API Endpoints Report for E-Commerce Project

Endpoint	Method	Description	Role Required	Request Body	Response
/api/auth/signup	POST	Register a new user (Buyer)	user, staff, vendor	{"name": "John Doe", "email": "john.doe@example.com", ...}	{"token": "jwt_token_here", ...}
/api/auth/login	POST	Log in with email and password to obtain a JWT	all	{"email": "john.doe@example.com", "password": "password123"}	{"token": "jwt_token_here"}
/api/admin/products	POST	Admin creates a new product	Admin	{"name": "Laptop", "description": "High performance laptop", "category": "Electronics"}	{"product": {...}}
/api/admin/users	GET	Admin retrieves all users	Admin		[{"name": "John Doe", "email": "john.doe@example.com", ...}]
/api/staff/products	POST	Staff adds a new product	Staff	{"name": "Smartphone", "description": "Latest model smartphone", "category": "Electronics"}	{"product": {...}}
/api/vendor/products	POST	Vendor adds a new product	Vendor	{"name": "Washing Machine", "description": "Top load washing machine", "category": "Home"}	{"product": {...}}
/api/vendor/products	GET	Vendor retrieves all products created by them	Vendor		[{"name": "Washing Machine", "description": "Top load washing machine"}]
/api/user/products	GET	User retrieves available products (page, limit, search)	User		[{"name": "Laptop", "description": "High performance laptop"}]

General Information

Authorization:

All endpoints require a valid JWT token in the `Authorization` header.

Role-Based Access:

- Admin: Access all endpoints.

- Staff: Can add products.

- Vendor: Can create and view their own products.

- User (Buyer): Can view products.

Pagination:

Supported in `GET /api/user/products` using `page` and `limit`.

Search:

Supported via `search` query in `GET /api/user/products`.

Response Codes:

- 200 OK: Successful request.

- 201 Created: Resource created successfully.

- 400 Bad Request: Invalid request data.

- 401 Unauthorized: Missing or invalid JWT token.

- 403 Forbidden: Insufficient permissions.

- 404 Not Found: Resource not found.

- 500 Internal Server Error: An unexpected error occurred.