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File: client/src/components/BannerAd.tsx

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import React, { useEffect, useState } from 'react';
import { isAdFree, AD_CLASSES, AD_UNIT_IDS } from '@/lib/adManager';
import { AdPosition, showBannerAd } from '@/lib/adMobService';
import { useCapacitor } from '@/hooks/use-capacitor';

interface BannerAdProps {
  position?: 'top' | 'bottom';
}

/**
 * Banner Ad Component
 * Displays a banner advertisement that will be integrated with Google AdMob
 *
 * On web: Shows a placeholder banner
 * On Android/iOS: Uses native AdMob banners via the Capacitor AdMob plugin
 */
export default function BannerAd({ position = 'top' }: BannerAdProps) {
  const [showAd, setShowAd] = useState(false);
  const { isCapacitorApp, isInitialized } = useCapacitor();

  useEffect(() => {
    // Check if user has ad-free experience
    const adFree = isAdFree();
    setShowAd(!adFree);

    // If we're on a mobile device and initialized, show the native ad
    if (!adFree && isCapacitorApp && isInitialized) {
      const adPosition = position === 'top' ? AdPosition.TOP : AdPosition.BOTTOM;
      showBannerAd(adPosition).catch(error => {
        console.error('Error showing banner ad:', error);
      });
    }

    // Cleanup function
    return () => {
      // In the future, if we need to hide the banner when component unmounts,
      // we can add that logic here
    };
  }, [position, isCapacitorApp, isInitialized]);

  // Don't show the web placeholder if we're on a native platform or if ads are disabled
  if (!showAd || (isCapacitorApp && isInitialized)) return null;

  // This web placeholder only shows on non-Capacitor platforms (like in development)
  return (
    <div
      className={`w-full bg-mystical-dark/90 border-b border-mystical-purple/30 py-2 px-4 text-center ${
        position === 'top' ? 'mb-4' : 'mt-4'
      } ${AD_CLASSES.BANNER}`}
      data-ad-unit-id={AD_UNIT_IDS.BANNER}
      data-ad-format="banner"
    >
      {/* This is a placeholder for web. In Android/iOS, the actual banner is shown by AdMob */}
      <div className="h-[50px] w-full max-w-[320px] mx-auto bg-mystical-gradient/30 rounded-lg flex items-cent...
        <p className="text-xs text-mystical-lavender">Ad Space - Remove ads with premium</p>
      </div>
    </div>
  );
}
```