Jais’s E-commerce Project Functionality Checklist

1️⃣ User Management

Feature	Status based on schema	Notes
User registration	✅ User collection with required fields	Consider email verification
Login	✅ userEmail & userPassword exist	Use JWT for auth
Logout	⚠️ Not in schema	Needs frontend + backend flow
Forgot password	⚠️ Not implemented	Implement email OTP or token system
Profile management	✅ userName, userEmail, userContact, userAddress, userLocation	✔️ Update functionality needed
Address management (multiple addresses)	⚠️ Only one userAddress field	Consider making a separate Address collection if needed
Role management (admin vs user)	✅ Admin collection exists	✔️ Add role checks in routes

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2️⃣ Product Management

Feature	Status	Notes
Product listing	✅ Product + Variant + VariantSize collections	✔️ Add filtering and pagination
Product detail page	✅ Product + images + variants	✔️ Support multiple images via Image collection
Product categorization	✅ Category & Subcategory exist	✔️ Type, Fit, Brand, Material support

Product filtering	✅ Collections support	Implement backend filter queries
Product search	⚠️ Not implemented	Use text indexes or search by name/category
Admin add/edit/delete products	✅ Product + variant management	✔ Make protected routes for admin/shop

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3️⃣ Shopping Cart

Feature	Status	Notes
Add products to cart	⚠️ No explicit cart collection	Currently using Order with status `inCart` — works as cart
Update quantity	✅ orderItem quantity	✔ Implement proper cart APIs
Remove products	✅ orderItem deletion	✔ Confirm delete or update quantity to 0
Cart summary	✅ Order.totalAmount	✔ Backend calculation needed

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4️⃣ Orders

Feature	Status	Notes
Place order	✅ Order + OrderItem collections	✔ Ensure stock reduction logic
Checkout flow	✅ `paymentPending`, `paymentSuccess` status	✔ Integrate payment gateway like Razorpay
Delivery address	✅ deliveryAddress in Order	✔ Supports per order
Order history / tracking	✅ orderStatus in Order & orderItemStatus in OrderItem	✔ Implement user API & frontend view

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5️⃣ Wishlist

Feature	Status	Notes

Add/remove favorites	✅ WishList collection	✔ Implement frontend actions
View wishlist	✅	✔ API ready

6️⃣Reviews & Ratings

Feature	Status	Notes
Add rating/review	✅ ReviewRating collection	✔ Ensure unique per orderItem
Display ratings	✅	✔ Aggregate ratings for product page

7️⃣Complaints

Feature	Status	Notes
File upload for complaint	✅ complaintAttachments	✔ Handle multiple file types
Complaint status tracking	✅ complaintStatus	✔ Add admin/shop reply workflow

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8️⃣Security

Feature	Status	Notes
Password hashing	⚠️ Not yet implemented	Use bcrypt
JWT auth	⚠️ Not yet implemented	Protect routes
2FA (Google Authenticator)	⚠️ Not yet implemented	Optional advanced security
Prevent back-button login	⚠️ Not yet implemented	Implement client + server checks

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9️⃣Admin / Shop Management

Feature	Status	Notes
Admin CRUD	✅ Admin collection	✔ Protect endpoints

Shop CRUD & verification	✅ Shop collection with shopStatus	✔ Implement approval workflow
Manage products	✅ Product + Variant + VariantSize	✔ Only for verified shops

🔟 Misc / UI & UX

Feature	Status	Notes
Responsive UI	⚠️ Frontend	Ensure mobile-friendly
Navigation (navbar, footer)	⚠️ Frontend	✔ Standard UX
Error & success messages	⚠️ Frontend	✔ Include for all APIs
Loading indicators	⚠️ Frontend	Optional but recommended

Summary

✅ You have **all core collections** for users, products, orders, variants, wishlist, reviews, complaints, and admin/shop management.

⚠️ **Pending / optional tasks before security features:**

1. Cart APIs (if you want separate Cart collection or stick with `inCart` orders)
2. Search & filter APIs
3. Frontend UX polish (loading states, error messages, responsive design)
4. Security setup: password hashing, JWT auth, 2FA
5. Logout & back-button prevention
6. Email OTP / password reset
7. Admin/shop approval workflow (if not fully implemented)