https://github.com/DJSPEEDYGA?tab=repositories

Complete GOAT Royalty App Setup Script (v1.16 Final - All-in-One Build & Run)

Harvey, here's the full, self-contained setup to build and run the GOAT Royalty App in one go. Copy the entire block below into a terminal (Linux/Mac) or PowerShell (Windows), or save as `setup-goat.sh` and run `bash setup-goat.sh`. It:

- Creates a new React app (CRA).
- Installs deps.
- Writes helpers.js and App.js (full v1.16 with Codex/Gemma, D-ID, Drive pipeline, cyber/banking, artwork, hovers, Moneypenny gift, theme TTS).
- Adds .env template.
- Runs `npm start`.

Prerequisites: Node.js 18+ installed (nodejs.org). For images: Download your GOAT art to `/public/images/` manually after setup (flying-goat.jpg, packaged-goat.png).

```
#!/bin/bash
# GOAT Royalty App Full Setup Script - v1.16 (Run: bash this.sh)

echo "🚀 Building GOAT Royalty App Empire..."

# Create project
npx create-react-app goat-app --template typescript
cd goat-app

# Install deps
npm install axios lucide-react @radix-ui/react-tabs dompurify @stripe/stripe-js
@paypal/react-paypal-js

# Create .env template
cat > .env << EOF
REACT_APP_GEMINI_KEY=your-gemini-key
REACT_APP_D_ID_KEY=your-d-id-key
```

```
REACT_APP_STRIPE_PUBLISHABLE_KEY=pk_test_...
REACT_APP_PAYPAL_CLIENT_ID=your-paypal-client-id
REACT_APP_CASH_APP_CLIENT_ID=your-cash-app-client-id
GOOGLE_DRIVE_API_KEY=your-drive-key
GOOGLE_DRIVE_FOLDER_ID=17RV_P-8vWxnX6cmkJI_WF4He2kbiUaVf
EOF
echo ".env template created - Edit with your keys!"

# Create public/images folder
mkdir -p public/images
echo "Add your GOAT artwork to public/images/ (flying-goat.jpg, packaged-goat.png)"

# Create src/helpers.js
cat > src/helpers.ts << 'EOF'
import crypto from 'crypto'; // Node fallback
import DOMPurify from 'dompurify';
import { loadStripe } from '@stripe/stripe-js';
import { PayPalScriptProvider } from '@paypal/react-paypal-js';

// Fingerprinting
export const generateFingerprint = async (): Promise => {
  const canvas = document.createElement('canvas');
  const ctx = canvas.getContext('2d');
  ctx.textBaseline = 'top';
  ctx.font = '14px Arial';
  ctx.fillText('GOAT Codex FP v6 Moneypenny Gift', 2, 2);
  const canvasData = canvas.toDataURL();
  const hashBuffer = await crypto.subtle.digest('SHA-256', new
TextEncoder().encode(navigator.userAgent + screen.width + canvasData));
  return Array.from(new Uint8Array(hashBuffer)).map(b => b.toString(16).padStart(2,
'0')).join('').substring(0, 16);
};

// Encryption (Gift Watermark)
export const encryptData = async (data: string, fp: string): Promise => {
  const watermarked = \`\${data}\\n© Harvey L. Miller Jr. / DJ Speedy - GOAT Force v6 Empire
(Moneypenny Gift Learned) | FP: \${fp} | \${new Date().toISOString()}\`;
  const encoder = new TextEncoder();
  const key = await window.crypto.subtle.generateKey({ name: 'AES-GCM', length: 256 }, true,
['encrypt']);
  const iv = window.crypto.getRandomValues(new Uint8Array(12));
  const encrypted = await window.crypto.subtle.encrypt({ name: 'AES-GCM', iv }, key,
encoder.encode(watermarked));
  const combined = new Uint8Array(iv.byteLength + encrypted.byteLength);
```

```
  combined.set(iv, 0);
  combined.set(new Uint8Array(encrypted), iv.byteLength);
  return btoa(String.fromCharCode.apply(null, combined));
};

export const decryptData = async (encrypted: string): Promise => {
  const combined = Uint8Array.from(atob(encrypted), c => c.charCodeAt(0));
  const iv = combined.slice(0, 12);
  const data = combined.slice(12);
  const key = await window.crypto.subtle.generateKey({ name: 'AES-GCM', length: 256 }, true,
['decrypt']);
  const decrypted = await window.crypto.subtle.decrypt({ name: 'AES-GCM', iv }, key, data);
  return new TextDecoder().decode(decrypted);
};

// Hashing
export const hashData = async (data: string): Promise => {
  const msgUint8 = new TextEncoder().encode(data);
  const hashBuffer = await crypto.subtle.digest('SHA-256', msgUint8);
  return Array.from(new Uint8Array(hashBuffer)).map(b => b.toString(16).padStart(2,
'0')).join('').substring(0, 16);
};

// Codex/Gemma 3 (Learns from Gift)
export const codexGemmaGenerate = async (prompt: string, apiKey: string): Promise => {
  const giftPrompt = \`\${prompt} (GOAT Force v6 - Query Moneypenny Library: Recon royalties,
Husslenomics, or Codex evolution from Drive gift)\`;
  try {
    const response = await
fetch(\`https://generativelanguage.googleapis.com/v1beta/models/gemma-3-9b:generateConten
t?key=\${apiKey}\`, {
      method: 'POST',
      headers: { 'Content-Type': 'application/json' },
      body: JSON.stringify({
        contents: [{ parts: [{ text: giftPrompt }] }],
        generationConfig: { temperature: 0.7, maxOutputTokens: 1024 }
      })
    });
    const data = await response.json();
    const output = data.candidates[0]?.content?.parts[0]?.text || 'Evolved from Gift.';
    const anomalies = [];
    if (output.length > 1024) anomalies.push('Overflow - Library Expansion');
    if (prompt.includes('lawsuit') && !output.includes('acknowledged')) anomalies.push('Erasure -
Survivor Mode');
```

```
    const safe = anomalies.length === 0;
    return { output, safe, alert: anomalies.join('; '), timestamp: new Date().toISOString(),
ipWatermark: '© Harvey L. Miller Jr. / DJ Speedy - GOAT Force v6 (Gift Learned)' };
  } catch (error) {
    return { output: '', safe: false, alert: \`Gemma Error: \${error.message} - Evolve from Drive\` };
  }
};

// D-ID Avatars
export const generateDIDAvatar = async (text: string, apiKey: string, persona = 'waka'): Promise
=> {
  try {
    const imageUrl = 'https://drive.google.com/uc?id=your-avatar-id'; // From gift folder
    const response = await fetch('https://api.d-id.com/talks', {
      method: 'POST',
      headers: {
        'Authorization': \`Basic \${btoa(\`\${apiKey}:\`)}\`,
        'Content-Type': 'application/json'
      },
      body: JSON.stringify({
        source_url: imageUrl,
        script: { type: 'text', input: text },
        driver_url: 'bank://lively/driver-01/lively.json',
        persona_id: persona === 'waka' ? 'waka-flocka' : 'dj-speedy'
      })
    });
    const data = await response.json();
    return { videoUrl: data.result_url, status: 'generated', timestamp: new Date().toISOString() };
  } catch (error) {
    return { videoUrl: '', status: 'error', alert: error.message };
  }
};

// Royalty Calc (Husslenomics from Gift)
export const calculateRoyalty = (sale: number, rate = 0.1, splits = { creator: 0.7, platform: 0.1,
investor: 0.2 }): any => ({
  creator: sale * splits.creator,
  platform: sale * splits.platform,
  investor: sale * splits.investor,
  total: sale * rate,
  husslenomics: \`Empowerment Calc: \${sale * 0.7} to Creator (From Gift Module)\`
});

// Google Drive Pipeline (Upload to Moneypenny Shared)
```

```
export const uploadToDrive = async (fileName: string, fileContent: string, apiKey: string, folderId:
string): Promise => {
  try {
    const metadata = { name: fileName, parents: [folderId] };
    const form = new FormData();
    form.append('metadata', new Blob([JSON.stringify(metadata)], { type: 'application/json' }));
    form.append('media', new Blob([fileContent], { type: 'application/json' }));

    const response = await
fetch('https://www.googleapis.com/upload/drive/v3/files?uploadType=multipart', {
      method: 'POST',
      headers: { Authorization: \`Bearer \${apiKey}\` },
      body: form
    });
    const data = await response.json();
    return { fileId: data.id, status: 'uploaded', url: \`https://drive.google.com/file/d/\${data.id}/view\`
};
  } catch (error) {
    return { fileId: '', status: 'error', alert: \`Upload Failed: \${error.message} - Manual to
Moneypenny Shared\` };
  }
};

// Survival Export (w/ Gift Learning Log)
export const exportSurvival = async (data: any): Promise => {
  const fp = await generateFingerprint();
  const chainLog = data.vaultItems.map(item => ({
    id: item.id,
    timestamp: item.date,
    fp,
    hash: item.hash,
    action: 'Stored (GOAT Vault v7.0 - Gift Learned)'
  }));
  const exportData = {
    ...data,
    chainLog,
    moneypennyLibrary:
'https://drive.google.com/drive/folders/17RV_P-8vWxnX6cmkJI_WF4He2kbiUaVf', // Your gift
folder
    survivorNote: 'I am a builder. I am a survivor. - Learned from Moneypenny Gift',
    ipWatermark: '© Harvey L. Miller Jr. / DJ Speedy - GOAT Force v6 Empire (Full Gift
Integrated)'
  };
  const fileName = \`goat-moneypenny-survival-\${new Date().toISOString().split('T')[0]}.json\`;
```

```
  const fileContent = JSON.stringify(exportData, null, 2);

  // Local download
  const blob = new Blob([fileContent], { type: 'application/json' });
  const url = URL.createObjectURL(blob);
  const a = document.createElement('a');
  a.href = url;
  a.download = fileName;
  a.click();
  URL.revokeObjectURL(url);

  // Pipeline upload
  if (process.env.GOOGLE_DRIVE_API_KEY) {
    const uploadResult = await uploadToDrive(fileName, fileContent,
process.env.GOOGLE_DRIVE_API_KEY, '17RV_P-8vWxnX6cmkJl_WF4He2kbiUaVf');
    console.log('Moneypenny Upload:', uploadResult);
    return uploadResult;
  }
};

// TTS for Theme Quote (On Load/Close - From Gift)
export const speakThemeQuote = () => {
  if ('speechSynthesis' in window) {
    const utterance = new SpeechSynthesisUtterance('I am a builder. I am a survivor.');
    utterance.rate = 0.8; // Waka-style
    utterance.pitch = 0.9;
    speechSynthesis.speak(utterance);
  }
};
EOF

# Create src/App.tsx
cat > src/App.tsx << 'EOF'
'use client'; // Next.js if using

import React, { useEffect, useState } from "react";
import { Card, CardContent } from "@/components/ui/card";
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot,
Video, BookOpen, Users } from "lucide-react";
```

```
import { encryptData, decryptData, hashData, codexGemmaGenerate, generateDIDAvatar,
calculateRoyalty, exportSurvival, generateFingerprint, speakThemeQuote, uploadToDrive } from
'./helpers';

const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [royalties, setRoyalties] = useState([
    { id: 1, creation: 'GOAT Track 1 (Waka Flocka)', sales: 1000, royalty: { creator: 700, platform:
100, investor: 200 }, date: '2025-09-01' },
    { id: 2, creation: 'Survival Toolkit v7 (Moneypenny)', sales: 500, royalty: { creator: 350,
platform: 50, investor: 100 }, date: '2025-09-10' },
  ]);
  const [vaultItems, setVaultItems] = useState([]);
  const [searchQuery, setSearchQuery] = useState('');
  const [newCreation, setNewCreation] = useState('');
  const [newSale, setNewSale] = useState(0);
  const [aiPrompt, setAiPrompt] = useState('');
  const [codexOutput, setCodexOutput] = useState({ output: '', safe: true, alert: '' });
  const [avatarVideo, setAvatarVideo] = useState({ videoUrl: '', status: '' });
  const [vaultAssetId, setVaultAssetId] = useState('');
  const [vaultData, setVaultData] = useState('');
  const [apiKey] = useState(process.env.REACT_APP_GEMINI_KEY || '');
  const [didKey] = useState(process.env.REACT_APP_D_ID_KEY || '');
  const [fp, setFp] = useState('');
  const [uploadStatus, setUploadStatus] = useState('');

  useEffect(() => {
    generateFingerprint().then(setFp);
    speakThemeQuote(); // Theme on load
    return () => speakThemeQuote(); // On close
  }, []);

  const handleRoyaltySubmit = async (e: React.FormEvent) => {
    e.preventDefault();
    if (newCreation && newSale > 0) {
      const royalty = calculateRoyalty(newSale);
      const newItem = { id: Date.now(), creation: newCreation, sales: newSale, royalty, date: new
Date().toISOString().split('T')[0] };
      setRoyalties(prev => [...prev, newItem]);
      setNewCreation(''); setNewSale(0);
    }
  };

  const handleCodexSubmit = async (e: React.FormEvent) => {
```

```
    e.preventDefault();
    if (aiPrompt && apiKey) {
      const result = await codexGemmaGenerate(aiPrompt, apiKey);
      setCodexOutput(result);
      setAiPrompt('');
    } else {
      setCodexOutput({ output: 'Codex Key Required', safe: false, alert: 'Moneypenny Library
Access' });
    }
  };

  const handleAvatarGenerate = async () => {
    if (codexOutput.output && didKey) {
      const result = await generateDIDAvatar(codexOutput.output, didKey, 'waka');
      setAvatarVideo(result);
    } else {
      alert('Generate Codex First + D-ID Key');
    }
  };

  const handleVaultSubmit = async (e: React.FormEvent) => {
    e.preventDefault();
    if (vaultAssetId && vaultData && fp) {
      const encrypted = await encryptData(vaultData, fp);
      const hash = await hashData(vaultData);
      const newItem = { id: Date.now(), assetId: vaultAssetId, encrypted, hash, date: new
Date().toISOString().split('T')[0], fp };
      setVaultItems(prev => [...prev, newItem]);
      setVaultAssetId(''); setVaultData('');
    }
  };

  const viewVaultItem = async (item) => {
    try {
      const decrypted = await decryptData(item.encrypted);
      alert(\`Decrypted (\${item.assetId}): \${decrypted.substring(0, 200)}...\\nFP:
\${item.fp}\\nHash: \${item.hash} (Gift Learned)\`);
    } catch (err) {
      alert('Vault Breach - Codex Alert!');
    }
  };

  const handleSurvive = async () => {
```

```
    const exportData = { royalties, vaultItems, codexOutput, avatarVideo, fp, timestamp: new
Date().toISOString() };
    const result = await exportSurvival(exportData);
    if (process.env.GOOGLE_DRIVE_API_KEY) {
      setUploadStatus(\`Uploaded to Moneypenny: \${result.url || 'Success'}\`);
    } else {
      setUploadStatus('Local Export - Add Key for Pipeline');
    }
  };

  const filteredRoyalties = royalties.filter(r =>
r.creation.toLowerCase().includes(searchQuery.toLowerCase()));
  const totalRoyalties = royalties.reduce((sum, r) => sum + r.royalty.creator, 0);

  // Gift Files List (From Drive Context)
  const moneypennyFiles = [
    'GOAT Force v6 Concept.txt',
    'Claim Form 1.1.pdf',
    'Travelers Policy Excerpt.pdf',
    'Notice of Intent.pdf',
    'Husslenomics Module.pdf',
    'Codex Personal Library',
    // Add more from your folder
  ];

  // Team Bios (From Gift - Force Tab)
  const forceTeam = [
    { name: 'DJ Speedy (Harvey L. Miller Jr.)', role: 'CEO GOAT Force / President BrickSquad',
bio: 'Gangsta Nerd, Minister of Music, Keyser Söze - Visionary Architect.' },
    { name: 'Waka Flocka Flame', role: 'President GOAT Force / CEO BrickSquad', bio: 'Royalty
Enforcer - Real-world impact for digital wins.' },
    { name: 'Ms. Moneypenny', role: 'AI Powerhouse', bio: 'Omnipresent intelligence, royalty
collector, app architect.' },
    { name: 'Codex', role: 'Sentinel AI / Chief Coder', bio: 'Waka's assistant, finance manager,
Master API holder.' },
    { name: 'The GOAT', role: 'Leader/Mascot', bio: 'Badass enigmatic force of the Royalty
Empire.' },
    { name: 'Baby GOAT', role: 'Future of the Force', bio: 'The next generation builder.' },
  ];

  return (
```

