**SkillSwap Skills Management (Auth) API Documentation**

**Base URL**

The base URL for all API requests is **https://ws24-skillswap.onrender.com**

**Endpoints**

All endpoints are prefixed with **/api**

**1. Create Message (Users or Admins)**

**Allows users or administrators to create a new message.**

* **Endpoint: /api/messages/create**
* **Method: POST**
* **Access: Users and Admins**
* **Authorization: Required. JWT token must be included in the HTTP-only cookie.**
* **Body Parameters:**
  + **senderId: String (required) - The ID of the sender.**
  + **receiverId: String (required) - The ID of the receiver.**
  + **sentAt: DateTime (required) - The timestamp when the message was sent.**
  + **text: String (required) - The content of the message.**
* **Success Response:**
  + **Code: 201 Created**
  + **Content Example: { "message": "New message successfully created", "new\_message": "messageId" }**
* **Error Response:**
  + **Code: 400 Bad Request**
  + **Content: { "message": "Message could not be created", "error": "Error details" }**

**2. Retrieve Message (Users or Admins)**

**Allows users or administrators to retrieve a specific message by ID.**

* **Endpoint: /api/messages/:id**
* **Method: GET**
* **Access: Users and Admins**
* **Authorization: Required for protected access.**
* **URL Parameters: id - The ID of the message to retrieve.**
* **Success Response:**
  + **Code: 200 OK**
  + **Content Example: { "\_id": "messageId", "senderId": "userId", "receiverId": "userId", "sentAt": "DateTime", "text": "Message content" }**
* **Error Response:**
  + **Code: 404 Not Found**
  + **Content: { "message": "Message not found" }**

**3. Retrieve All Messages (Users or Admins)**

**Allows users or administrators to retrieve all messages in the database.**

* **Endpoint: /api/messages**
* **Method: GET**
* **Access: Users and Admins**
* **Authorization: Required for protected access.**
* **Success Response:**
  + **Code: 200 OK**
  + **Content Example: [{ "message": "Array of all messages objects" }]**
* **Error Response:**
  + **Code: 500 Internal Server Error**
  + **Content: { "message": "An error occurred", "error": "Error details" }**

**4. Update Message (Admin Only)**

**Allows administrators to update information for a specific message by ID.**

* **Endpoint: /api/messages/update/:id**
* **Method: PUT**
* **Access: Admins only**
* **Authorization: Required. JWT token must be included in the HTTP-only cookie.**
* **URL Parameters: id - The ID of the message to update.**
* **Body Parameters: The fields to update (e.g., text: "Updated message content").**
* **Success Response:**
  + **Code: 200 OK**
  + **Content Example: { "message": "Update successful", "updated\_message": { updated message object } }**
* **Error Response:**
  + **Code: 404 Not Found**
  + **Content: { "message": "Message not found" }**

**5. Delete Message (Admin Only)**

**Allows administrators to delete a specific message by ID.**

* **Endpoint: /api/messages/delete/:id**
* **Method: DELETE**
* **Access: Admins only**
* **Authorization: Required. JWT token must be included in the HTTP-only cookie.**
* **URL Parameters: id - The ID of the message to delete.**
* **Success Response:**
  + **Code: 201 Created**
  + **Content Example: { "message": "Message successfully deleted", "message": { deleted message object } }**
* **Error Response:**
  + **Code: 400 Bad Request**
  + **Content: { "message": "An error occurred", "error": "Error details" }**

**Notes**

* **Secure Connections:** It is highly recommended to use HTTPS for all API interactions to ensure data privacy and security.
* **Authentication:** All protected routes require authentication. A valid JWT token must be presented in the request's HTTP-only cookie.
* **Roles and Permissions:** Access to certain actions is restricted based on the user's role, as indicated in the JWT token.