Part 1: API Endpoint

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| --- | --- | --- | --- | --- |
| Action | HTTP Method | Endpoint | Required Parameters | Expected Output (JSON) |
| Add a book | POST | /books | JSON body with book details | {  "\_id": "B12345",  "title": "Brave New World",  "author": "Aldous Huxley",  "genre": "Dystopian",  "publishedYear": 1932  } |
| View all books | GET | /books | Optional Filters  (genre, author) | [  {  "\_id": "B001",  "title": "1984",  "author": "George Orwell",  "genre": "Dystopian",  "publishedYear": 1949  },  {  "\_id": "B002",  "title": "To Kill a Mockingbird",  "author": "Harper Lee",  "genre": "Fiction",  "publishedYear": 1960  }  ] |
| View a book by ID | GET | /books/{id} | Id (in URL) | {  "\_id": "B001",  "title": "1984",  "author": "George Orwell",  "genre": "Dystopian",  "publishedYear": 1949  } |

Part 2: Data Structure

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| --- | --- | --- | --- |
| Field | Data Type | Required? | Description |
| \_id | String | Yes | Unique identifier for the book |
| title | String | Yes | Title of the book |
| author | String | Yes | Name of the book’s author |
| genre | String | No | Genre or category of the book |
| publishedYear | Number | No | Year the book was published |