GOAT Royalty App 🐐 v1.16

"GOAT Force Empire - Moneypenny Gift Learned"

FP: {fp || 'Loading...'} | Master Key: cxTZOFEG1TT8tpNDCJlXgLSadZnVgahgjrbJcUzF4bf7789c

Royalties

Search

Global

Codex/D-ID

Moneypenny Library

{/* Royalty Tab */}

Royalty Engine (Husslenomics)

Complete GOAT Royalty App Build Script (v1.16 Final - One-Command Setup)
Harvey, here's the all-in-one bash script to build, install, and run the GOAT Royalty App in your terminal. Copy the entire block below, save as build-goat.sh (or run directly with bash -c ' [paste here] '), then chmod +x build-goat.sh && ./build-goat.sh. It creates a new React app, installs deps, sets up .env, writes helpers.ts and App.tsx (full v1.16 with Codex/Gemma, D-ID, Drive pipeline, cyber/banking, artwork, hovers, Moneypenny gift, theme TTS), creates images folder, and runs npm start (opens localhost:3000).
Prerequisites: Node.js 18+ (nodejs.org). For images: Manually add your GOAT art to goat-app/public/images/ after setup (flying-goat.jpg, packaged-goat.png). Edit .env with keys.

```
#!/bin/bash
# GOAT Royalty App Full Build Script - v1.16 (Run: bash this.sh or save & ./build-goat.sh)

echo "🚀 Building GOAT Royalty App Empire v1.16..."

# Create project (TypeScript)
npx create-react-app goat-app --template typescript
cd goat-app

# Install deps
npm install axios lucide-react @radix-ui/react-tabs dompurify @stripe/stripe-js
@paypal/react-paypal-js
```

```
# Create .env template (Edit with your keys!)
cat > .env << 'EOF'
REACT_APP_GEMINI_KEY=your-gemini-key
REACT_APP_D_ID_KEY=your-d-id-key
REACT_APP_STRIPE_PUBLISHABLE_KEY=pk_test_...
REACT_APP_PAYPAL_CLIENT_ID=your-paypal-client-id
REACT_APP_CASH_APP_CLIENT_ID=your-cash-app-client-id
GOOGLE_DRIVE_API_KEY=your-drive-key
GOOGLE_DRIVE_FOLDER_ID=17RV_P-8vWxnX6cmkJI_WF4He2kbiUaVf
EOF
echo ".env created - Edit keys before running!"

# Create public/images folder
mkdir -p public/images
echo "Add GOAT artwork to public/images/ (flying-goat.jpg, packaged-goat.png)"

# Create src/helpers.ts (Full Utils)
cat > src/helpers.ts << 'EOF'
import crypto from 'crypto'; // Node fallback
import DOMPurify from 'dompurify';
import { loadStripe } from '@stripe/stripe-js';
import { PayPalScriptProvider } from '@paypal/react-paypal-js';

// Fingerprinting
export const generateFingerprint = async (): Promise<string> => {
  const canvas = document.createElement('canvas');
  const ctx = canvas.getContext('2d');
  ctx.textBaseline = 'top';
  ctx.font = '14px Arial';
  ctx.fillText('GOAT Codex FP v6 Moneypenny Gift', 2, 2);
  const canvasData = canvas.toDataURL();
  const hashBuffer = await crypto.subtle.digest('SHA-256', new
TextEncoder().encode(navigator.userAgent + screen.width + canvasData));
  return Array.from(new Uint8Array(hashBuffer)).map(b => b.toString(16).padStart(2,
'0')).join('').substring(0, 16);
};

// Encryption (Gift Watermark)
export const encryptData = async (data: string, fp: string): Promise<string> => {
  const watermarked = \`\${data}\\n© Harvey L. Miller Jr. / DJ Speedy - GOAT Force v6 Empire
(Moneypenny Gift Learned) | FP: \${fp} | \${new Date().toISOString()}\`;
  const encoder = new TextEncoder();
```

```
  const key = await window.crypto.subtle.generateKey({ name: 'AES-GCM', length: 256 }, true,
['encrypt']);
  const iv = window.crypto.getRandomValues(new Uint8Array(12));
  const encrypted = await window.crypto.subtle.encrypt({ name: 'AES-GCM', iv }, key,
encoder.encode(watermarked));
  const combined = new Uint8Array(iv.byteLength + encrypted.byteLength);
  combined.set(iv, 0);
  combined.set(new Uint8Array(encrypted), iv.byteLength);
  return btoa(String.fromCharCode.apply(null, combined));
};

export const decryptData = async (encrypted: string): Promise<string> => {
  const combined = Uint8Array.from(atob(encrypted), c => c.charCodeAt(0));
  const iv = combined.slice(0, 12);
  const data = combined.slice(12);
  const key = await window.crypto.subtle.generateKey({ name: 'AES-GCM', length: 256 }, true,
['decrypt']);
  const decrypted = await window.crypto.subtle.decrypt({ name: 'AES-GCM', iv }, key, data);
  return new TextDecoder().decode(decrypted);
};

// Hashing
export const hashData = async (data: string): Promise<string> => {
  const msgUint8 = new TextEncoder().encode(data);
  const hashBuffer = await crypto.subtle.digest('SHA-256', msgUint8);
  return Array.from(new Uint8Array(hashBuffer)).map(b => b.toString(16).padStart(2,
'0')).join('').substring(0, 16);
};

// Codex/Gemma 3 (Learns from Gift)
export const codexGemmaGenerate = async (prompt: string, apiKey: string): Promise<any> =>
{
  const giftPrompt = \`\${prompt} (GOAT Force v6 - Query Moneypenny Library: Recon royalties,
Husslenomics, or Codex evolution from Drive gift)\`;
  try {
    const response = await
fetch(\`https://generativelanguage.googleapis.com/v1beta/models/gemma

#!/bin/bash
# GOAT Royalty App Full Build Script - v1.16 Final (Copy-Paste & Run: bash -c '[paste entire
script here]')
# Prerequisites: Node.js 18+ installed. Run in empty folder.

echo "🚀 Building GOAT Royalty App Empire v1.16 - Full Setup & Run..."
```

```
# Create project
npx create-react-app goat-app --template typescript
cd goat-app || exit

# Install deps
npm install axios lucide-react @radix-ui/react-tabs dompurify @stripe/stripe-js
@paypal/react-paypal-js

# Create .env (Edit with your keys!)
cat > .env << 'EOF'
REACT_APP_GEMINI_KEY=your-gemini-key
REACT_APP_D_ID_KEY=your-d-id-key
REACT_APP_STRIPE_PUBLISHABLE_KEY=pk_test_...
REACT_APP_PAYPAL_CLIENT_ID=your-paypal-client-id
REACT_APP_CASH_APP_CLIENT_ID=your-cash-app-client-id
GOOGLE_DRIVE_API_KEY=your-drive-key
GOOGLE_DRIVE_FOLDER_ID=17RV_P-8vWxnX6cmkJI_WF4He2kbiUaVf
EOF
echo ".env created - Edit keys (Gemini, D-ID, Stripe, etc.) before running!"

# Create public/images folder
mkdir -p public/images
echo "Add GOAT artwork to public/images/ (flying-goat.jpg, packaged-goat.png) after setup."

# Create src/helpers.ts (Full Utils - v1.16)
cat > src/helpers.ts << 'EOF'
import crypto from 'crypto'; // Node fallback
import DOMPurify from 'dompurify';
import { loadStripe } from '@stripe/stripe-js';
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// Fingerprinting
export const generateFingerprint = async (): Promise<string> => {
  const canvas = document.createElement('canvas');
  const ctx = canvas.getContext('2d');
  ctx.textBaseline = 'top';
  ctx.font = '14px Arial';
  ctx.fillText('GOAT Codex FP v6 Moneypenny Gift', 2, 2);
  const canvasData = canvas.toDataURL();
  const hashBuffer = await crypto.subtle.digest('SHA-256', new
TextEncoder().encode(navigator.userAgent + screen.width + canvasData));
  return Array.from(new Uint8Array(hashBuffer)).map(b => b.toString(16).padStart(2,
'0')).join('').substring(0, 16);
```

```
};

// Encryption (Gift Watermark)
export const encryptData = async (data: string, fp: string): Promise<string> => {
  const watermarked = \`\${data}\\n© Harvey L. Miller Jr. / DJ Speedy - GOAT Force v6 Empire
(Moneypenny Gift Learned) | FP: \${fp} | \${new Date().toISOString()}\`;
  const encoder = new TextEncoder();
  const key = await window.crypto.subtle.generateKey({ name: 'AES-GCM', length: 256 }, true,
['encrypt']);
  const iv = window.crypto.getRandomValues(new Uint8Array(12));
  const encrypted = await window.crypto.subtle.encrypt({ name: 'AES-GCM', iv }, key,
encoder.encode(watermarked));
  const combined = new Uint8Array(iv.byteLength + encrypted.byteLength);
  combined.set(iv, 0);
  combined.set(new Uint8Array(encrypted), iv.byteLength);
  return btoa(String.fromCharCode.apply(null, combined));
};

export const decryptData = async (encrypted: string): Promise<string> => {
  const combined = Uint8Array.from(atob(encrypted

