|  |  |
| --- | --- |
| **Event** | **Response** |
|  |  |
| User Registration | Validate information -> Store user data -> Return success/failure message |
| User Login | Validate credentials -> Return success/failure message |
| Post Book Request | Validate book info -> Store book data -> Return success/failure message |
| Book Search Request | Query database -> Return list of matching books |
| Transaction Request | Validate request -> Create transaction record -> Return confirmation/failure message |
| Payment Request | Validate payment info -> Process payment -> Update transaction status -> Return success/failure message |
| Send Message | Store message -> Return success/failure message |
| View Message | Query messages -> Return list of messages |
| Submit Review | Validate review -> Store review -> Return success/failure message |
| View Review | Query reviews -> Return list of reviews |

Event Response Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Function** | **User Entity** | **Book Entity** | **Transaction Entity** | **Message Entity** | **Review Entity** |
| User Registration | C |  |  |  |  |
| User Login | R |  |  |  |  |
| Post Book |  | C |  |  |  |
| Search Books |  | R |  |  |  |
| Transaction Request |  |  | C |  |  |
| Confirm Transaction |  |  | U |  |  |
| Process Payment |  |  | U |  |  |
| Send Message |  |  |  | C |  |
| Receive Message |  |  |  | R |  |
| Submit Review |  |  |  |  | C |
| View Review |  |  |  |  | R |

CRUD Matrix