

API Requirements Document

Endpoint	Method	Description	Request Body/Query Params	Expected Response	Category-Specific Example
/api/products	GET	Get all products	? category=string (optional), ? search=string (optional), ? sort=string (optional), ? page=number (optional)	200 OK - List of products with pagination Example: [{id: 1, name: "Wooden Table", price: 199.99, category: "Tables", stock: 20, image: "url"}]	Category: Tables Response: [{id: 101, name: "Round Coffee Table", price: 129.99, category: "Tables", stock: 12, image: "url"}]
/api/products/:id	GET	Get product details	:id - Product ID	200 OK - Product details Example: {id: 1, name: "Wooden Table", price: 199.99, category: "Tables", description: "Solid oak wood", stock: 20, image: "url"}	Category: Chairs Response: {id: 202, name: "Ergonomic Office Chair", price: 249.99, category: "Chairs", description: "Adjustable height", stock: 8}
/api/categories	GET	Get all product categories	None	200 OK - List of categories Example: [{id: 1, name: "Tables"}, {id: 2, name: "Chairs"}, {id: 3, name: "Sofas"}]	N/A
/api/categories/:id	GET	Get category-specific products	id - Category ID ?page=number (optional)	200 OK - List of products under the category Example: [{id: 1, name: "Wooden Table", price: 199.99, category: "Tables"}]	Category: Sofas Response: [{id: 301, name: "Leather Sofa", price: 899.99, category: "Sofas", stock: 5}]
/api/cart	GET	Get user's cart	User's session or token	200 OK - List of items in the cart Example: [{productId: 1, quantity: 2, price:	N/A

				199.99, name: "Wooden Table"]]	
/api/cart	POST	Add item to the cart	{productId: number, quantity: number}	201 Created - Updated cart Example: {message: "Item added to cart", cart: [{productId: 1, quantity: 2, price: 199.99}]}	N/A
/api/cart/:productId	DELETE	Remove item from the cart	:productId - Product ID	200 OK - Updated cart Example: {message: "Item removed", cart: []}	N/A
/api/orders	POST	Create a new order	{cartItems: [{productId: number, quantity: number}], userId: number, paymentDetails : {...}}	201 Created - Order details Example: {orderId: 1001, status: "Processing", total: 499.99, items: [...]}	N/A
/api/orders/:id	GET	Get order details	:id - Order ID	200 OK - Order details Example: {orderId: 1001, status: "Shipped", total: 499.99, items: [...]}	N/A
/api/users/register	POST	Register a new user	{name: string, email: string, password: string}	201 Created - User details Example: {id: 1, name: "John Doe", email: "john@example.com"}	N/A
/api/users/login	POST	Log in an existing user	{email: string, password: string}	200 OK - Authentication token Example: {token: "jwt-token"}	N/A
				200 OK - User details	

/api/users/:id	GET	Get user profile	:id - User ID	Example: {id: 1, name: "John Doe", email: "john@example.com", orders: [...]}	N/A
/api/reviews/:productId	GET	Get reviews for a product	:productId - Product ID	200 OK - List of reviews Example: [{userId: 1, rating: 5, comment: "Great product!"}]	Category: Beds Response: [{userId: 12, rating: 4, comment: "Very comfortable."}]
/api/reviews/:productId	POST	Add a review for a product	{rating: number, comment: string}	201 Created - Review added Example: {message: "Review submitted", review: {rating: 5, comment: "Excellent"}}	N/A
/api/wishlist	GET	Get user's wishlist	User's session or token	200 OK - List of wishlist items Example: [{productId: 1, name: "Wooden Table", price: 199.99}]	N/A
/api/wishlist	POST	Add an item to the wishlist	{productId: number}	201 Created - Wishlist updated Example: {message: "Item added to wishlist", wishlist: [...]}	N/A
/api/wishlist/:productId	DELETE	Remove an item from the wishlist	:productId - Product ID	200 OK - Wishlist updated Example: {message: "Item removed from wishlist", wishlist: []}	N/A