

Актор	Use Case (ВИ)	Ресурс	HTTP-метод	Аутентификация	Данные запроса	Данные ответа	Пример запроса	Пример ответа
Пользователь	UC-1. Просмотреть список акционных товаров	/products/sales	GET	Не нужна	?page=1&limit=20	200 OK, 404 not found	GET /api/products/sales?page=1&limit=20	200 OK <pre>{ "id": 101, "name": "Monoko 2.5%", "price": 1.20, "old_price": 1.50, "discount": 20, "image_url": "https://example.com/images/milk.jpg", "created_at": "2024-11-06T18:11:25.852441" }</pre> 404 Not Found <pre>{ "error": "not_found", "message": "No discounted products found." }</pre>
Пользователь	UC-2. Добавить товар из списка акционных товаров в корзину	/cart/add	POST	Нужна	product_id, quantity	201 Created, 401 Unauthorized	POST /api/cart/add HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "product_id": 101, "quantity": 2 }	201 Created <pre>{ "message": "Product added to cart.", "cart_item_id": 501 }</pre> 400 Bad Request <pre>{ "error": "bad_request", "message": "Invalid product ID or quantity." }</pre> 401 Unauthorized <pre>{ "error": "unauthorized", "message": "Authentication required." }</pre>
Пользователь	UC-3. Оформить заказ после выбора товаров в корзине	/orders	POST	Нужна	cart_id, shipping_address	201 Created, 401 Unauthorized	POST /api/orders HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "cart_id": 1, "shipping_address": "Минск, ул. Ленина, д. 10", "payment_method": "card" }	201 Created <pre>{ "order_id": 987, "status": "pending", "total_price": 34.50 }</pre> 400 Bad Request <pre>{ "error": "bad_request", "message": "Cart is empty or address is invalid." }</pre> 401 Unauthorized <pre>{ "error": "unauthorized", "message": "Authentication required." }</pre>
Пользователь	UC-4. Оставить отзыв на ранее приобретённый товар	/reviews	POST	Нужна	product_id, rating, text	201 Created, 401 Unauthorized	POST /api/reviews HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "product_id": 101, "rating": 5, "text": "Отличное качество, быстрая доставка!" }	201 Created <pre>{ "review_id": 321, "message": "Review submitted successfully.", "status": "pending_moderation" }</pre> 400 Bad Request <pre>{ "error": "bad_request", "message": "Missing or invalid fields." }</pre> 401 Unauthorized <pre>{ "error": "unauthorized", "message": "Authentication required." }</pre>
Администратор	UC-5. Добавить новый товара в каталог интернет-магазина	/products	POST	Нужна	product_name, price, description, category_id, stock, image_url	201 Created, 401 Unauthorized	POST /api/products HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "name": "Йогурт клубничный", "description": "Натуральный йогурт с кусочками клубники", "price": 1.49, "category_id": 3, "stock": 50, "image_url": "https://example.com/images/yogurt.jpg" }	201 Created <pre>{ "product_id": 1234, "message": "Product successfully created." }</pre> 400 Bad Request <pre>{ "error": "bad_request", "message": "Missing required fields or invalid data." }</pre> 401 Unauthorized <pre>{ "error": "unauthorized", "message": "Only admin users can perform this action." }</pre>

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Администратор	UC-6. Просмотреть пользовательские отзывы для модерации	/reviews/moderation	GET	Нужна	?page, limit, status	200 OK, 401 Unauthorized	GET /api/reviews/moderation?page=1&limit=10 HTTP/1.1 Host: example.com Authorization: Bearer XXX	200 OK { "review_id": 321, "product_id": 101, "user_id": 55, "rating": 4, "text": "В целом нормально, но упаковка была повреждена.", "status": "pending", "created_at": "2024-11-08T12:45:00Z" } 401 Unauthorized { "error": "unauthorized", "message": "Only admin users can view pending reviews." }
Администратор	UC-7. Принять решения об их публикации или отклонении	/reviews/{review_id}/mod	PATCH	Нужна	status	200 OK, 400 Bad Request, 401 Unauthorized, 404 Not Found	PATCH /api/reviews/321/moderate HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "status": "approved" }	200 OK { "message": "Review status updated successfully.", "review_id": 321, "new_status": "approved" } 400 Bad Request { "error": "bad_request", "message": "Invalid status value." } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." } 404 Not Found { "error": "not_found", "message": "Review with ID 321 does not exist." }
Пользователь	UC-8. Просмотреть историю заказов	/orders/history	GET	Нужна	?page, limit	200 OK, 401 Unauthorized	GET /api/orders/history?page=1&limit=5 HTTP/1.1 Host: example.com Authorization: Bearer XXX	200 OK { "order_id": 987, "status": "completed", "total_price": 25.30, "created_at": "2024-11-10T12:00:00Z" } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." }
Пользователь	UC-9. Просмотреть все товары онлайн-магазина	/products	GET	Не нужна	?page, limit, category	200 OK, 404 Not Found	GET /api/products?page=1&limit=10&sort_by=price&order=asc HTTP/1.1 Host: example.com	200 OK { "id": 101, "name": "Хлеб ржаной", "price": 0.89, "image_url": "https://example.com/images/bread.jpg" } 404 Not Found { "error": "not_found", "message": "No products found." }
Пользователь	UC-10. Применить промокод	/discounts/apply	POST	Нужна	code	200 OK, 400 Bad Request, 401 Unauthorized	POST /api/discounts/apply HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "code": "SALE20" }	200 OK { "message": "Promo code applied successfully.", "discount_percent": 20, "new_total": 45.60 } 400 Bad Request { "error": "bad_request", "message": "Invalid or expired promo code." } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." }

