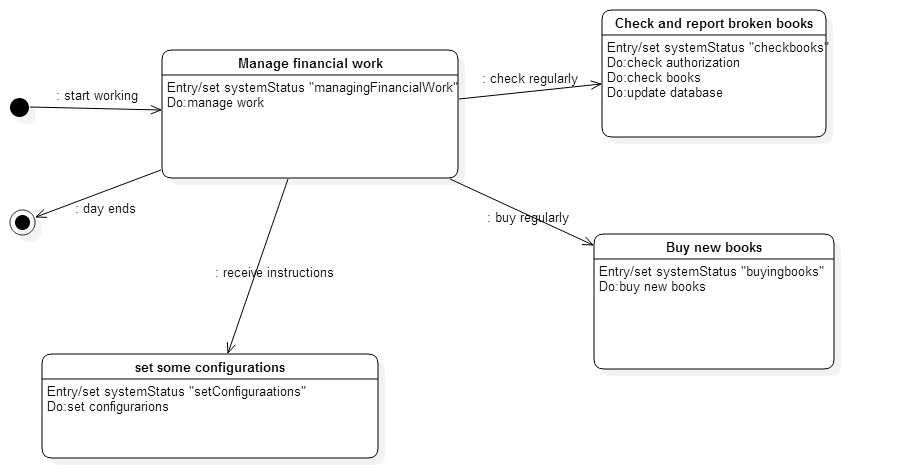
**↑<Add new books> State Diagram**

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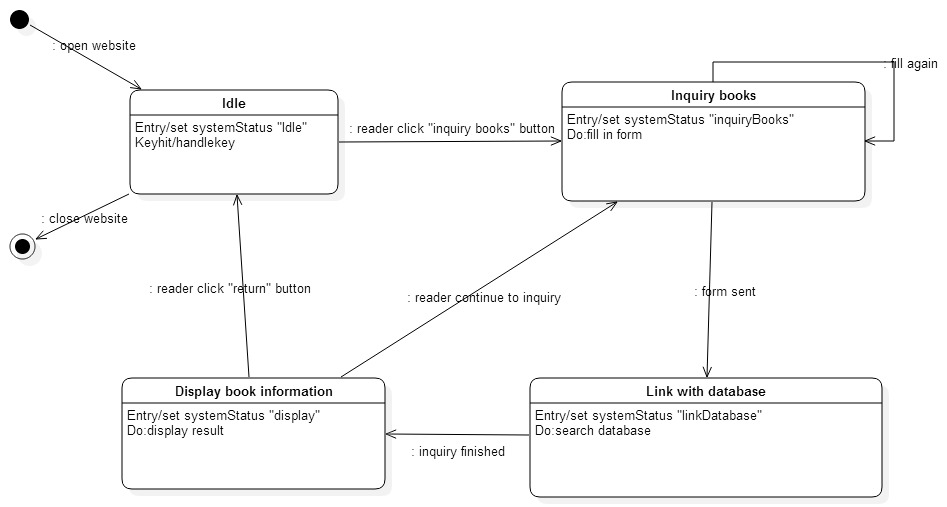
**↑<Book> State Diagram**

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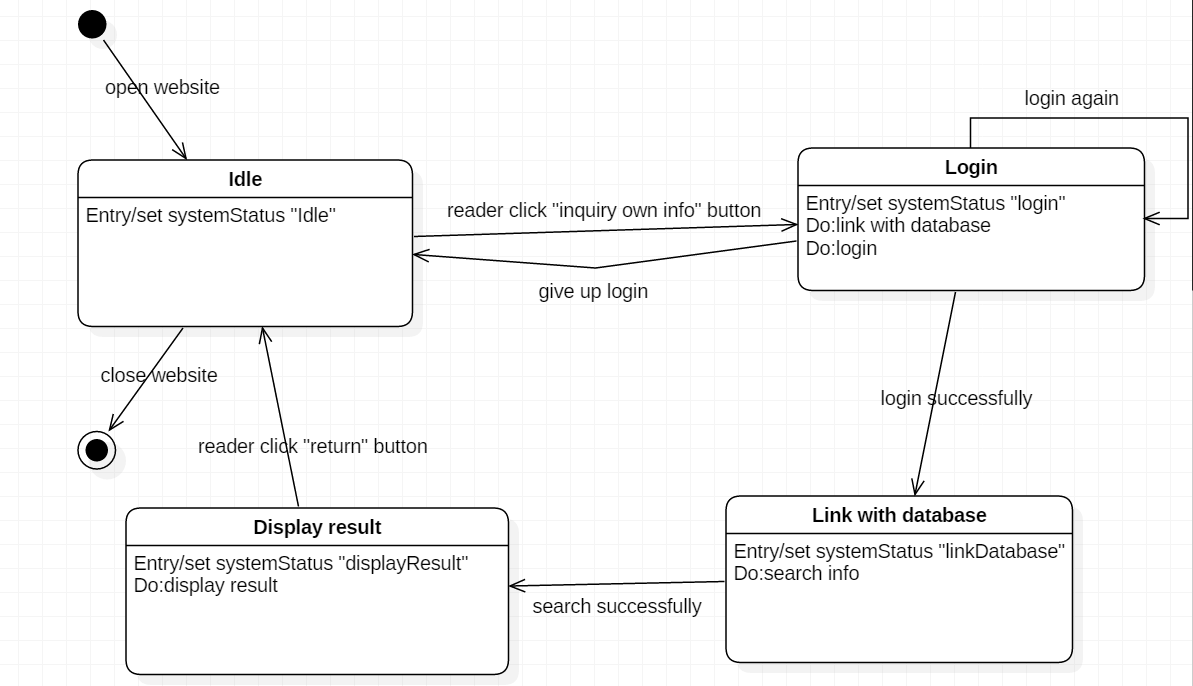
**↑<Data Inquiry> State Diagram**

