This project contains basic Rest API for Book Rental system.

**Framework Used: FLASK**

**Language: Python**

**SQL: SQLAlchemy**

As part of this project I created three tables:

1. Book[(Primary Key(id), String(title),String( isbn), String(author)]
2. Cardholder[Primary Key(id),String(lastName),String(firstName) , String(cardNumber)]
3. Rentals [Primary Key(id), Foreign Key(book\_id), Foreign\_Key(cardholder\_id)]

Below API are created in the project:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **METHOD** | **ENDPOINT** | **TABLE** | **Sample JSON** | **DESCRIPTION** |
| GET | http://localhost:5000/ book | Book | NA | Get all books in Table(JSON) |
| GET | http://localhost:5000/ book/<id> | Book | NA | Get details of book by specific id |
| GET | http://localhost:5000/rentedBooks | Rentals | NA | Get details of all the Rented Books |
| POST | http://localhost:5000/cardHolder | cardHolder | {      "firstName":"Anwesha",      "lastName":"Kriti",      "cardNumber":"0011"  } | Create cardholder record in table |
| POST | http://localhost:5000/book | Book | {      "title":"Book3",      "author":"Dude",      "isbn":"10101"  } | Add Book to Table |
| PUT | http://localhost:5000/ book/<id> | Book |  | Update Book details of particular book(id) |
| POST | http://localhost:5000/rental | Rentals | {      "book\_id":1,      "cardHolder\_id":13  } | Rent a book with book id and user\_id |