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Администратор	UC-11. Просмотреть отчеты по заказам	/reports/orders	GET	Нужна	?date_from, date_to	200 OK, 401 Unauthorized	GET /api/reports/orders?date_from=2024-11-01&date_to=2024-11-30&status=completed HTTP/1.1 Host: example.com Authorization: Bearer XXX	200 OK { "total_orders": 145, "total_revenue": 5432.75, "orders": [{ "order_id": 1001, "user_id": 42, "total": 37.50, "status": "completed", "created_at": "2024-11-10T13:00:00Z" }] }
Пользователь	UC-12. Удалить товар из корзины	/cart/{item_id}	DELETE	Нужна	item_id	200 OK, 401 Unauthorized, 404 Not Found	DELETE /api/cart/501 HTTP/1.1 Host: example.com Authorization: Bearer XXX	200 OK { "message": "Item removed from cart.", "item_id": 501 } 401 Unauthorized { "error": "unauthorized", "message": "Only admin users can access order reports." } 404 Not Found { "error": "not_found", "message": "Cart item with ID 501 not found." }
Пользователь	UC-13. Обновить адрес доставки	/user/delivery-address	PUT	Нужна	street, house, apartment	200 OK, 400 Bad Request, 401 Unauthorized	PUT /api/user/delivery-address HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "street": "ул. Ленина", "house": "10", "apartment": "25", "city": "Минск", "postal_code": "220030", "comment": "Позвонить за 10 минут до прибытия" }	200 OK { "message": "Delivery address updated successfully." } 400 Bad Request { "error": "bad_request", "message": "Invalid address format." } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." }
Пользователь	UC-14. Обновить способ доставки	/orders/{order_id}/delivery	PUT	Нужна	method (courier, pickup)	200 OK, 400 Bad Request, 401 Unauthorized, 404 Not Found	PUT /api/orders/987/delivery-method HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "method": "pickup", "pickup_point_id": 12 }	200 OK { "message": "Delivery method updated successfully.", "order_id": 987, "delivery_method": "pickup" } 400 Bad Request { "error": "bad_request", "message": "Invalid delivery method or missing pickup point." } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." } 404 Not Found { "error": "not_found", "message": "Order with ID 987 not found." }
Пользователь	UC-15. Обновить сохранённые данные дисконтной карты	/user/discount-card	PUT	Нужна	card_number, card_type	200 OK, 400 Bad Request, 401 Unauthorized	PUT /api/user/discount-card HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "card_number": "1234-5678-9012-3456", "card_type": "gold" }	200 OK { "message": "Discount card data updated.", "card_number": "1234-5678-9012-3456", "card_type": "gold" } 400 Bad Request { "error": "bad_request", "message": "Invalid card number format." } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." }

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Пользователь	UC-16. Обновить сохранённый список покупок	/shopping-lists/{list_id}	PUT	Нужна	list_name, list_item	200 OK, 400 Bad Request, 401 Unauthorized, 404 Not Found	<pre>PUT /api/shopping-lists/25 HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "name": "Мои покупки", "items": [{ "product_id": 101, "quantity": 2 }, { "product_id": 102, "quantity": 1 }, { "product_id": 103, "quantity": 3 }] }</pre>	<pre>200 OK { "message": "Shopping list updated successfully.", "list_id": 25 } 400 Bad Request { "error": "bad_request", "message": "Invalid product data or structure." } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." } 404 Not Found { "error": "not_found", "message": "Shopping list not found." }</pre>
Пользователь	UC-17. Обновить способ оплаты по заказу	/orders/{order_id}/payment	PUT	Нужна	payment_method	200 OK, 400 Bad Request, 401 Unauthorized, 404 Not Found	<pre>PUT /api/orders/123/payment-method HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "payment_method": "online" }</pre>	<pre>200 OK { "message": "Payment method updated successfully.", "order_id": 123, "payment_method": "online" } 400 Bad Request { "error": "bad_request", "message": "Invalid payment method." } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." } 404 Not Found { "error": "not_found", "message": "Order with ID 123 not found." }</pre>
Пользователь	UC-18. Обновить количество одного товара в корзине	/cart/{item_id}	PATCH	Нужна	quantity	200 OK, 400 Bad Request, 401 Unauthorized, 404 Not Found	<pre>PATCH /api/cart/501 HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "quantity": 3 }</pre>	<pre>200 OK { "message": "Cart item updated.", "item_id": 501, "quantity": 3 } 400 Bad Request { "error": "bad_request", "message": "Quantity must be at least 1." } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." } 404 Not Found { "error": "not_found", "message": "Cart item not found." }</pre>
Пользователь	UC-19. Обновить комментарий к заказу	/orders/{order_id}/comment	PATCH	Нужна	comment	200 OK, 400 Bad Request, 401 Unauthorized, 404 Not Found	<pre>PATCH /api/orders/987/comment HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "comment": "не звоните, если доставка днём" }</pre>	<pre>200 OK { "message": "Order comment updated.", "order_id": 987, "comment": "Пожалуйста, не звоните, если доставка днём — я на совещании." } 400 Bad Request { "error": "bad_request", "message": "Comment must be a string." } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." } 404 Not Found { "error": "not_found", "message": "Order with ID 987 not found." }</pre>