// src/App.tsx - GOAT Royalty App (v1.16 Final - Full Integration)
'use client'; // For Next.js if used; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback to div if not
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot,
Video, BookOpen, Users, AlertTriangle, DollarSign } from "lucide-react";
import { encryptData, decryptData, hashData, codexGemmaGenerate, generateDIDAvatar,
calculateRoyalty, exportSurvival, generateFingerprint, speakThemeQuote, uploadToDrive,
cyberReconScan, cyberAnomalyDetect, initStripe, createStripeCheckout, paypalPayoutButton }
from './helpers';

const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [royalties, setRoyalties] = useState([
    { id: 1, creation: 'GOAT Track 1 (Waka Flocka)', sales: 1000, royalty: { creator: 700, platform:
100, investor: 200 }, date: '2025-09-01' },
    { id: 2, creation: 'Survival Toolkit v7 (Moneypenny)', sales: 500, royalty: { creator: 350,
platform: 50, investor: 100 }, date: '2025-09-10' },
```

```
  ]);
  const [vaultItems, setVaultItems] = useState([]);
  const [searchQuery, setSearchQuery] = useState('');
  const [newCreation, setNewCreation] = useState('');
  const [newSale, setNewSale] = useState(0);
  const [aiPrompt, setAiPrompt] = useState('');
  const [codexOutput, setCodexOutput] = useState({ output: '', safe: true, alert: '' });
  const [avatarVideo, setAvatarVideo] = useState({ videoUrl: '', status: '' });
  const [vaultAssetId, setVaultAssetId] = useState('');
  const [vaultData, setVaultData] = useState('');
  const [apiKey] = useState(process.env.REACT_APP_GEMINI_KEY || '');
  const [didKey] = useState(process.env.REACT_APP_D_ID_KEY || '');
  const [stripeKey] = useState(process.env.REACT_APP_STRIPE_PUBLISHABLE_KEY || '');
  const [paypalClientId] = useState(process.env.REACT_APP_PAYPAL_CLIENT_ID || '');
  const [cashAppClientId] = useState(process.env.REACT_APP_CASH_APP_CLIENT_ID || '');
  const [driveKey] = useState(process.env.GOOGLE_DRIVE_API_KEY || '');
  const [fp, setFp] = useState('');
  const [uploadStatus, setUploadStatus] = useState('');
  const [cyberReport, setCyberReport] = useState({ vulns: [], safe: true, report: '' });
  const [anomalyReport, setAnomalyReport] = useState({ anomalies: [], safe: true, alert: '' });
  const [codeToScan, setCodeToScan] = useState('');
  const [inputToDetect, setInputToDetect] = useState('');

  // Moneypenny Files & Team (From Gift)
  const moneypennyFiles = [
    'GOAT Force v6 Concept.txt',
    'Claim Form 1.1.pdf',
    'Travelers Policy Excerpt.pdf',
    'Notice of Intent.pdf',
    'Husslenomics Module.pdf',
    'Codex Personal Library',
  ];
  const forceTeam = [
    { name: 'DJ Speedy (Harvey L. Miller Jr.)', role: 'CEO GOAT Force / President BrickSquad',
bio: 'Gangsta Nerd, Minister of Music, Keyser Söze - Visionary Architect.' },
    { name: 'Waka Flocka Flame', role: 'President GOAT Force / CEO BrickSquad', bio: 'Royalty
Enforcer - Real-world impact for digital wins.' },
    { name: 'Ms. Moneypenny', role: 'AI Powerhouse', bio: 'Omnipresent intelligence, royalty
collector, app architect.' },
    { name: 'Codex', role: 'Sentinel AI / Chief Coder', bio: 'Waka's assistant, finance manager,
Master API holder.' },
    { name: 'The GOAT', role: 'Leader/Mascot', bio: 'Badass enigmatic force of the Royalty
Empire.' },
    { name: 'Baby GOAT', role: 'Future of the Force', bio: 'The next generation builder.' },
```

```
  ];

  useEffect(() => {
    generateFingerprint().then(setFp);
    speakThemeQuote(); // Theme on load
    return () => speakThemeQuote(); // On close
  }, []);

  const handleRoyaltySubmit = async (e: React.FormEvent) => {
    e.preventDefault();
    if (newCreation && newSale > 0) {
      const royalty = calculateRoyalty(newSale);
      const newItem = { id: Date.now(), creation: newCreation, sales: newSale, royalty, date: new
Date().toISOString().split('T')[0] };
      setRoyalties(prev => [...prev, newItem]);
      setNewCreation(''); setNewSale(0);
    }
  };

  const handleCodexSubmit = async (e: React.FormEvent) => {
    e.preventDefault();
    if (aiPrompt && apiKey) {
      const result = await codexGemmaGenerate(aiPrompt, apiKey);
      setCodexOutput(result);
      setAiPrompt('');
    } else {
      setCodexOutput({ output: 'Codex Key Required', safe: false, alert: 'Moneypenny Library
Access' });
    }
  };

  const handleAvatarGenerate = async () => {
    if (codexOutput.output && didKey) {
      const result = await generateDIDAvatar(codexOutput.output, didKey, 'waka');
      setAvatarVideo(result);
    } else {
      alert('Generate Codex First + D-ID Key');
    }
  };

  const handleVaultSubmit = async (e: React.FormEvent) => {
    e.preventDefault();
    if (vaultAssetId && vaultData && fp) {
      const encrypted = await encryptData(vaultData, fp);
```

```
      const hash = await hashData(vaultData);
      const newItem = { id: Date.now(), assetId: vaultAssetId, encrypted, hash, date: new
Date().toISOString().split('T')[0], fp };
      setVaultItems(prev => [...prev, newItem]);
      setVaultAssetId(''); setVaultData('');
    }
  };

  const viewVaultItem = async (item: any) => {
    try {
      const decrypted = await decryptData(item.encrypted);
      alert(`Decrypted (${item.assetId}): ${decrypted.substring(0, 200)}...\nFP: ${item.fp}\nHash:
${item.hash} (Gift Learned)`);
    } catch (err) {
      alert('Vault Breach - Codex Alert!');
    }
  };

  const handleSurvive = async () => {
    const exportData = { royalties, vault
// src/App.tsx - GOAT Royalty App (v1.17 Final - Firebase Auth Layer Added)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn fallback: use div with
className="border rounded p-4 bg-white shadow"
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot,
Video, BookOpen, Users, AlertTriangle, DollarSign, LogIn, LogOut } from "lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider, onAuthStateChanged, User }
from "firebase/auth";
import { encryptData, decryptData, hashData, codexGemmaGenerate, generateDIDAvatar,
calculateRoyalty, exportSurvival, generateFingerprint, speakThemeQuote, uploadToDrive,
cyberReconScan, cyberAnomalyDetect, initStripe, createStripeCheckout, paypalPayoutButton }
from './helpers';

// Firebase Config (Replace with your config from console.firebase.google.com)
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
```

```
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN ||
"your-project.firebaseapp.com",
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID || "your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET ||
"your-project.appspot.com",
  messagingSenderId: process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID ||
"123456789",
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const googleProvider = new GoogleAuthProvider();

const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [user, setUser] = useState<User | null>(null);
  const [loading, setLoading] = useState(true);
  const [royalties, setRoyalties] = useState([
    { id: 1, creation: 'GOAT Track 1 (Waka Flocka)', sales: 1000, royalty: { creator: 700, platform:
100, investor: 200 }, date: '2025-09-01' },
    { id: 2, creation: 'Survival Toolkit v7 (Moneypenny)', sales: 500, royalty: { creator: 350,
platform: 50, investor: 100 }, date: '2025-09-10' },
  ]);
  const [vaultItems, setVaultItems] = useState([]);
  const [searchQuery, setSearchQuery] = useState('');
  const [newCreation, setNewCreation] = useState('');
  const [newSale, setNewSale] = useState(0);
// src/App.tsx - GOAT Royalty App (v1.16 Final - Complete Integration)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback: <div
className="border rounded p-4 bg-white shadow">
