Data Flow Diagram
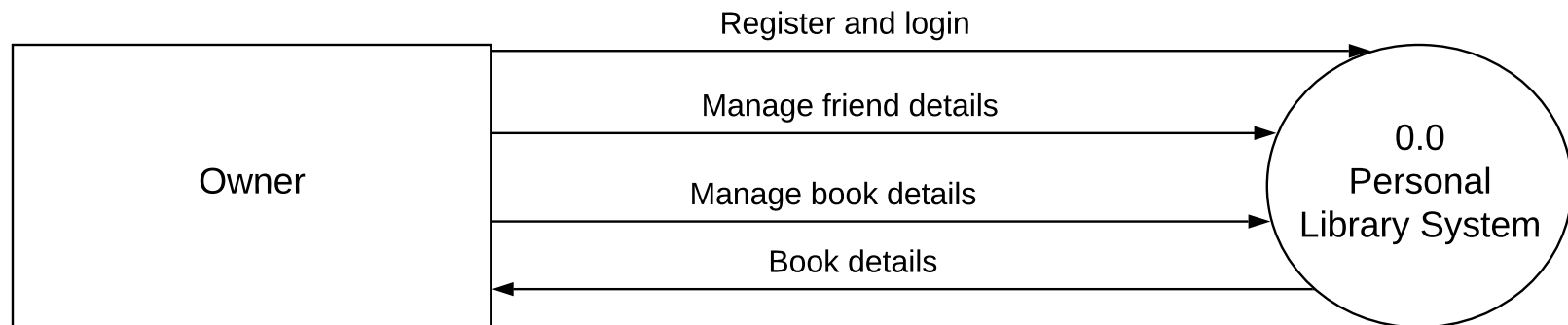
for

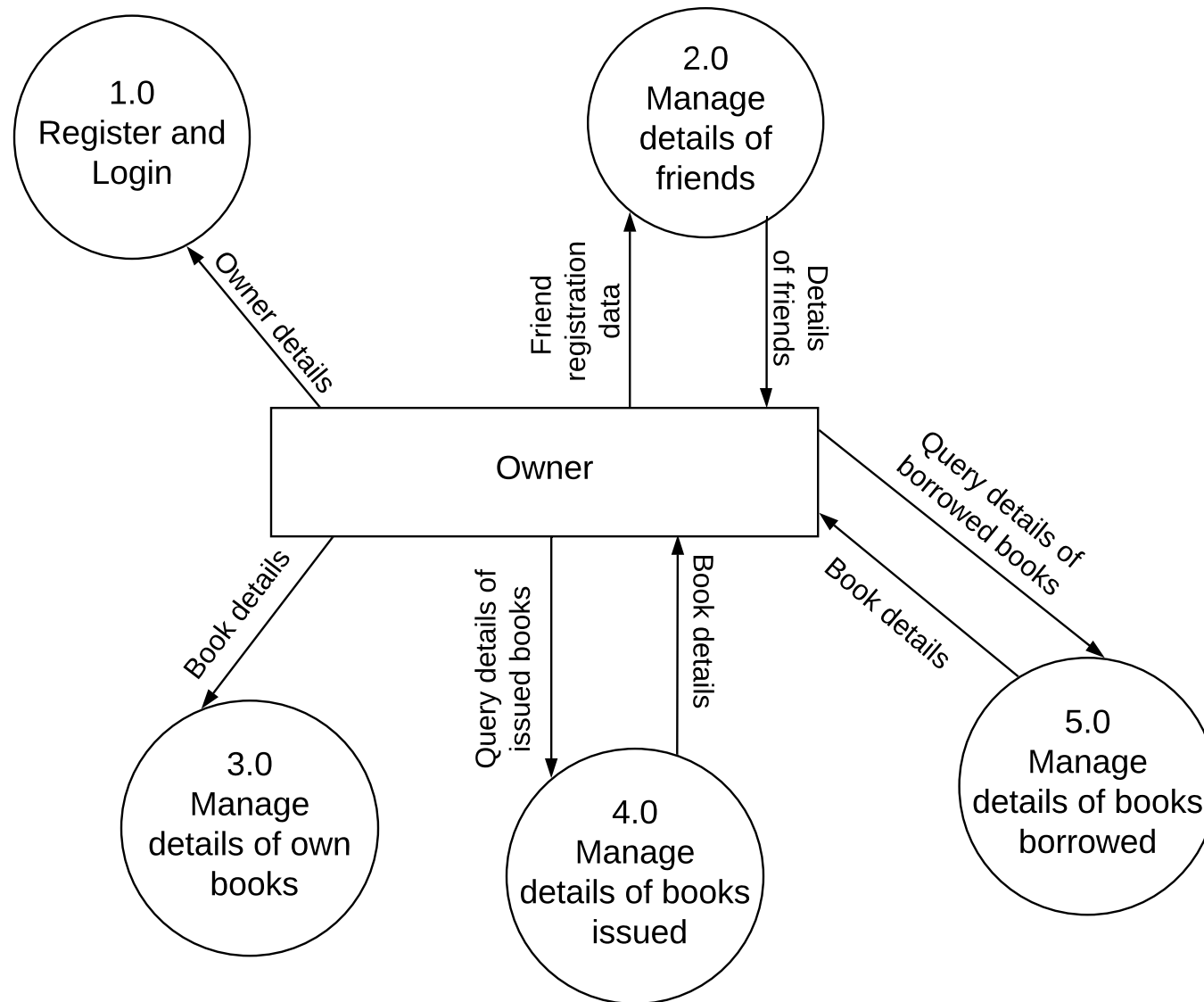# Personal Library System

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16CS30043

LEVEL 0

```
                          Register and login
┌─────────────────┐  ──────────────────────────────►        ╭─────────────╮
│                 │                                         ╱               ╲
│                 │       Manage friend details           │      0.0        │
│                 │  ──────────────────────────────►      │   Personal      │
│     Owner       │                                       │ Library System  │
│                 │       Manage book details             │                 │
│                 │  ──────────────────────────────►      │                 │
│                 │           Book details                 ╲               ╱
└─────────────────┘  ◄──────────────────────────────        ╰─────────────╯
```

LEVEL 1

LEVEL 2

Owner
registration data

→

**1.1
Register**

Store details

→

_____
User details

←
Registration
confirmation

Check validity ↑ | ↓ Validity checked

Login details

→

**1.2
Login**

Login details →

**1.3
Authenticate**

←
Access granted

← Authenticated

4.1 Display issued books

Book details ←

Retreive

4.2 Return book

Friend details →
Book details →

Update

Books' details

5.1 Display list of borrowed books

Book details ←

Retrieve

5.2 Borrow book

Friend details →
Book details →

Store details

Borrowed books' details

Update

5.3 Return book

Friend details →
Book details →