**API Endpoints (Session management)**

user management and session handling

**1. User Management Endpoints**

**Register User**

* **Endpoint:** /register
* **Method:** POST
* **Description:** Handles user registration by accepting username and password.
* **Responses:**
  + 200 OK: User registered successfully.
  + 400 Bad Request: Invalid input or user already exists.

**User Login**

* **Endpoint:** /login
* **Method:** POST
* **Description:** Authenticates a user and issues a JWT token upon successful login.
* **Responses:**
  + 200 OK: Login successful, returns a token.
  + 401 Unauthorized: Invalid credentials.
  + 403 Forbidden: Too many devices logged in.

**User Logout**

* **Endpoint:** /logout
* **Method:** POST
* **Description:** Ends the current session for the logged-in user.
* **Responses:**
  + 200 OK: Logged out successfully.
  + 400 Bad Request: Session already logged out or expired.
  + 401 Unauthorized: Invalid or missing token.

**Retrieve Active Sessions**

* **Endpoint:** /active\_sessions
* **Method:** GET
* **Description:** Retrieves a list of active user sessions.
* **Responses:**
  + 200 OK: Returns session details.
  + 401 Unauthorized: Token is missing or invalid.
  + 404 Not Found: No active sessions found.

**Cleanup Expired Sessions**

* **Endpoint:** /cleanup
* **Method:** POST
* **Description:** Checks and updates expired user sessions.
* **Responses:**
  + 200 OK: Expired sessions updated.
  + 404 Not Found: No expired sessions found.

**Error Handling**

The API follows structured error handling with proper HTTP status codes:

* **200 OK**: The request was successful, and the expected response is returned.
* **201 Created**: (Not used in current implementation but can be added for resource creation scenarios.)
* **400 Bad Request**: The request is malformed, missing required parameters, or contains invalid data.
* **401 Unauthorized**: Authentication is required and has failed or is missing.
* **403 Forbidden**: The user has exceeded the allowed number of concurrent sessions.
* **404 Not Found**: The requested resource was not found (e.g., no active sessions).