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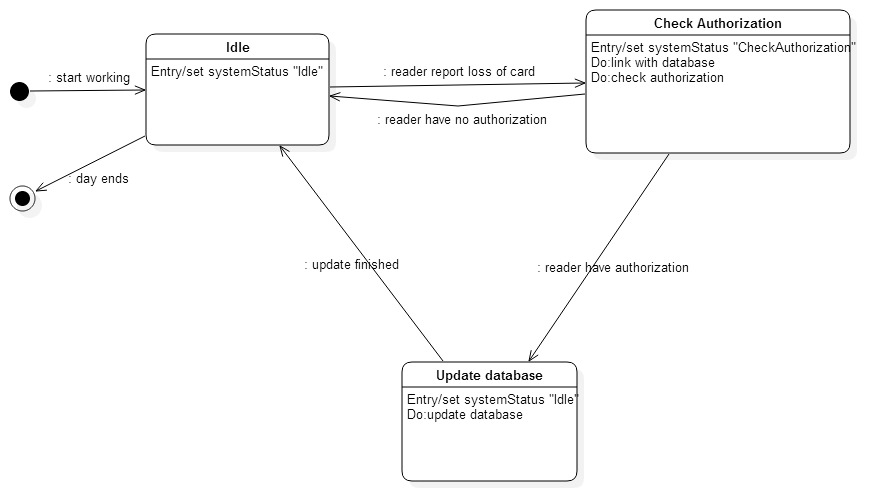
**↑<Finacial Staff> State Diagram**

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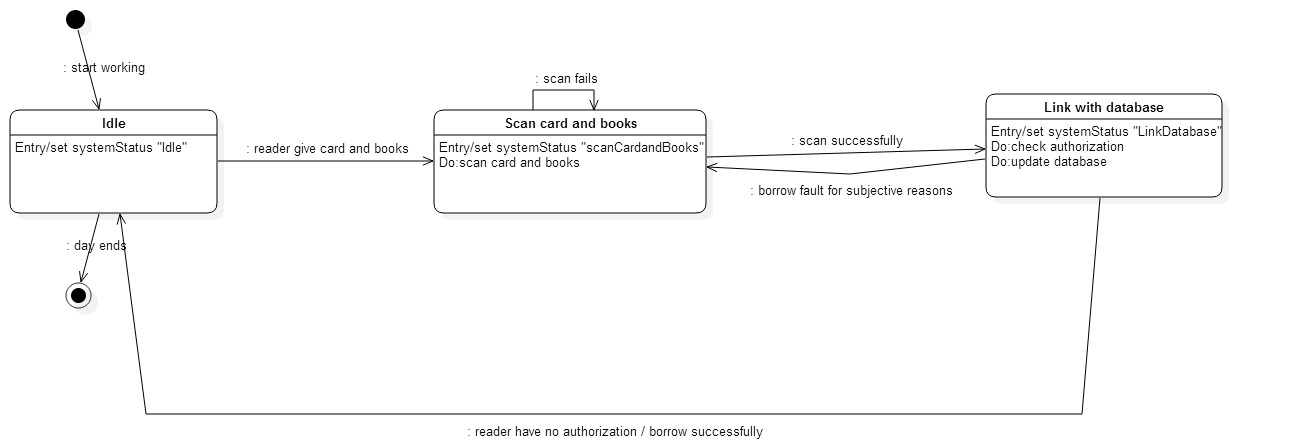
**↑<Reader Inquiry Book Information> State Diagram**



