

## Database Tables Overview

Table Name	Module Name	Purpose
Users	Module 1 – User & Role Management	Store user accounts, roles, authentication & profile details
Products	Module 2 – Supplier Module	Store supplier product listings & details
OfferThreads	Module 3 & 4 – Buyer & Negotiation	Store negotiation thread header
OfferMessages	Module 3 & 4 – Buyer & Negotiation	Store each offer/counter-offer message
Orders	Module 4 – Order Management	Store confirmed orders with pricing & parties involved
OrderStatusHistory	Module 4 – Order Tracking	Store timeline/status updates of orders
LogisticsJobs	Module 5 – Logistics	Auto-created job when order confirmed
LogisticsQuotes	Module 5 – Logistics	Quotes submitted by logistics partners
Documents	Module 6 – Billing	Store Invoice + Challan document metadata URLs
RouteSuggestions	Module 7 – Route Suggestion	Store optimized route, ETA, fuel & carbon data

# MODULE 1 – User & Role Management

Endpoint	Method	Used By	Tables Read	Tables Written	Description
/api/auth/register	POST	All	Users	Users (INSERT)	Create new user with role, company info, hashed password
/api/auth/login	POST	All	Users	-	Validate email + password, return JWT
/api/users/me	GET	All	Users	-	Fetch user profile
/api/users/me	PUT	All	Users	Users (UPDATE)	Update profile

# MODULE 2 – Supplier Module

Endpoint	Method	Used By	Tables Read	Tables Written	Description
/api/supplier/products	GET	Supplier	Products	-	List supplier products
/api/supplier/products	POST	Supplier	-	Products (INSERT)	Add new product
/api/supplier/products/{id}	PUT	Supplier	Products	Products (UPDATE)	Update product
/api/supplier/products/{id}	DELETE	Supplier	Products	Products (UPDATE)	Soft delete product
/api/supplier/offers	GET	Supplier	OfferThreads, OfferMessages	-	List negotiation threads
/api/supplier/offers/{threadId}	GET	Supplier	OfferThreads, OfferMessages	-	View negotiation thread

# MODULE 3 – Buyer Module

Endpoint	Method	Used By	Tables Read	Tables Written	Description
/api/products	GET	Buyer	Products	-	Search products
/api/products/{id}	GET	Buyer	Products	-	View product details
/api/buyer/offers	GET	Buyer	OfferThreads, OfferMessages	-	List buyer threads
/api/buyer/offers	POST	Buyer	Products	OfferThreads, OfferMessages	Create initial offer
/api/buyer/offers/{threadId}	GET	Buyer	OfferThreads, OfferMessages	-	View negotiation history
/api/buyer/orders	GET	Buyer	Orders	-	List buyer orders
/api/buyer/orders/{orderId}	GET	Buyer	Orders, LogisticsJobs	-	View order + docs

## MODULE 4 – Negotiation & Order Management

Endpoint	Method	Used By	Tables Read	Tables Written	Description
/api/offer-threads/{id}	GET	Buyer/Supplier	OfferThreads, OfferMessages	-	View negotiation
/api/offer-threads/{id}/messages	GET	Buyer/Supplier	OfferMessages	-	View all messages
/api/offer-threads/{id}/messages	POST	Buyer/Supplier	OfferThreads	OfferMessages (INSERT)	Add counter-offer
/api/offers/{id}/accept	PUT	Buyer/Supplier	OfferThreads	OfferThreads, Orders, LogisticsJobs	Accept offer → Create Order + Job
/api/offers/{id}/reject	PUT	Buyer/Supplier	OfferThreads	OfferThreads (UPDATE)	Reject negotiation
/api/orders/{orderId}	GET	All Roles	Orders	-	View order
/api/orders/{orderId}/status	PUT	Supplier/Logistics	Orders	Orders, OrderStatusHistory	Update order status

## MODULE 5 – Logistics Management

Endpoint	Method	Used By	Tables Read	Tables Written	Description
/api/logistics/jobs/available	GET	Logistics	LogisticsJobs	-	List open jobs
/api/logistics/jobs/assigned	GET	Logistics	LogisticsJobs	-	List assigned jobs
/api/logistics/jobs/{jobId}	GET	All	LogisticsJobs, Orders	-	Job details
/api/logistics/jobs/{jobId}/quotes	GET	Logistics	LogisticsQuotes	-	List quotes
/api/logistics/jobs/{jobId}/quotes	POST	Logistics	LogisticsJobs	LogisticsQuotes (INSERT)	Submit quote
/api/logistics/quotes/{quoteId}/accept	PUT	Buyer	LogisticsQuotes, LogisticsJobs	Orders, LogisticsJobs	Accept quote + update order
/api/logistics/jobs/{jobId}/status	PUT	Logistics	LogisticsJobs, Orders	Orders, OrderStatusHistory	Update delivery status

## MODULE 6 – Billing & Document Generation

Endpoint	Method	Used By	Tables Read	Tables Written	Description
/api/orders/{orderId}/documents	GET	All	Documents	-	List documents
/api/documents/{docId}	GET	All	Documents	-	Get document info
/api/documents/{docId}/download	GET	All	Documents	-	Download PDF
/api/orders/{orderId}/documents/invoice	POST	System	Orders	Documents (INSERT)	Generate invoice
/api/orders/{orderId}/documents/challan	POST	System	Orders	Documents (INSERT)	Generate challan

# MODULE 7 – Route Suggestion

Endpoint	Method	Used By	Tables Read	Tables Written	Description
/api/logistics/jobs/{jobId}/route-suggestions	POST	Logistics	LogisticsJobs	RouteSuggestions (INSERT)	Generate optimized route
/api/logistics/jobs/{jobId}/route-suggestions/latest	GET	All	RouteSuggestions	-	Get latest route