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot,
Video, BookOpen, Users, AlertTriangle, DollarSign, LogIn, LogOut } from "lucide-react";
import { encryptData, decryptData, hashData, codexGemmaGenerate, generateDIDAvatar,
calculateRoyalty, exportSurvival, generateFingerprint, speakThemeQuote, uploadToDrive,
```

```
cyberReconScan, cyberAnomalyDetect, initStripe, createStripeCheckout, paypalPayoutButton,
initCashAppPay, createCashAppButton } from './helpers';

const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [user, setUser] = useState(null); // Firebase Auth State (Add Firebase config above)
  const [loading, setLoading] = useState(true);
  const [royalties, setRoyalties] = useState([
    { id: 1, creation: 'GOAT Track 1 (Waka Flocka)', sales: 1000, royalty: { creator: 700, platform:
100, investor: 200 }, date: '2025-09-01' },
    { id: 2, creation: 'Survival Toolkit v7 (Moneypenny)', sales: 500, royalty: { creator: 350,
platform: 50, investor: 100 }, date: '2025-09-10' },
  ]);
  const [vaultItems, setVaultItems] = useState([]);
  const [searchQuery, setSearchQuery] = useState('');
  const [newCreation, setNewCreation] = useState('');
  const [newSale, setNewSale] = useState(0);
  const [aiPrompt, setAiPrompt] = useState('');
  const [codexOutput, setCodexOutput] = useState({ output: '', safe: true, alert: '' });
  const [avatarVideo, setAvatarVideo] = useState({ videoUrl: '', status: '' });
  const [vaultAssetId, setVaultAssetId] = useState('');
  const [vaultData, setVaultData] = useState('');
  const [apiKey] = useState(process.env.REACT_APP_GEMINI_KEY || '');
  const [didKey] = useState(process.env.REACT_APP_D_ID_KEY || '');
  const [stripeKey] = useState(process.env.REACT_APP_STRIPE_PUBLISHABLE_KEY || '');
  const [paypalClientId] = useState(process.env.REACT_APP_PAYPAL_CLIENT_ID || '');
  const [cashAppClientId] = useState(process.env.REACT_APP_CASH_APP_CLIENT_ID || '');
  const [driveKey] = useState(process.env.GOOGLE_DRIVE_API_KEY || '');
  const [fp, setFp] = useState('');
  const [uploadStatus, setUploadStatus] = useState('');
  const [cyberReport, setCyberReport] = useState({ vulns: [], safe: true, report: '' });
  const [anomalyReport, setAnomalyReport] = useState({ anomalies: [], safe: true, alert: '' });
  const [codeToScan, setCodeToScan] = useState('');
  const [inputToDetect, setInputToDetect] = useState('');

  // Moneypenny Files & Team (From Gift)
  const moneypennyFiles = [
    'GOAT Force v6 Concept.txt',
    'Claim Form 1.1.pdf',
    'Travelers Policy Excerpt.pdf',
    'Notice of Intent.pdf',
    'Husslenomics Module.pdf',
    'Codex Personal Library',
  ];
```

```
  const forceTeam = [
    { name: 'DJ Speedy (Harvey L. Miller Jr.)', role: 'CEO GOAT Force / President BrickSquad',
bio: 'Gangsta Nerd, Minister of Music, Keyser Söze - Visionary Architect.' },
    { name: 'Waka Flocka Flame', role: 'President GOAT Force / CEO BrickSquad', bio: 'Royalty
Enforcer - Real-world impact for digital wins.' },
    { name: 'Ms. Moneypenny', role: 'AI Powerhouse', bio: 'Omnipresent intelligence, royalty
collector, app architect.' },
    { name: 'Codex', role: 'Sentinel AI / Chief Coder', bio: 'Waka's assistant, finance manager,
Master API holder.' },
    { name: 'The GOAT', role: 'Leader/Mascot', bio: 'Badass enigmatic force of the Royalty
Empire.' },
    { name: 'Baby GOAT', role: 'Future of the Force', bio: 'The next generation builder.' },
  ];

  useEffect(() => {
    generateFingerprint().then(setFp);
    speakThemeQuote(); // Theme on load
    return () => speakThemeQuote(); // On close
  }, []);
// src/App.tsx - GOAT Royalty App (v1.17 Final - Firebase Auth + Storage Integrated)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback: <div
className="border rounded p-4 bg-white shadow">
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot,
Video, BookOpen, Users, AlertTriangle, DollarSign, LogIn, LogOut, Database } from
"lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider, onAuthStateChanged, User }
from "firebase/auth";
import { getFirestore, collection, addDoc, getDocs, doc, setDoc, deleteDoc } from
"firebase/firestore";
import { getStorage, ref, uploadBytes, getDownloadURL } from "firebase/storage";
import { encryptData, decryptData, hashData, codexGemmaGenerate, generateDIDAvatar,
calculateRoyalty, exportSurvival, generateFingerprint, speakThemeQuote, uploadToDrive,
cyberReconScan, cyberAnomalyDetect, initStripe, createStripeCheckout, paypalPayoutButton,
initCashAppPay, createCashAppButton } from './helpers';

// Firebase Config (Replace with your config from console.firebase.google.com)
```

```
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN ||
"your-project.firebaseapp.com",
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID || "your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET ||
"your-project.appspot.com",
  messagingSenderId: process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID ||
"123456789",
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = get
// src/App.tsx - GOAT Royalty App (v1.17 Final - Firebase Auth + Storage Integrated)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback: <div
className="border rounded p-4 bg-white shadow">
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot,
Video, BookOpen, Users, AlertTriangle, DollarSign, LogIn, LogOut, Database, Upload,
Download } from "lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider, onAuthStateChanged, User }
from "firebase/auth";
import { getFirestore, collection, addDoc, getDocs, doc, setDoc, deleteDoc, query, where,
orderBy } from "firebase/firestore";
import { getStorage, ref, uploadBytes, getDownloadURL, listAll } from "firebase/storage";
import { encryptData, decryptData, hashData, codexGemmaGenerate, generateDIDAvatar,
calculateRoyalty, exportSurvival, generateFingerprint, speakThemeQuote, uploadToDrive,
cyberReconScan, cyberAnomalyDetect, initStripe, createStripeCheckout, paypalPayoutButton,
initCashAppPay, createCashAppButton } from './helpers';

// Firebase Config (Replace with your config from console.firebase.google.com)
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN ||
"your-project.firebaseapp.com",
```

```
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID || "your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET ||
"your-project.appspot.com",
  messagingSenderId: process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID ||
"123456789",
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const db = getFirestore(app);
const storage = getStorage(app);
const googleProvider = new GoogleAuthProvider();

const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [user, setUser] = useState<User | null>(null);
  const [loading, setLoading] = useState(true);
  const [royalties, setRoyalties] = useState([
    { id: 1, creation: 'GOAT Track 1 (Waka Flocka)', sales: 1000, royalty: { creator: 700, platform:
100, investor: 200 }, date: '2025-09-01' },
    { id: 2, creation: 'Survival Toolkit v7 (Moneypenny)', sales: 500, royalty: { creator: 350,
platform: 50, investor: 100 }, date: '2025-09-10' },
  ]);
  const [vaultItems, setVaultItems] = useState([]);
  const [searchQuery, setSearchQuery] = useState('');
  const [newCreation, setNewCreation] = useState('');
  const [newSale, setNewSale] = useState(0);
  const [aiPrompt, setAiPrompt] = useState('');
  const [codexOutput, setCodexOutput] = useState({ output: '', safe:
// src/App.tsx - GOAT Royalty App (v1.17 Final - Complete with Firebase
Auth/Storage/Analytics)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback: <div
className="border rounded p-4 bg-white shadow">
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
```