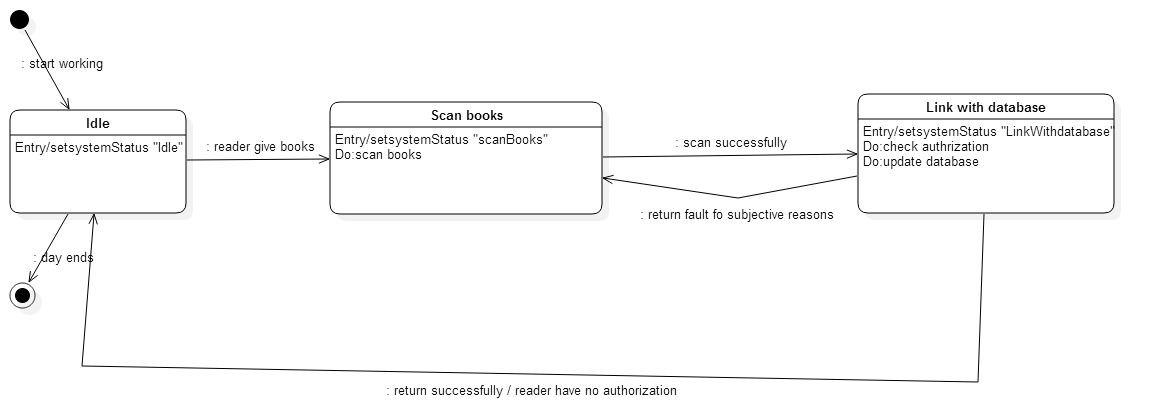
**↑<Reader Inquiry Own Info> State Diagram**

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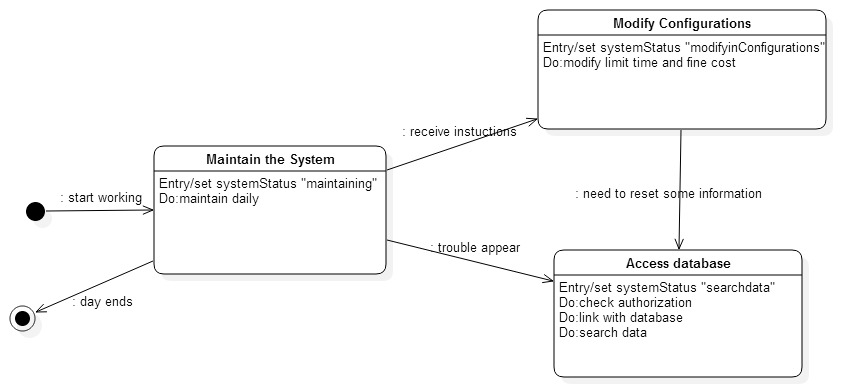
**↑<Loss Card> State Diagram**

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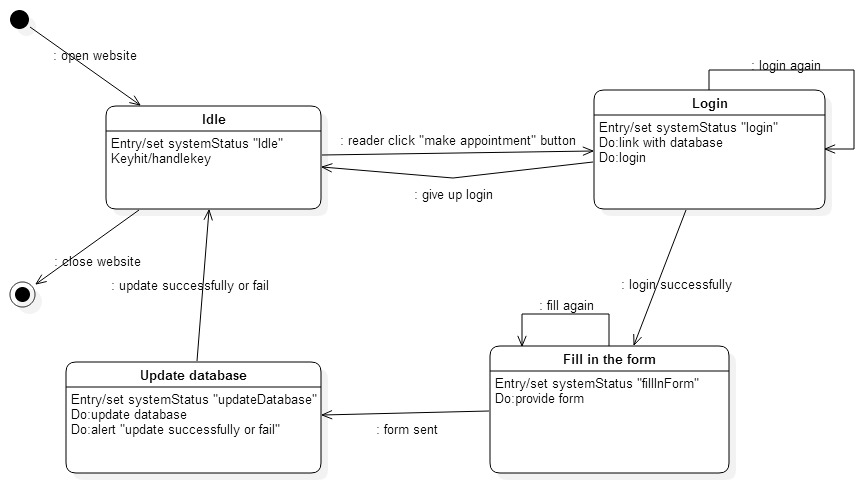
**↑<Reader Borrow Books On Machine> State Diagram**

