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# **Project Specification - Template**

## **Resource Description**

Define your **four resources** here in terms of a REST API. Provide the name, a short description, and relationships to other resources.

Resource	Description	Relationships
books	A book	One library, multiple bookings, multiple ratings
bookings	A booking	1 book, 1 user
libraries	A library	multiple books
ratings	A user-written rating	1 user, 1 book

### **User Stories**

- | #1 Static page (no backend)
- #2-3 GET endpoints with at least one relationship between two resources
- #4-6 CRUD with GET, POST, PUT, or DELETE on individual or combined resources

### User Story #1 - Static

### **Story:**

As a visitor, I want to see general information about the library system (such as opening hours, locations) so that I know how to use the services.

#### **Affected Resources:**

(none)

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### **Planned Implementation (Frontend Component):**

Static webpage



### **Story:**

As a user, I want to see a list of all available books in a library so that I can decide which one to borrow.

#### **Affected Resources:**

book, library

### Planned Implementation (e.g., list view, detail view):

GET /libraries/{id}/books

Frontend: List view of books for a selected library, including availability status.

### User Story #3 - View book ratings

### Story:

As a user, I want to view the ratings and reviews of a book so that I can choose a highly rated one.

#### **Affected Resources:**

book

### **Planned Implementation:**

GET /books/{id}/ratings

Frontend: Detail view of a book with aggregated ratings and user comments.

### User Story #4 - Manage books

### **Story:**

As a librarian, I want to CREATE, UPDATE and DELETE a book

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#### **Affected Resources:**

book

### **Planned Implementation:**

POST, PUT, DELETE /books

Frontend: Booking form where a logged-in user selects a book and submits a reservation request.

### User Story #5 – Create or Edit a Booking

### **Story:**

As a librarian, I want to create or edit a booking so that I can manage the bookings.

#### **Affected Resources:**

bookings

### **Planned Implementation:**

PUT /bookings/{id} or DELETE /bookings/{id}

Frontend: User's account page with a list of current bookings, including options to edit or cancel.

### User Story #6 - Submit, Edit, or Delete a Rating

#### **Story:**

As a user, I want to submit, edit, or delete a rating for a book so that I can share my opinion and help others.

### **Affected Resources:**

ratings, books, users

### **Planned Implementation:**

POST /ratings, PUT /ratings/{id}, DELETE /ratings/{id}

Frontend: Rating form on the book detail page; user can add a new rating or manage their existing ratings.

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