### **API Specification Document**

#### **Overview**

This document provides the specifications for the Pixel Paradise API, which includes endpoints for user authentication (login and signup), retrieving products, and listing users. Each endpoint is described, including the request methods, headers, URL paths, request bodies, and expected responses.

#### **Base URL**

The base URL for the API is: http://localhost:3000

#### **Endpoints**

1. **Login**
   * **Request**
     + **Method**: POST
     + **URL**: /login
     + **Headers**:
       - Content-Type: application/json
     + **Body**: { "email": "adheeshlp@gmail.com", "password": "test" }
   * **Description** This endpoint allows a user to log in by providing their email and password.
2. **Signup**
   * **Request**
     + **Method**: POST
     + **URL**: /signup
     + **Headers**:
       - Content-Type: application/json
     + **Body**: { "email": "adheeshlp@gmail.com", "password": "test", "type": "user", "firstName": "Adheesh", "lastName": "Prabhakaran" }
   * **Description** This endpoint allows a new user to sign up by providing their email, password, user type, first name, and last name.
3. **Products**
   * **Request**
     + **Method**: GET
     + **URL**: /products
     + **Headers**: None
   * **Description** This endpoint retrieves a list of products.
4. **List Users**
   * **Request**
     + **Method**: GET
     + **URL**: /userList
     + **Headers**: None
   * **Description** This endpoint retrieves a list of users.
5. **Create Users**
   * **Request**
     + **Method**: POST
     + **URL**: /users
     + **Headers**:
       - Authorization: Bearer <token>
     + **Body**: { "email": "adheeshlp@gmail.com", "password": "TestPassword", "firstName": "John", "lastName": "Doe", "userType": "user" }
   * **Description** This endpoint allows the creation of a new user by providing the necessary details.
6. **Update Users**
   * **Request**
     + **Method**: PUT
     + **URL**: /users/1
     + **Headers**:
       - Authorization: Bearer <token>
     + **Body**: { "email": "adheeshlp+updated@gmail.com", "password": "Conestoga123", "firstName": "Adheesh", "lastName": "L P Updated", "userType": "admin" }
   * **Description** This endpoint allows updating an existing user's information.
7. **Delete Users**
   * **Request**
     + **Method**: DELETE
     + **URL**: /users/{userId}
     + **Headers**:
       - Authorization: Bearer <token>
   * **Description** This endpoint allows deleting a user by providing their user ID.
8. **Create Products**
   * **Request**
     + **Method**: POST
     + **URL**: /products
     + **Headers**:
       - Authorization: Bearer <token>
   * **Description** This endpoint allows creating a new product.
9. **Update Products**
   * **Request**
     + **Method**: PUT
     + **URL**: /products/{productId}
     + **Headers**:
       - Authorization: Bearer <token>
   * **Description** This endpoint allows updating an existing product's information.
10. **Delete Products**
    * **Request**
      + **Method**: DELETE
      + **URL**: /products/{productId}
      + **Headers**:
        - Authorization: Bearer <token>
    * **Description** This endpoint allows deleting a product by providing its ID.

This document outlines the basic structure and usage of the API endpoints. Additional endpoints may be added in future sprints.