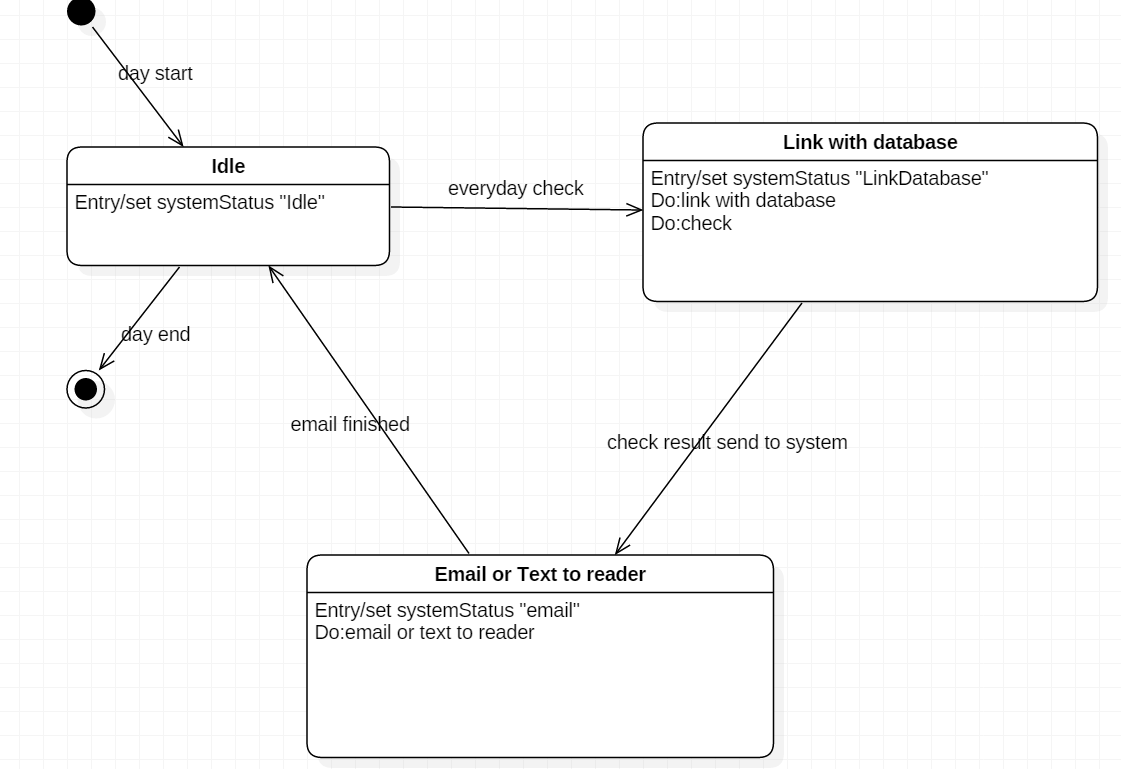
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**↑<Reader Return Books On Machine> State Diagram**

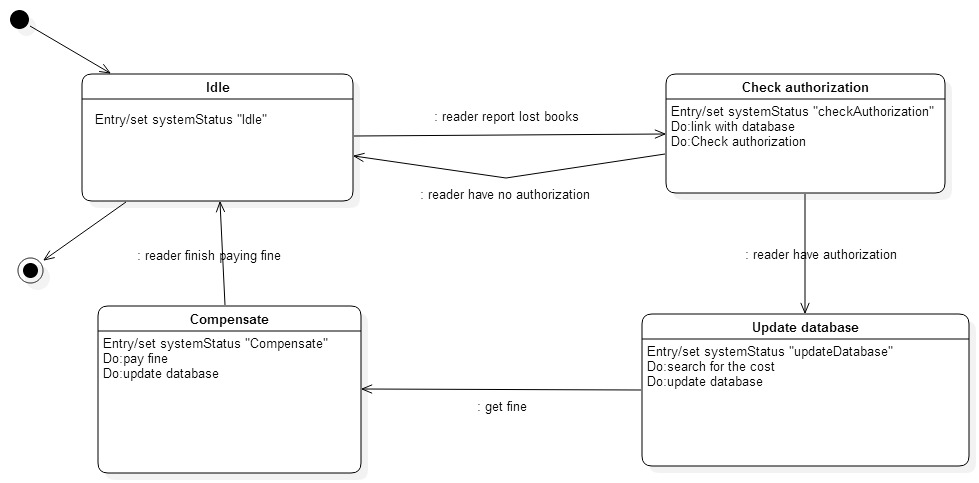
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**↑<Maintainer> State Diagram**

