18. Pine Labs

Industry: FinTech (Payments & Point of Sale Solutions)

Problem Statement:

Pine Labs aims to improve its point of sale (POS) system, enabling merchants to easily manage transactions, track sales, and integrate with financial services for customer insights and payments.

Technical Implementation:

- **Backend**: **Node.js** with **Express.js** for developing APIs to handle transactions, merchant accounts, and payment gateway integrations.
- **Frontend**: **React** for building the merchant-facing dashboard where they can view sales, manage payments, and offer discounts to customers.
- **Database**: **MongoDB** to store transaction data, merchant profiles, and sales reports. **Firebase** for real-time updates on transactions and sales metrics.
- **GraphQL**: Use **GraphQL** to query detailed transaction history, customer behavior, and payment methods, enabling flexible and efficient data retrieval.
- **Sales & Ops**: **Node.js** will help handle promotional campaigns, merchant acquisition, and sales analytics.
- **Security**: Implement strong encryption and secure authentication protocols for transaction processing.