# Capstone Project Proposal: AI-Enabled Billing & Finance Integration System

**1. Problem Statement**

* Small & medium businesses often struggle with:
  + Disconnected billing tools.
  + Manual posting into accounting systems (Tally, Zoho).
  + Limited payment automation and reconciliation.
* Result = duplication of effort, errors, and delayed reporting.

**2. Objective :** Build a modern billing solution that integrates real-time invoicing, digital payments, and automated accounting entries into core finance systems (Tally, Zoho).

**3. Solution Design**

**a. Billing Software with Electron(UI Layer)**

* Use **Electron**  to design the billing dashboard.
* Features:
  + Customer master,
  + Item master,
  + Rate Master
  + Invoice creation.
  + Other Features like List Terms and Conditions and Bank Payment details

**b. Database with Supabase (Data Layer)**

* Store all customer, invoice, and payment data in **Supabase** (Postgres with API endpoints).
* Provides **real-time data availability** (“Any time Data”).

**c. QR Code on Invoice (Payment Initiation)**

* Auto-generate a **QR code** for each invoice → embedded payment link.
* Customers can scan & pay via UPI, Cards, or NetBanking.

**d. Payment Collection via Razorpay**

* Integrate Razorpay API for payment gateway.
* Automatic status update once payment is successful.

**e. Accounting System Integration (API/Bridge Layer)**

* **Tally** → Use Tally’s ODBC / Tally Prime API to post **Sales + Receipt Vouchers**.
* **Zoho Books** → Use Zoho’s REST APIs to create invoice entries and record receipts.

**4. Demonstration Flow**

1. Create an Invoice in Electron→ Store in Supabase.
2. Print Invoice with QR Code.
3. Customer scans QR & pays via Razorpay.
4. Payment auto-updates invoice status in Supabase.
5. System pushes entries into:
   * **Tally** (Sales & Receipt vouchers).
   * **Zoho Books** (Invoice & Payment received).
6. User dashboard shows “Any time Data” status.

**5. What we are Demonstrating**

* **Any Time Data** – Centralized Supabase database with real-time sync.
* **API Integration** – Razorpay, Zoho, Tally APIs all connected.
* **Finance Application Integration** – Bridging billing with core accounting software.

**6. Tools & Tech Stack**

* **Frontend:** Lovable.
* **Database:** Supabase (Postgres, API-ready).
* **Payments:** Razorpay API.
* **Accounting:**
  + Tally ODBC / Tally Prime API.
  + Zoho Books API.
* **Utilities:** Python / Node.js middleware for API orchestration, QR Code generator library.

**7. Expected Benefits**

* Eliminates manual data entry into accounting software.
* Faster payment collection and reconciliation.
* Real-time financial visibility for SMEs.
* Demonstrates **practical AI + API integration for finance domain.**