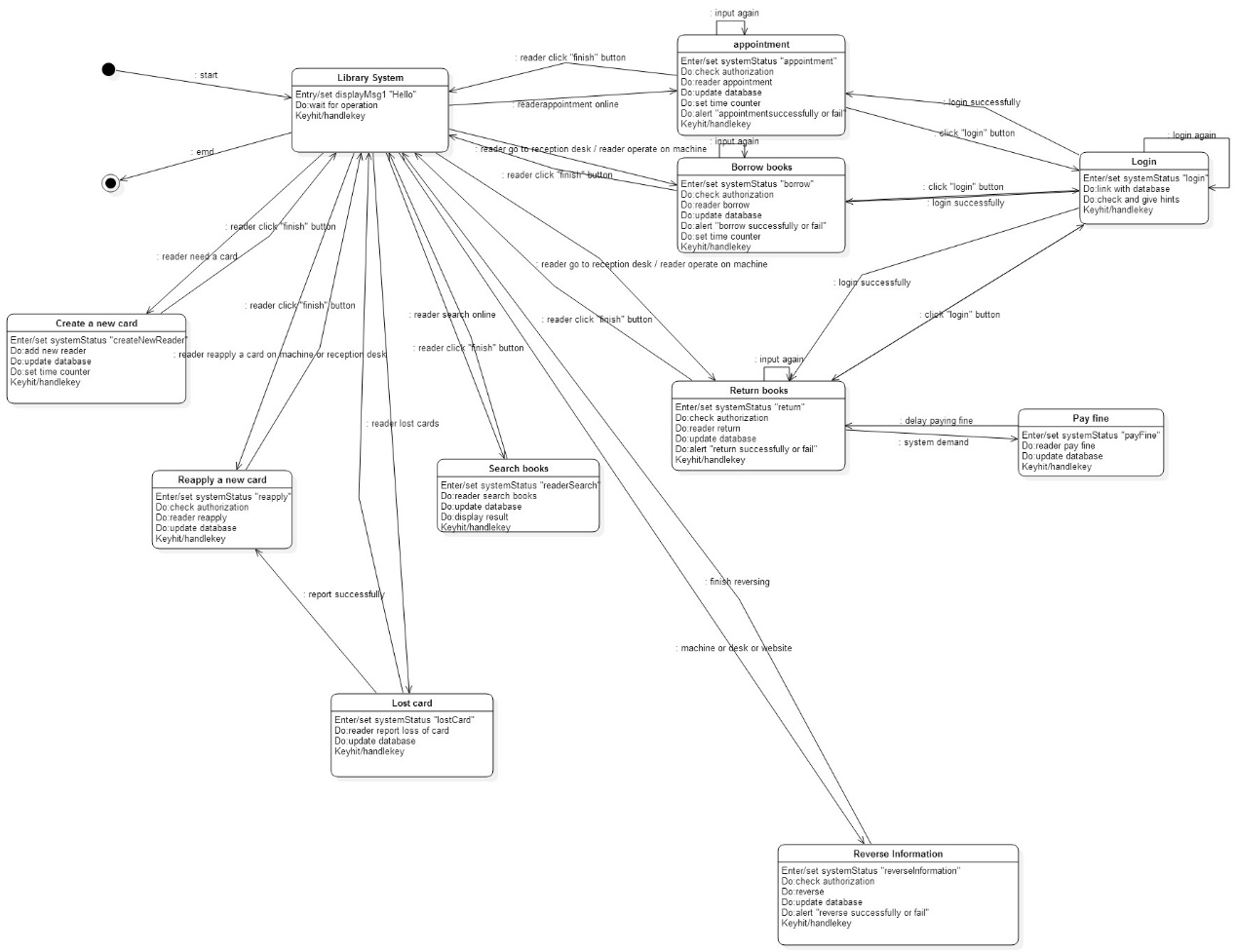
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**↑<Reader Make Appointment On Website> State Diagram** 

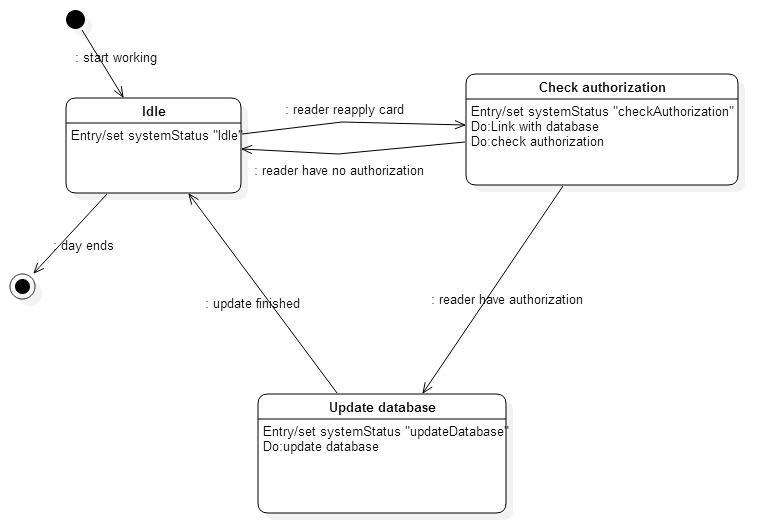
**↑<Calculate Fine And Inform Reader > State Diagram**