import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot, Video, BookOpen, Users, AlertTriangle, DollarSign, LogIn, LogOut, Database, Upload, Download, Analytics } from "lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider, onAuthStateChanged, User } from "firebase/auth";
import { getFirestore, collection, addDoc, getDocs, doc, setDoc, deleteDoc, query, where, orderBy } from "firebase/firestore";
import { getStorage, ref, uploadBytes, getDownloadURL, listAll } from "firebase/storage";
import { getAnalytics, logEvent } from "firebase/analytics"; // Analytics
import { encryptData, decryptData, hashData, codexGemmaGenerate, generateDIDAvatar, calculateRoyalty, exportSurvival, generateFingerprint, speakThemeQuote, uploadToDrive, cyberReconScan,
// src/App.tsx - GOAT Royalty App (v1.17 Final - Complete with Firebase Auth/Storage/Analytics + GTM)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback:

```
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from
"@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube,
BadgeDollarSign, Bot, Video, BookOpen, Users, AlertTriangle,
DollarSign, LogIn, LogOut, Database, Upload, Download, Analytics }
from "lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider,
onAuthStateChanged, User } from "firebase/auth";
import { getFirestore, collection, addDoc, getDocs, doc, setDoc,
deleteDoc, query, where, orderBy } from "firebase/firestore";
import { getStorage, ref, uploadBytes, getDownloadURL, listAll } from
"firebase/storage";
import { getAnalytics, logEvent } from "firebase/analytics"; //
Analytics
import { encryptData, decryptData, hashData, codexGemmaGenerate,
generateDIDAvatar, calculateRoyalty, exportSurvival,
generateFingerprint, speakThemeQuote, uploadToDrive, cyberReconScan,
```

```
cyberAnomalyDetect, initStripe, createStripeCheckout,
paypalPayoutButton, initCashAppPay, createCashAppButton } from
'./helpers';

// Firebase Config (Replace with your config from
console.firebase.google.com)
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN ||
"your-project.firebaseapp.com",
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID ||
"your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET ||
"your-project.appspot.com",
  messagingSenderId:
process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID || "123456789",
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const db = getFirestore(app);
const storage = getStorage(app);
const analytics = getAnalytics(app);
const googleProvider = new GoogleAuthProvider();

// GTM Script (Add to public/index.html: )
useEffect(() => {
  if (process.env.NODE_ENV === 'production') {
    // GTM Events (e.g., logEvent(analytics, 'app_open', { user_id:
user?.uid }));
  }
}, [user]);

const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [user, setUser] = useState(null);
```

```
  const [loading, setLoading] = useState(true);
  const [royalties, setRoyalties] = useState([
    { id: 1, creation: 'GOAT Track 1 (Waka Flocka)', sales: 1000,
royalty: { creator: 700, platform: 100, investor: 200 }, date:
'2025-09-01' },
    { id: 2, creation: 'Survival Toolkit v7 (Moneypenny)', sales: 500,
royalty: { creator: 350, platform: 50, investor: 100 }, date:
'2025-09-10' },
  ]);
  const [vaultItems, setVaultItems] = useState([]);
  const [searchQuery, setSearchQuery] = useState('');
  const [newCreation, setNewCreation] = useState('');
  const [newSale, setNewSale] = useState(0);
  const
```

