**Project Title:**

**Admin Portal for Dynamic Image Posts with WhatsApp Messaging**  
**Platform**: Laravel Framework (PHP)

**Objective**

To develop a Laravel-based Admin Portal that allows administrators to:

* Upload and manage post-specific dynamic images.
* Automatically generate final branded images by combining a standard image with dynamic content.(Logo, Email, Phone etc.)
* Send those images via WhatsApp to individuals or groups using mobile numbers or group IDs.

**Key Features**

**1. Admin Portal**

* Secure login for admin access.
* Dashboard to manage all posts.
* Upload dynamic images and recipient info.
* Preview final generated image before sending.
* Manual send or auto-send via WhatsApp.

**2. Dynamic Image Generation**

* Uses a static **standard image** (e.g., company header or banner).
* Merges it with each **dynamic post image** using Laravel's intervention/image package.
* Stores final output in /public/images/posts/.

**3. WhatsApp Integration**

* Sends image posts to:
  + Personal mobile numbers (e.g., +919876543210)
  + WhatsApp groups via Group ID
* WhatsApp API Options:
  + **Free (Dev)**: VenomBot / Baileys (requires WhatsApp Web login)
  + **Production-ready (Paid)**: Twilio API or UltraMsg
* Supports sending caption along with the image.
* Logs all sent messages with status and timestamps.

**Admin Workflow**

1. Admin logs into the portal.
2. Uploads a **dynamic image** and inputs the **WhatsApp target**.
3. Laravel backend:
   * Combines it with the **standard image with details (**email, phone, logo**)**
   * Saves the output to public/images/posts/
4. Admin can **preview** the image.
5. Click "Send via WhatsApp".
6. Image and message sent via selected WhatsApp API.
7. System logs success/failure.

**Deliverables**

* Fully functional Laravel Admin Portal
* Image generation service
* WhatsApp messaging module
* Deployment-ready codebase
* Setup documentation and usage guide
* Optional post-launch support or training

**Considerations**

* WhatsApp integration requires verified API providers (e.g., Twilio) for reliable production use.
* Free libraries like VenomBot/Baileys need a system running WhatsApp Web in the background.
* Country code must be used in all mobile numbers.
* Proper timing (e.g., rate limiting) should be observed to avoid WhatsApp restrictions.