

**Ink Review**

**Documentation**

Ink Review is a platform for reviewing books.

The user can:

* View the book list and the book details;
* Review books;
* View his reviews and update them;
* View and update his profile.

The Client, made with flutter, interfaces with the Web Service made with php doing http requests.

The MySQL DataBase resources (tables) are: Libro, Recensione, Users.

The possible operation defined for this resources are:   
GET, POST, PUT, PATCH, DELETE.

**Table of operations defined on resources:**

| **Resource** | **GET** | **POST** | **PUT** | **PATCH** | **DELETE** |
| --- | --- | --- | --- | --- | --- |
| Libro | **X** |  |  |  |  |
| Recensione | **X** | **X** | **X** | **X** | **X** |
| Users | **X** | **X** |  | **X** | **X** |

**Operation List:  
  
Get Method**

**Operation: list\_books  
Resource:** libro  
**Description:** Returns the full list of books in the database.  
**Authentication:** Required (token)  
**Response:  
 200 OK** – List of all books.  
 **401 Unauthorized** – Missing or invalid token.

**Operation: get\_book\_details  
Resource:** libro  
**Description:** Returns detailed information about a specific book.  
**Authentication:** Required (token)  
**Request Parameters:** **id\_libro**: Id of the book.  
**Response:**  **200 OK** – Book details.  
 **400 Bad Request** – Missing id\_libro parameter.  
 **401 Unauthorized** – Missing or invalid token.  
 **404 Not Found** – Book not found.

**Operation: list\_user\_reviews  
Resource:** recensione  
**Description:** Returns all reviews submitted by the authenticated user.  
**Authentication:** Required (token)   
**Response:  
 200 OK** – List of user’s reviews.  
 **401 Unauthorized** – Missing or invalid token.

**Operation: list\_reviews\_by\_book  
Resource:** recensione  
**Description:** Returns all reviews associated with a specific book.  
**Authentication:** Required (token)  
**Request Parameters:** **id\_libro**: Id of the book.  
**Response:** **200 OK** – List of reviews.  
 **400 Bad Request** – Missing parameter or book not found.  
 **401 Unauthorized** – Missing or invalid token.  
 **404 Not Found** – Book not found.

**Operation: get\_review\_details  
Resource:** recensione  
**Description:** Returns detailed information about a specific review.  
**Authentication:** Required (token)  
**Request Parameters:**  
 **id\_recensione:** Id of the review **Response:  
 200 OK** – Review details.  
 **400 Bad Request** – Missing id\_recensione parameter.  
 **401 Unauthorized** – Missing or invalid token.  
 **404 Not Found** – Review not found.

**Operation: list\_all\_users  
Resource:** users  
**Description:** Returns the full list of registered users.  
**Authentication:** Required (token)  
**Response:** **200 OK** – List of users.  
 **401 Unauthorized** – Missing or invalid token.

**Operation: get\_user\_details  
Resource:** users  
**Description:** Returns detailed information about the authenticated user.  
**Authentication:** Required (token)  
**Response:  
 200 OK** – User details.  
 **401 Unauthorized** – Missing or invalid token.  
 **404 Not Found** – User not found.

**Operation: validate\_token  
Resource:** token  
**Description:** Validates the provided token.  
**Authentication:** Not required  
**Response:** **200 OK** – Valid token.  
 **400 Bad Request** – Token parameter is missing.  
 **401 Unauthorized** – Invalid token.

**POST Method  
  
Operation: register  
Resource:** users **Description:** Registers a new user. The parameters must be provided in JSON or XML format. **Authentication:** Not required  
**Request Parameters:  
 username:** The username of the user to register.  
 **nome:** The name of the user to register.

**cognome:** The surname of the user to register. **Response:  
 200 OK** – Registration completed successfully, returns the user token. **400 Bad Request** – Missing or invalid parameters.  
 **409 Conflict** – Username already in use.  
 **500 Internal Server Error** – Database insertion error.

**Operation: create\_recensione  
Resource:** recensione **Description:** Creates a new review for a book. Parameters must be provided in JSON or XML format. A user can only submit one review per book.  
**Authentication:** Required (token)  
**Request Parameters:  
 id\_libro:** The id of the book to review.  
 **voto:** The rating of the review.  
 **commento:** The comment of the review.  
**Response:  
 200 OK** – Review successfully created.  
 **400 Bad Request** – Missing or invalid parameters.  
 **401 Unauthorized** – Missing or invalid token.  
 **409 Conflict** – Review already exists for this user and book. **500 Internal Server Error** – Database insertion error.

**PUT Method  
  
Operation: update\_recensione**  
**Resource:** recensioni  
**Description:** Updates an existing review. The user can update the rating and comment of a review that already exists in the system.  
**Authentication:** Required (token)  
**Request Parameters:  
 id\_recensione**: The ID of the review to update.  
 **voto**: The rating to update.  
 **commento**: The comment to update.  
**Response Codes:  
 200 OK** – The review was successfully updated.  
 **400 Bad Request** – Invalid parameters or empty fields.  
 **401 Unauthorized** – User is not authorized (invalid or missing token).  
 **500 Internal Server Error** – Error while updating the review.

**PATCH Method  
  
Operation: update\_recensione\_parzialmente**

**Resource:** recensioni

**Description:** Partially updates an existing review. The user can update either the rating, the comment, or both. **Authentication:** Required (token) **Request Parameters:   
 id\_recensione:** The ID of the review to update.

**voto:** The rating to update.

**commento:** The comment to update.

**Response Codes:**

**200 OK** – The review was successfully partially updated.

**400 Bad Request** – Invalid parameters or empty fields.

**401 Unauthorized** – User is not authorized (invalid or missing token).

**500 Internal Server Error** – Error while partially updating the review.

**Operation: update\_user\_details  
Resource:** users **Description:** Partially updates the personal details of an authenticated user via token.  **Authentication:** Required (token) **Request Parameters:  
 nome:** New first name for the user. **cognome:** New last name for the user.  
**Response Codes:  
 200 OK** – The user details were successfully updated.  **400 Bad Request** – Missing or invalid token.  
 **401 Unauthorized** – Missing or invalid token. **500 Internal Server Error** – Error while updating the user.

**Delete Method  
  
Operation: delete\_recensione  
Resource:** recensione **Description:** Delete a review from the system. Users can only delete their own reviews.  
**Authentication:** Required (token)  
**Request Parameters:  
 id\_recensione:** The ID of the review to delete. **Response Codes:  
 200 OK** – The review was successfully deleted.  
 **400 Bad Request** – The review does not exist.  
 **401 Unauthorized** – The user is not authorized (invalid or expired token)**.  
 500 Internal Server Error** – Error while deleting the review.

### **Operation: delete\_user\_account Resource:** users **Description:** Delete a user account. **Authentication:** Required (token) **Response Codes: 200 OK** – The account was successfully deleted. **401 Unauthorized** – The user is not authorized (invalid or expired token). **500 Internal Server Error** – Error while deleting the account.