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**↑<Reader Compensate Lost Books > State Diagram**

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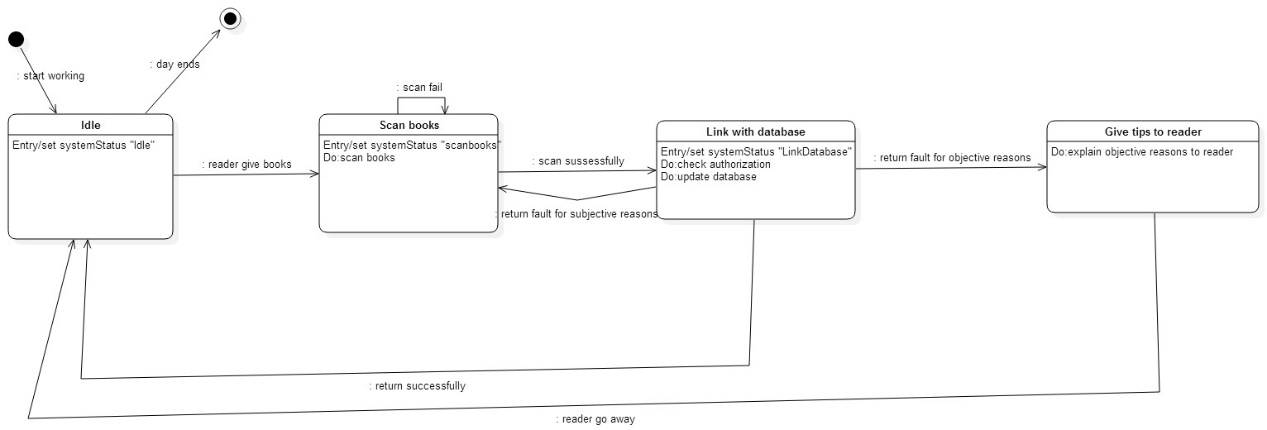
**↑<Reader> State Diagram**

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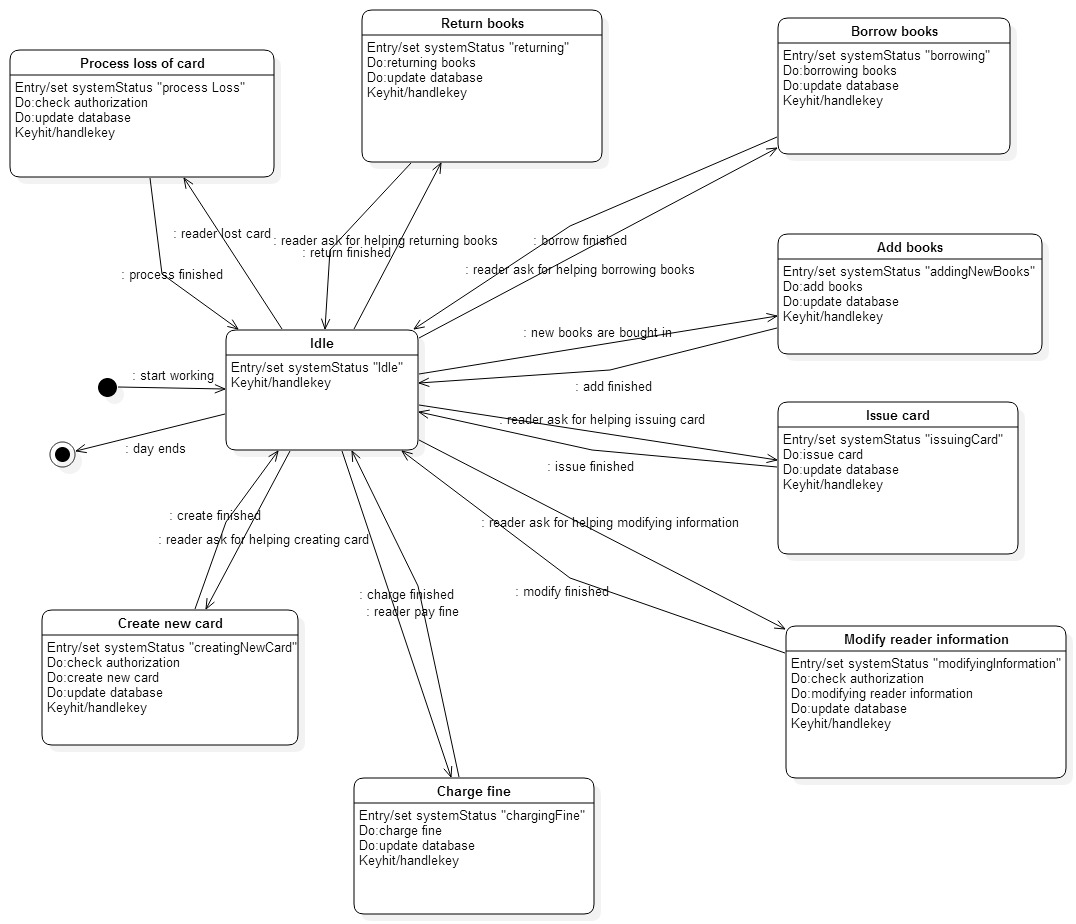
**↑<Reader Reapply Card> State Diagram**

