





Feature	Mapped to Components	Status
Log in (Buyers & Merchants)	Auth Controller → User Service → Token Management	Supported
Homepage (Recommendations for Buyers)	Search Controller → Search Engine → Search Database Connector	Supported
Search for Products (Buyers)	Search Controller → Search Engine → Search Database Connector	Supported
Add Product to Cart (Buyers)	Cart Controller → Shopping Cart Storage → Cart Database Connector	Supported
Communicate (Messaging System)	Message Controller → Message Processing Service → User Notification Service → Message Database Connector	Supported
Checkout & Payment (Buyers)	Order Controller → Payment Processing Service → Third-Party Payment Integration → Transaction Database Connector	Supported
View Orders (Buyers & Merchants)	Order Controller → Order Processing Service → Order Database Connector	Supported
View Inventory (Merchants)	Inventory Controller → Inventory Management Service → Inventory Database Connector	Supported
Add New Product (Merchants)	Inventory Controller → Inventory Management Service → Inventory Database Connector	Supported
Update Inventory (Merchants)	Inventory Controller → Inventory Management Service → Order Sync Module → Inventory Database Connector	Supported
View Sales Reports (Merchants)	Order Controller → Analytics Module → Order Database Connector	Supported
System Monitoring & Alerts	Monitoring Controller → Metrics Collector → Log Aggregator → Alerting Service	Supported

Shopping Cart

Order Management
Service (Sales report)

Order service

Monitoring and
Alarms





