| Requirement | HTTP status(success) | Response(success) | HTTP status(Fail) | Response(Fail) | HTTP Method | Endpoint | Body |
| --- | --- | --- | --- | --- | --- | --- | --- |
| User register | 200 | {  message : "User has been created successfully"  } | 400 | {  message: "Server could not register there are missing data from client"  } | POST | /auth/register | {  firstName:  lastName:  email:  username:  password:  } |
| 500 | {  message: "Server could not register because database connection"  } |
| User login | 200 | {  message: "login successfully",  token  } | 401 | {  message: "password not valid"  } | POST | /auth/login | {  username:  password:  } |
| 404 | {  "message":  "user not found"  } |
| 500 | {  message: "Server could not login because database connection"  } |
| Create book | 200 | {  message : "User has been created successfully"  } | 400 | {  message: "Server could not create book there are missing data from client"  } | POST | /book/create | {  book\_name:  ,auth\_name:  ,published\_year:  ,publication\_time:  } |
| 500 | {  message: "Server could not create book because database connection"  } |
| Update book | 200 | {message : "  User has been update successfully"  } | 400 | {  message: "Server could not update book there are missing data from client"  } | PUT | /book/:bookId | {  book\_name:  ,auth\_name:  ,published\_year:  ,publication\_time:  } |
| 500 | {  message: "Server could not update book because database connection"  } |
| delete book | 200 | {message : "  User has been delete successfully"  } | 400 | {  message: "Server could not delete book there are missing data from client"  } | DELETE | /book/:bookId |  |
| 500 | {  message: "Server could not delete book because database connection"  } |
| Add book to collection | 200 | {  message : "User has been add collection successfully"  } | 400 | {  message: "Server could not add book to collection there are missing data from client"  } | POST | /add\_collection/:username | {  book\_id: } |
| 500 | {  message: "Server could not add book to collection because database connection"  } |
| Call book collection | 200 | {  collection:[]  } | 400 | {  message: "Server could not call book collection there are missing data from client"  } | GET | /collection/:username |  |
| 500 | {  message: "Server could not call book collection because database connection"  } |