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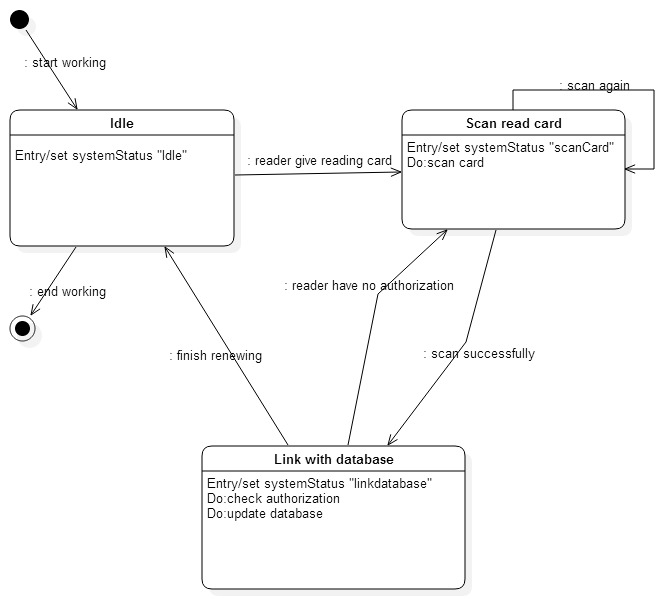
**↑<Reader Borrow Books On Reception Desk> State Diagram**

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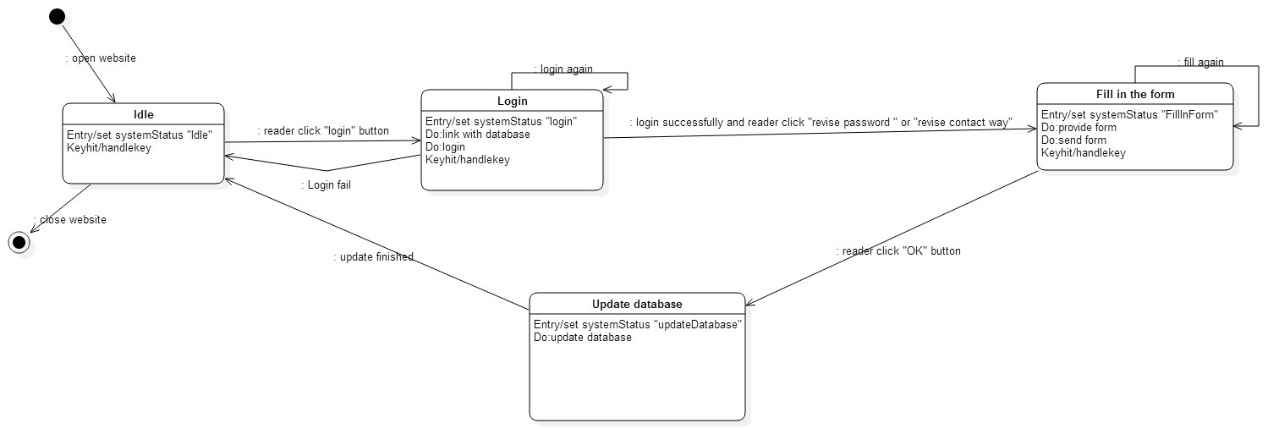
**↑<Reader Return Books On Reception Desk> State Diagram**

