API Documentation

Key API Endpoints

1. Product Endpoints

- GET /api/products - List all furniture products
- GET /api/products/{id} - Get specific product details
- GET /api/products/wood-types - List available wood types
- POST /api/products/custom-request - Submit customization request

2. Authentication Endpoints

- GET /api/auth/certificate/{id} - Verify wood authentication
- POST /api/auth/verify-craftsman - Verify craftsman credentials

3. Order Management

- POST /api/orders - Create new order
- GET /api/orders/{id}/status - Check order status
- GET /api/orders/{id}/tracking - Get shipping updates

Base URL

```
https://api.solangiwoods.com/v1
```

Authentication

All API requests require a Bearer token in the Authorization header:

```
Authorization: Bearer <your_token>
```

Endpoints

Products

1. Get All Products

```
GET /products
```
Query Parameters:

- category (string): Filter by furniture category
- woodType (string): Filter by wood type
- isPureWood (boolean): Filter for 100% wooden items
- priceRange (object): Min and max price range

Response Example:

```
{
  "products": [
    {
      "id": "prod_123",
      "name": "Mahogany Dining Table",
      "category": "dining",
      "woodType": "mahogany",
      "isPureWood": true,
      "price": 1299.99,
      "dimensions": "72x36x30",
      "authenticityCertificate": "AUTH_123",
      "stockQuantity": 5,
      "images": ["url1", "url2"],
      "craftsmanId": "CRAFT_456",
      "warranty": "5 years"
    }
  ],
  "total": 1,
  "page": 1
}
```

2. Create Order

```
POST /orders
```
Request Body:

```json
{
  "customerId": "cust_123",
  "products": [
    {
      "productId": "prod_123",
      "quantity": 1,
      "customizations": {
        "finish": "natural",
        "specifications": "custom size 80x40x30"
      }
    }
  ],
  "shippingAddress": {
    "street": "123 Main St",
    "city": "Springfield",
    "state": "IL",
    "zip": "62701"
  },
  "specialInstructions": "Please handle with care"
}
```

Authentication & Certificates

1. Verify Product Authenticity

```
GET /certificates/{certificateId}
```
Response Example:

```json
{
  "certificateId": "AUTH_123",
  "productId": "prod_123",
  "woodType": "mahogany",
  "originLocation": "Sustainable Forest XYZ",
  "craftsmanDetails": {
    "id": "CRAFT_456",
    "name": "Hasnain Ahmed",
    "expertise": "Master Woodworker",
    "yearsExperience": 15
  },
  "certificationDate": "2025-01-16",
  "verificationStatus": "verified"
}
```

Shipping & Tracking

1. Get Shipping Estimate

```
POST /shipping/estimate
```
Request Body:

```json
{
  "products": ["prod_123"],
  "destination": {
    "zip": "62701",
    "country": "USA"
  }
}
```

2. Track Order

```
GET /orders/{orderId}/tracking
```
Response Example:

```json
{
  "orderId": "order_789",
  "status": "in_transit",
  "estimatedDelivery": "2025-01-20",
  "currentLocation": "Springfield Hub",
  "specialHandling": true,
  "deliveryNotes": "Large item delivery"
}
```

API Consistency Guidelines

Endpoint Naming Convention:

- Use the pattern `/api/[resource]` for each endpoint. For example:
  - `GET /api/products` to retrieve all products.
  - `POST /api/products` to add a new product.

Parameter Naming:

- Use **camelCase** for request body fields: `productId`, `orderId`, `customizations`.
- Use **snake_case** for query parameters: `wood_type`, `price_range`.

Error Responses:

- Always return the appropriate HTTP status codes:
    - `404 Not Found`: If the resource does not exist.
    - `400 Bad Request`: If the request is missing required fields.
    - `500 Internal Server Error`: For server-related issues.

Implementation Plan

Technical Priorities

1. Frontend Development

- Set up Next.js project structure
- Implement responsive design system
- Create reusable components for furniture display

2. Sanity CMS Integration

- Configure Sanity Studio
- Implement content schemas
- Set up API endpoints

3. Third-Party Integrations

- Payment gateway setup
- Shipping tracking integration
- Wood authentication system

4. Security Considerations

- Implement authentication
- Secure API endpoints
- Encrypt sensitive data
- Set up CORS policies

5. Next Steps

- Begin frontend development
- Set up Sanity Studio
- Integrate authentication system
- Implement payment processing
- Create wood verification system