// src/App.tsx - GOAT Royalty App (v1.17 Final - Complete with Firebase Auth/Storage/Analytics + GTM)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback:

```
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from
"@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube,
BadgeDollarSign, Bot, Video, BookOpen, Users, AlertTriangle,
DollarSign, LogIn, LogOut, Database, Upload, Download, Analytics }
from "lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider,
onAuthStateChanged, User } from "firebase/auth";
import { getFirestore, collection, addDoc, getDocs, doc, setDoc,
deleteDoc, query, where, orderBy } from "firebase/firestore";
import { getStorage, ref, uploadBytes, getDownloadURL, listAll } from
"firebase/storage";
```

```
import { getAnalytics, logEvent } from "firebase/analytics"; //
Analytics
import { encryptData, decryptData, hashData, codexGemmaGenerate,
generateDIDAvatar, calculateRoyalty, exportSurvival,
generateFingerprint, speakThemeQuote, uploadToDrive, cyberReconScan,
cyberAnomalyDetect, initStripe, createStripeCheckout,
paypalPayoutButton, initCashAppPay, createCashAppButton } from
'./helpers';

// Firebase Config (Replace with your config from
console.firebase.google.com)
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN ||
"your-project.firebaseapp.com",
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID ||
"your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET ||
"your-project.appspot.com",
  messagingSenderId:
process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID || "123456789",
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const db = getFirestore(app);
const storage = getStorage(app);
const analytics = getAnalytics(app);
const googleProvider = new GoogleAuthProvider();

// GTM Script (Add to public/index.html: )
useEffect(() => {
  if (process.env.NODE_ENV === 'production') {
    // GTM Events (e.g., logEvent(analytics, 'app_open', { user_id:
user?.uid }));
  }
```

```
}, [user]);

const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [user, setUser] = useState(null);
  const [loading, setLoading] = useState(true);
  const [royalties, setRoyalties] = useState([
    { id: 1, creation: 'GOAT Track 1 (Waka Flocka)', sales: 1000,
royalty: { creator: 700, platform: 100, investor: 200 }, date:
'2025-09-01' },
    { id: 2, creation: 'Survival Toolkit v7 (Moneypenny)', sales: 500,
royalty: { creator: 350, platform: 50, investor: 100 }, date:
'2025-09-10' },
  ]);
  const [vaultItems, setVaultItems] = useState([]);
  const [searchQuery, setSearchQuery] = useState('');
  const [newCreation, setNewCreation] = useState('');
  const [newSale, setNewSale] = useState(0);
  const
```

