## E-Commerce GST Calculation & Sales Dashboard Project (MERN Stack)

This project involves building a MERN Stack application that fetches real-time order and sales data from e-commerce platforms (Meesho, Amazon, Flipkart) via APIs. The system also includes manual calculation logic based on SAP-like lists for matching uploaded product listings to calculate GST and prepare for GST filing.

Below is the step-by-step development plan.

- 1. Requirements Gathering and Planning:
- Understand the client's expectations: Sales dashboard, GST filing utility, real-time API sync, etc.
- Study the structure of manual SAP lists used for matching and calculations.
- 2. API Integrations:
- Register as a seller/developer on Meesho, Amazon, and Flipkart.
- Fetch API keys or tokens.
- Use Axios or Fetch in backend (Node.js/Express) to fetch real-time data (orders, returns, commissions, etc.).
- 3. Database Design (MongoDB):
- Collections: users, platforms, products, orders, gst calculations, manual sap lists.
- Normalize platform-specific data using common models.
- 4. Frontend Development (React + Tailwind):
- Dashboard for real-time sales/orders.
- Upload interface for manual SAP Excel/CSV files.
- Comparison table: API product vs Manual list.
- 5. GST Calculation Engine:
- Match uploaded manual data with real-time product list.

- Calculate GST based on price, HSN code, tax slabs.
- Show input tax credit, output tax liability, net payable.
- 6. File Upload & Matching Logic:
- Use Multer or similar library to upload and parse Excel/CSV files.
- Implement matching algorithm (name match, SKU, product ID).
- 7. GST Report Generation:
- Generate monthly/quarterly reports in JSON, CSV or PDF.
- Include sales summary, tax summary, invoice-wise breakup.
- 8. Authentication and User Management:
- JWT-based login for admins and team members.
- Role-based access (e.g. upload only vs admin view).
- 9. Deployment:
- Use Vercel/Netlify for frontend and Railway/Render/Heroku for backend.
- MongoDB Atlas for database.
- Use cron jobs for auto API sync (every X minutes/hours).
- 10. Future Scope:
- Auto-GSTR filing integration (via third-party GST APIs).
- Multi-user, multi-company support.