**Developer Briefing Document: Email CRM Transition to Custom Domain Email**

### 🔄 Objective

To transition the current Streamlit-based Email CRM system from a personal Gmail (@gmail.com) sender identity to a custom domain-based email (hello@outreach.chintanthakkar.com). This will ensure improved deliverability, professionalism, and compliance with email sending best practices.

### 📅 Current Context

* **Codebase**: Streamlit app with smtplib for email dispatch.
* **Current Sender Email**: Personal Gmail (e.g., youremail@gmail.com).
* **SMTP Settings**: Gmail’s SMTP server (smtp.gmail.com, port 587).
* **Authentication**: Gmail App Password (text input or local file).

### 🔄 Target Setup

* **New Sender Email**: hello@outreach.chintanthakkar.com
* **Email Hosting**: cPanel email (via webmail interface).
* **Domain/Subdomain**: outreach.chintanthakkar.com to be created via cPanel and used as the logical identity for email operations.

### ✅ Developer Action Plan

#### 1. **Set Up Subdomain and Email**

* Create subdomain outreach.chintanthakkar.com via cPanel.
* Provision mailbox: hello@outreach.chintanthakkar.com under that subdomain.
* Access email via: outreach.chintanthakkar.com/webmail (cPanel auto-setup).

#### 2. **Update SMTP Configuration in Code**

Replace existing Gmail SMTP block:

server = smtplib.SMTP("smtp.gmail.com", 587)  
server.starttls()  
server.login(sender\_email, sender\_password)

With something like:

server = smtplib.SMTP("mail.outreach.chintanthakkar.com", 587)  
server.starttls()  
server.login("hello@outreach.chintanthakkar.com", sender\_password)

* Use **port 587 (TLS)** or 465 (SSL) depending on cPanel’s settings.
* Ensure authentication works using regular password or App Password (if enforced by host).

#### 3. **DNS Configuration for Deliverability**

Update the DNS zone for chintanthakkar.com:

* **SPF Record**: Authorize mail servers
* **DKIM Record**: Enable email signing
* **DMARC Record**: Define policy for spoofing protection

These can typically be added via the “Email Deliverability” tool in cPanel. Contact hosting support if unclear.

#### 4. **Edit Streamlit App Inputs (UI)**

* Set default or hidden values:
  + **Sender Name**: Chintan Thakkar
  + **Sender Email**: hello@outreach.chintanthakkar.com
* Optional: Remove gmail\_passkey.txt logic and replace with field or hardcoded value as appropriate

#### 5. **Preserve Existing Features**

No changes required to:

* Personalized subject/body replacements
* File attachments
* Logging to email\_log.txt
* Excel updates to Last emailed
* Email throttling via time.sleep(1) — retain as-is to respect rate limits

### 🚀 Deployment Notes

* This setup is valid for ~200 to 1000 recipients/week
* Emails are sent 1-by-1 with a 1-second delay, avoiding bulk-send flags
* If the list scales significantly or bounce/spam rates increase, consider integrating a transactional email service (SendGrid, Mailgun, etc.)

### ✉️ Sample SMTP Credentials (Placeholder)

* **SMTP Server**: mail.outreach.chintanthakkar.com
* **Port**: 587
* **Username**: hello@outreach.chintanthakkar.com
* **Password**: [to be provided / stored securely]

Please ensure to test with a small sample of recipients before full rollout.

Reach out to Chintan for credentials or test cases as needed.

**End of Document**