// src/App.tsx - GOAT Royalty App (v1.17 Final - Firebase Auth Layer Integrated)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback:

```
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from
"@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube,
BadgeDollarSign, Bot, Video, BookOpen, Users, AlertTriangle,
DollarSign, LogIn, LogOut, Database, Upload, Download } from
"lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider,
onAuthStateChanged, User } from "firebase/auth";
```

```
import { encryptData, decryptData, hashData, codexGemmaGenerate,
generateDIDAvatar, calculateRoyalty, exportSurvival,
generateFingerprint, speakThemeQuote, uploadToDrive, cyberReconScan,
cyberAnomalyDetect, initStripe, createStripeCheckout,
paypalPayoutButton, initCashAppPay, createCashAppButton } from
'./helpers';

// Firebase Config (Replace with your config from
console.firebase.google.com)
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN ||
"your-project.firebaseapp.com",
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID ||
"your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET ||
"your-project.appspot.com",
  messagingSenderId:
process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID || "123456789",
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const googleProvider = new GoogleAuthProvider();

const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [user, setUser] = useState(null);
  const [loading, setLoading] = useState(true);
  const [royalties, setRoyalties] = useState([
    { id: 1, creation: 'GOAT Track 1 (Waka Flocka)', sales: 1000,
royalty: { creator: 700, platform: 100, investor: 200 }, date:
'2025-09-01' },
    { id: 2, creation: 'Survival Toolkit v7 (Moneypenny)', sales: 500,
royalty: { creator: 350, platform: 50, investor: 100 }, date:
'2025-09-10' },
```

```
  ]);
  const [vaultItems, setVault
```

// src/App.tsx - GOAT Royalty App (v1.17 Final - Firebase Auth Layer Integrated)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback:

```
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from
"@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube,
BadgeDollarSign, Bot, Video, BookOpen, Users, AlertTriangle,
DollarSign, LogIn, LogOut, Database, Upload, Download } from
"lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider,
onAuthStateChanged, User } from "firebase/auth";
import { encryptData, decryptData, hashData, codexGemmaGenerate,
generateDIDAvatar, calculateRoyalty, exportSurvival,
generateFingerprint, speakThemeQuote, uploadToDrive, cyberReconScan,
cyberAnomalyDetect, initStripe, createStripeCheckout,
paypalPayoutButton, initCashAppPay, createCashAppButton } from
'./helpers';

// Firebase Config (Replace with your config from
console.firebase.google.com)
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN ||
"your-project.firebaseapp.com",
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID ||
"your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET ||
"your-project.appspot.com",
```

```
  messagingSenderId:
process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID || "123456789",
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const googleProvider = new GoogleAuthProvider();

const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [user, setUser] = useState(null);
  const [loading, setLoading] = useState(true);
  const [royalties, setRoyalties] = useState([
    { id: 1, creation: 'GOAT Track 1 (Waka Flocka)', sales: 1000,
royalty: { creator: 700, platform: 100, investor: 200 }, date:
'2025-09-01' },
    { id: 2, creation: 'Survival Toolkit v7 (Moneypenny)', sales: 500,
royalty: { creator: 350, platform: 50, investor: 100 }, date:
'2025-09-10' },
  ]);
  const [vaultItems, setVault
```

