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TASK: Upgrade pdfFlyerBuilder.ts to create stunning, professional flyers

The current implementation is functional but looks like a basic template. I need it to look like a \$200/hour graphic designer created it.

CRITICAL REQUIREMENTS:

1. CONTACT INFO MUST BE COMPLETE:

```
interface ContactInfo {
  firstName: string;
  lastName: string;
  fullName: string; // `${firstName} ${lastName}`
  phone: string;     // Format as (XXX) XXX-XXXX
  email: string;
  title?: string;    // e.g., "Payment Consultant"
}
```

Pull this from the user's profile in the database. The rep's FULL NAME must appear prominently on every flyer.

2. VISUAL ENHANCEMENTS REQUIRED:

A) **Gradient Backgrounds** - No more flat colors. Create a helper function:

```
function drawGradientRect(doc, x, y, width, height, colorStart, colorEnd, steps =
  // Interpolate colors and draw stepped rectangles to simulate gradient
}
```

B) **Hero Section** (top 25% of page):

- Full-width industry-specific image from AI generation
- Dark gradient overlay from bottom (for text readability)
- Large headline: "PAY \$0 TO PROCESS" (white, bold, 38pt with subtle shadow)
- Subheadline below in light gray



C) **Visual Savings Comparison** (middle section):

- TWO SIDE-BY-SIDE BOXES, not bullet points
- LEFT BOX (red tinted, #FEF2F2 background):
 - Header: "Traditional Processing"
 - Big scary number: "\$1,759" in red
 - Fee breakdown in small text
- RIGHT BOX (green tinted, #ECFDF5 background):
 - "RECOMMENDED" badge in top corner
 - Header: "Dual Pricing Program"
 - Beautiful number: "\$64.95" in green
 - SAVINGS CALLOUT: "YOU SAVE \$1,694.53/month" in highlighted box
- Arrow pointing from left to right box

D) **Benefits Section:**

- Section header with amber underline accent
- 6 benefits in 2-column grid
- Each benefit has a numbered circle icon (indigo background)

E) **Contact Card** (bottom right):

- Looks like an embedded business card
- Subtle drop shadow for depth
- Gradient header bar with logo
- Rep's FULL NAME in 16pt bold
- Title underneath in gray
- Divider line
- Phone with icon:  (XXX) XXX-XXXX
- Email with icon:  email@domain.com
- QR code placeholder in corner

F) Footer:

- Dark background (#1F2937)
- Gradient accent line at top (amber to indigo)
- PCBancard branding left
- Payment logos right (VISA, MC, AMEX, DISCOVER)
- Copyright center

3. BRAND COLORS:

```
const brandColors = {  
  primary: '#4F46E5',      // Indigo - main brand  
  primaryLight: '#EEF2FF', // Light indigo - backgrounds  
  secondary: '#F59E0B',    // Amber - accents  
  secondaryLight: '#FEF3C7',  
  success: '#10B981',      // Green - savings/positive  
  successLight: '#ECFDF5',  
  danger: '#EF4444',       // Red - old fees/negative  
  dangerLight: '#FEF2F2',  
  dark: '#1F2937',         // Dark gray - footer  
  gray: '#6B7280',         // Medium gray - secondary text  
  light: '#F9FAFB'         // Light gray - backgrounds  
};
```

4. TYPOGRAPHY:

- Headlines: Helvetica-Bold, 38pt
- Section headers: Helvetica-Bold, 14pt
- Body: Helvetica, 10-11pt
- Big numbers: Helvetica-Bold, 36-48pt
- Fine print: Helvetica, 8pt

5. LAYOUT DIMENSIONS (letter size: 612 x 792 points):

- Hero section: 0-220 (top 220 points)
- Savings comparison: 230-400
- Benefits section: 410-580
- Contact card: positioned at x=340, overlapping benefits/CTA area

- Footer: 742-792 (bottom 50 points)
- Margins: 30-40 points on sides

FILES TO MODIFY:

1. `pdfFlyerBuilder.ts` - Complete rewrite with all enhancements above
2. `marketingGenerator.ts` - Ensure it passes complete contact info:

```
const contactInfo = {  
  firstName: user.firstName,  
  lastName: user.lastName,  
  fullName: `${user.firstName} ${user.lastName}`,  
  phone: user.phone,  
  email: user.email,  
  title: 'Payment Consultant'  
};
```

3. Wherever the user profile is stored - ensure `firstName`, `lastName`, `phone`, `email` are all captured and accessible

TESTING CHECKLIST:

After implementation, the generated flyer should:

- Have a gradient header, not flat color
- Show industry-appropriate hero image with overlay
- Display side-by-side savings comparison boxes
- Show exact savings amount highlighted
- Include rep's FULL NAME prominently
- Format phone as (XXX) XXX-XXXX
- Show email address
- Have professional footer with payment logos
- Look like it was professionally designed

DO NOT:

- Use flat, single-color backgrounds

- Show just text bullets for the savings comparison
- Omit the rep's name or show "undefined"
- Leave phone unformatted
- Make the contact section look like an afterthought