# API Documentation

**Unprotected APIs**

1. **Login**
   * Endpoint: **/login**
   * Method: POST
   * Description: Endpoint to authenticate the user and generate an authorization token.
   * Payload: JSON format
   * Example Payload:

{

"email": "user@example.com",

"password": "password123"

}

1. **Register**
   * Endpoint: **/register**
   * Method: POST
   * Description: Endpoint to register a new user.
   * Payload: JSON format
   * Example Payload:

{

"username": "newuser",

"email": "newuser@example.com",

"password": "newpassword123"

}

1. **Statistics**
   * Endpoint: **/statistics**
   * Method: POST
   * Description: Endpoint to fetch statistics data like total users, total subscriptions, total successful subscriptions, and total failed subscriptions.
   * Authentication: Not required
2. **Logout**
   * Endpoint: **/logout**
   * Method: POST
   * Description: Endpoint to logout the currently authenticated user.
   * Authentication: Required

**Protected APIs**

1. **Subscribe**
   * Endpoint: **/subscribe**
   * Method: POST
   * Description: Endpoint to subscribe the authenticated user to a service.
   * Payload: JSON format
   * Example Payload:

{

"userId":"19",

"serviceId":"64c67ee2042f4a5a730f6efb"

}

* + Authentication: Required

1. **Unsubscribe**
   * Endpoint: **/unsubscribe**
   * Method: POST
   * Description: Endpoint to unsubscribe the authenticated user from a service.
   * Payload: JSON format
   * Example Payload:

{

"userId":"19",

"serviceId":"64c67ee2042f4a5a730f6efb"

}

* + Authentication: Required

1. **Services**
   * Endpoint: **/services**
   * Method: POST
   * Description: Endpoint to fetch the list of available services.
   * Authentication: Required
2. **Subscription Callback**
   * Endpoint: **/subscription-callback**
   * Method: POST
   * Description: Endpoint to receive subscription notifications/callbacks from the Partner.
   * Payload: JSON format

{

"event":"",

"subscription\_id":"",

"userId":"",

"serviceId":"",

"status":""

}

1. **Unsubscription Callback**
   * Endpoint: **/unsubscription-callback**
   * Method: POST
   * Description: Endpoint to receive unsubscription notifications/callbacks from the Partner.
   * Payload: JSON format

{

"event":"",

"subscription\_id":"",

"userId":"",

"serviceId":"",

"status":""

}

**How to Run and Test Unprotected APIs on Postman**

1. Open Postman and set the request method to **POST**.
2. Enter the endpoint URL of the unprotected API you want to test (e.g., **/login**, **/register**, **/statistics**, **/logout**).
3. If the API requires a payload, go to the "Body" section and enter the payload in JSON format as shown in the example payloads above.
4. Click the "Send" button to make the API request and view the response.

**How to Run and Test Protected APIs on Postman**

1. First, register a new user by making a **POST** request to the **/register** endpoint with the user details in the payload.
2. After successful registration, use the registered user's credentials to login by making a **POST** request to the **/login** endpoint. Copy the authorization token from the response.
3. For all other protected APIs, add the copied authorization token to the "Authorization" section in the request header using the "Bearer Token" authentication method.
4. If the API requires a payload, go to the "Body" section and enter the payload in JSON format as shown in the example payloads above.
5. Click the "Send" button to make the API request and view the response.