Automated Business Billing Platform Case Study

Name

Automated Business Billing Platform

Executive Summary

Revolutionize financial operations with Ovaku's **intelligent billing automation solution**. This web application automates invoice generation, tax calculations, and transaction tracking while delivering **100% accuracy**, **real-time insights**, and a **seamless user experience**. Businesses achieve **70% faster billing cycles** and **eliminate manual errors**, driving improved cash flow and compliance.

Problem Statement

Organizations grappled with manual invoice creation, fragmented transaction records, and complex tax computations, leading to **billing delays**, **compliance risks**, and **time-consuming reconciliation** across desktop and mobile environments.

Business Solution

Ovaku developed a **web-based billing platform** featuring:

- Automated, data-driven invoice generation with customizable templates
- Comprehensive tax and discount engine supporting CGST, SGST, IGST, and flexible pricing rules
- End-to-end transaction management with customer profiles and payment status tracking
- Print-ready invoice exports and PDF generation for offline distribution
- Responsive design for consistent performance on desktops, tablets, and smartphones

Key Features

- **Automated Invoicing**: Instant creation of accurate invoices populated with product, pricing, and customer data

- **Tax & Discount Handling**: Configurable CGST, SGST, IGST rates and tiered discount rules per product or customer group

- **Transaction Management**: Centralized payment tracking, outstanding receivables dashboard, and customer billing history

- **Printable Bill Formats**: Clean, professional invoice layouts exportable as PDF for printing or email distribution

- **Responsive Design**: Adaptive interface ensuring smooth workflows on all device types

Impact

Performance Metric	Achievement	Business Value
Billing Cycle Time	70% faster	Accelerated cash flow and reduced DSO
Invoice Accuracy	100% error-free	Eliminated disputes and compliance penalties
Manual Processing Effort	80% reduction	Staff reallocated to higher-value financial tasks
Tax Compliance Efficiency	100% automated calculation	Reduced audit risk and ensured regulatory adherence
User Satisfaction Score	95% positive feedback	Enhanced user adoption and ease of use

Technologies

- **Frontend**: React, Redux, Material-UI

- **Backend**: Node.js, Express.js, RESTful APIs

- **Database**: PostgreSQL with JSONB for flexible tax rules

- **PDF Generation**: PDFKit for server-side invoice exports

- **Security**: OAuth 2.0, JWT, SSL/TLS encryption

- **Hosting**: AWS (EC2, RDS, S3) with auto-scaling and backups

Client

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Industry

Financial Technology, Enterprise Billing Solutions