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Администратор	UC-20. Изменить статус отзыва	/reviews/{review_id}/status	PATCH	Нужна	review_status	200 OK, 400 Bad Request, 401 Unauthorized, 404 Not Found	PATCH /api/reviews/321/status HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "review_status": "approved" }	200 OK { "message": "Review status updated.", "review_id": 321, "review_status": "approved" } 400 Bad Request { "error": "bad_request", "message": "Invalid status value. Must be 'approved' or 'rejected'." } 401 Unauthorized { "error": "unauthorized", "message": "Admin privileges required." } 404 Not Found { "error": "not_found", "message": "Review with ID 321 not found." }
Пользователь	UC-21. Обновить флаг "избранное" у товара	/products/{product_id}/fav	PATCH	Нужна	is_favorite	200 OK, 400 Bad Request, 401 Unauthorized, 404 Not Found	PATCH /api/products/101/favorite HTTP/1.1 Host: example.com Authorization: Bearer XXX Content-Type: application/json { "is_favorite": true }	200 OK { "message": "Favorite status updated.", "product_id": 101, "is_favorite": true } 400 Bad Request { "error": "bad_request", "message": "is_favorite must be a boolean value." } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." } 404 Not Found { "error": "not_found", "message": "Product with ID 101 not found." }
Пользователь	UC-22. Удалить отзыв	/reviews/{review_id}	DELETE	Нужна	review_id	200 OK, 401 Unauthorized, 403 Forbidden, 404 Not Found	DELETE /api/reviews/321 HTTP/1.1 Host: example.com Authorization: Bearer XXX	200 OK { "message": "Review deleted successfully.", "review_id": 321 } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." } 403 Forbidden { "error": "forbidden", "message": "You can delete only your own reviews." } 404 Not Found { "error": "not_found", "message": "Review with ID 321 not found." }
Пользователь	UC-23. Удалить адрес доставки	/user/addresses/{address_id}	DELETE	Нужна	address_id	200 OK, 401 Unauthorized, 403 Forbidden, 404 Not Found	DELETE /api/user/addresses/77 HTTP/1.1 Host: example.com Authorization: Bearer XXX	200 OK { "message": "Address deleted successfully.", "address_id": 77 } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." } 403 Forbidden { "error": "forbidden", "message": "You do not have permission to delete this address." } 404 Not Found { "error": "not_found", "message": "Address with ID 77 not found." }

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Пользователь	UC-24. Удалить сохранённую дисконтную карту	/user/discount-card/{card_id}	DELETE	Нужна	card_id	200 OK, 401 Unauthorized, 403 Forbidden, 404 Not Found	DELETE /api/user/discount-card/42 HTTP/1.1 Host: example.com Authorization: Bearer XXX	200 OK { "message": "Discount card deleted successfully.", "card_id": 42 } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." } 403 Forbidden { "error": "forbidden", "message": "You do not have permission to delete this card." } 404 Not Found { "error": "not_found", "message": "Discount card with ID 42 not found." }
Пользователь	UC-25. Удалить метод оплаты из профиля	/user/payment-methods/{method_id}	DELETE	Нужна	method_id	200 OK, 401 Unauthorized, 403 Forbidden, 404 Not Found	DELETE /api/user/payment-methods/5 HTTP/1.1 Host: example.com Authorization: Bearer XXX	200 OK { "message": "Payment method removed.", "method_id": 5 } 401 Unauthorized { "error": "unauthorized", "message": "Authentication required." } 403 Forbidden { "error": "forbidden", "message": "You are not allowed to delete this payment method." } 404 Not Found { "error": "not_found", "message": "Payment method with ID 5 not found." }