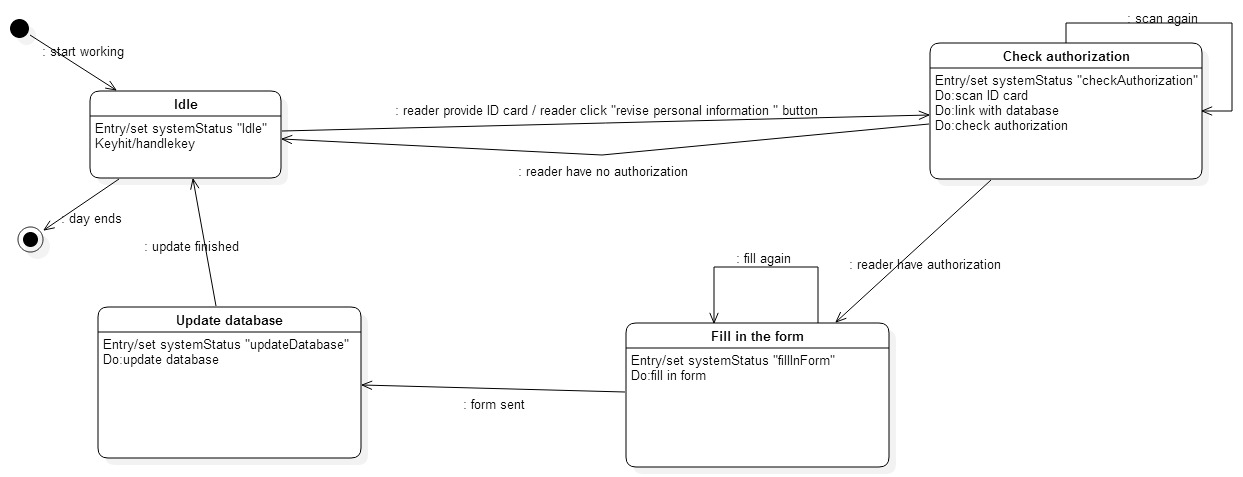
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**↑<Receptionist> State Diagram**

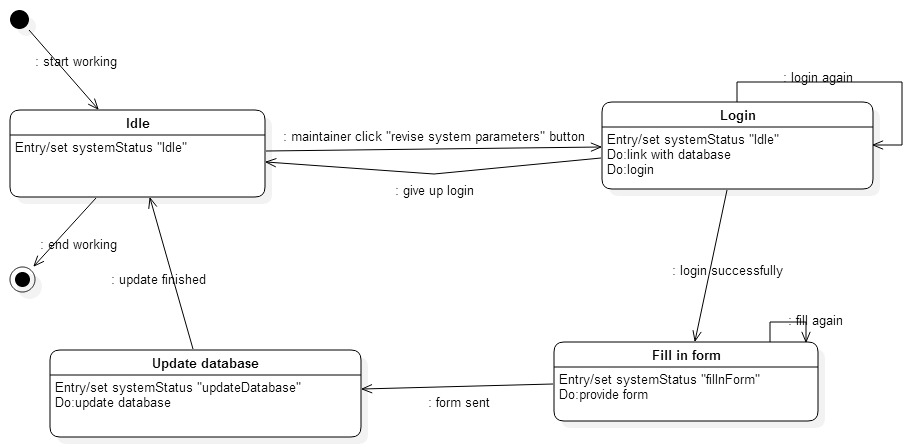
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**↑<Reader Renew Borrowed Books> State Diagram**

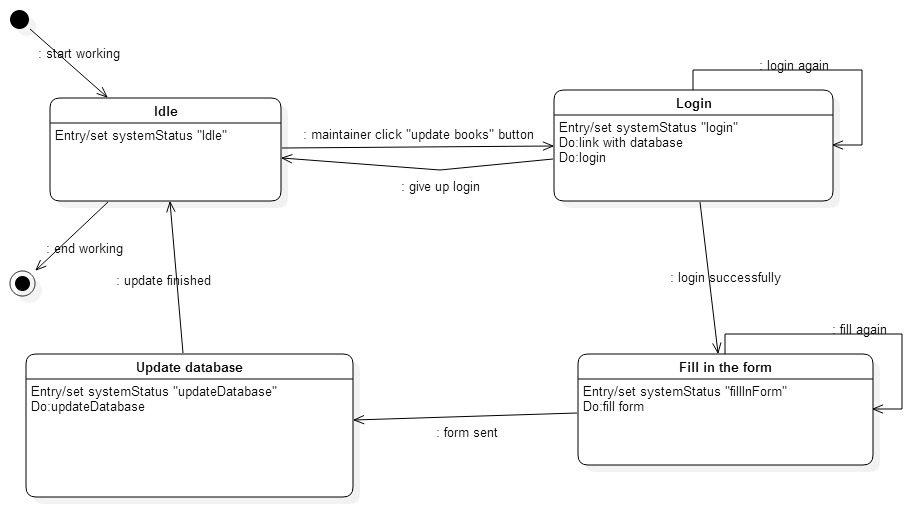
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**↑<Reader Revise Password Or Contact Way On Website> State Diagram **

**↑<Reader Revise Personal Info On Machine Or Reception Desk> State Diagram**

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**↑<Maintainer Revise System Parameters> State Diagram**

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**↑<Maintainer Update Books> State Diagram**