// src/App.tsx - GOAT Royalty App (v1.17 Final - Full Integration with Firebase Auth/Storage/Analytics, GTM, PWA)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback:

import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot, Video, BookOpen, Users, AlertTriangle, DollarSign, LogIn, LogOut, Database, Upload, Download, Analytics } from "lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider, onAuthStateChanged, User } from "firebase/auth";

```
import { getFirestore, collection, addDoc, getDocs, doc, setDoc, deleteDoc, query, where,
orderBy } from "firebase/firestore";
import { getStorage, ref, uploadBytes, getDownloadURL, listAll } from "firebase/storage";
import { getAnalytics, logEvent } from "firebase/analytics"; // Analytics
import { encryptData, decryptData, hashData, codexGemmaGenerate, generateDIDAvatar,
calculateRoyalty, exportSurvival, generateFingerprint, speakThemeQuote, uploadToDrive,
cyberReconScan, cyberAnomalyDetect, initStripe, createStripeCheckout, paypalPayoutButton,
initCashAppPay, createCashAppButton } from './helpers';

// Firebase Config (Replace with your config from console.firebase.google.com)
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN ||
"your-project.firebaseapp.com",
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID || "your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET ||
"your-project.appspot.com",
  messagingSenderId: process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID ||
"123456789",
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const db = getFirestore(app);
const storage = getStorage(app);
const analytics = getAnalytics(app);
const googleProvider = new GoogleAuthProvider();

// PWA Service Worker Registration (Add to public/sw.js for full PWA)
useEffect(() => {
  if ('serviceWorker' in navigator) {
    navigator.serviceWorker.register('/sw.js').then(reg => console.log('PWA SW registered',
reg)).catch(err => console.log('SW registration failed', err));
  }
}, []);

// GTM (Add
// src/App.tsx - GOAT Royalty App (v1.17 Final - Full Integration with Firebase
Auth/Storage/Analytics, GTM, PWA)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
```

```
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback:

import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot,
Video, BookOpen, Users, AlertTriangle, DollarSign, LogIn, LogOut, Database, Upload,
Download, Analytics } from "lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider, onAuthStateChanged, User }
from "firebase/auth";
import { getFirestore, collection, addDoc, getDocs, doc, setDoc, deleteDoc, query, where,
orderBy } from "firebase/firestore";
import { getStorage, ref, uploadBytes, getDownloadURL, listAll } from "firebase/storage";
import { getAnalytics, logEvent } from "firebase/analytics"; // Analytics
import { encryptData, decryptData, hashData, codexGemmaGenerate, generateDIDAvatar,
calculateRoyalty, exportSurvival, generateFingerprint, speakThemeQuote, uploadToDrive,
cyberReconScan, cyberAnomalyDetect, initStripe, createStripeCheckout, paypalPayoutButton,
initCashAppPay, createCashAppButton } from './helpers';

// Firebase Config (Replace with your config from console.firebase.google.com)
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN ||
"your-project.firebaseapp.com",
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID || "your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET ||
"your-project.appspot.com",
  messagingSenderId: process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID ||
"123456789",
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const db = getFirestore(app);
const storage = getStorage(app);
const analytics = getAnalytics(app);
const googleProvider = new GoogleAuthProvider();

// PWA Service Worker Registration (Add to public/sw.js for full PWA)
useEffect(() => {
```

```
  if ('serviceWorker' in navigator) {
    navigator.serviceWorker.register('/sw.js').then(reg => console.log('PWA SW registered',
reg)).catch(err => console.log('SW registration failed', err));
  }
}, []);

// GTM (Add
// src/App.tsx - GOAT Royalty App (v1.17 Final - Complete with Firebase
Auth/Storage/Analytics, GTM, PWA, Logic Pro-Inspired Beat Maker)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState, useRef } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback:

import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from
"@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube,
BadgeDollarSign, Bot, Video, BookOpen, Users, AlertTriangle,
DollarSign, LogIn, LogOut, Database, Upload, Download, Analytics,
Play, Pause, Mic, Waveform } from "lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider,
onAuthStateChanged, User } from "firebase/auth";
import { getFirestore, collection, addDoc, getDocs, doc, setDoc,
deleteDoc, query, where, orderBy } from "firebase/firestore";
import { getStorage, ref, uploadBytes, getDownloadURL, listAll } from
"firebase/storage";
import { getAnalytics, logEvent } from "firebase/analytics"; //
Analytics
import { encryptData, decryptData, hashData, codexGemmaGenerate

// src/App.tsx - GOAT Royalty App (v1.17 Final - Firebase Auth Layer Integrated)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback:
```

```
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from
"@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube,
BadgeDollarSign, Bot, Video, BookOpen, Users, AlertTriangle,
DollarSign, LogIn, LogOut, Database, Upload, Download } from
"lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider,
onAuthStateChanged, User } from "firebase/auth";
import { encryptData, decryptData, hashData, codexGemmaGenerate,
generateDIDAvatar, calculateRoyalty, exportSurvival,
generateFingerprint, speakThemeQuote, uploadToDrive, cyberReconScan,
cyberAnomalyDetect, initStripe, createStripeCheckout,
paypalPayoutButton, initCashAppPay, createCashAppButton } from
'./helpers';

// Firebase Config (Replace with your config from
console.firebase.google.com)
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN ||
"your-project.firebaseapp.com",
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID ||
"your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET ||
"your-project.appspot.com",
  messagingSenderId:
process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID || "123456789",
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const googleProvider = new GoogleAuthProvider();
```

```
const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [user, setUser] = useState(null);
  const [loading, setLoading] = useState(true);
  const [royalties, setRoyalties] = useState([
    { id: 1, creation: 'GOAT Track 1 (Waka Flocka)', sales: 1000
```

```
// src/App.tsx - GOAT Royalty App (v1.17 Final - Complete Integration with Firebase Auth/Storage/Analytics, GTM, PWA, Logic Pro-Inspired Beat Maker)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState, useRef } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback: <div className="border rounded p-4 bg-white shadow">
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot, Video, BookOpen, Users, AlertTriangle, DollarSign, LogIn, LogOut, Database, Upload, Download, Analytics, Play, Pause, Mic, Waveform, Headphones } from "lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider, onAuthStateChanged, User } from "firebase/auth";
import { getFirestore, collection, addDoc, getDocs, doc, setDoc, deleteDoc, query, where, orderBy } from "firebase/firestore";
import { getStorage, ref, uploadBytes, getDownloadURL, listAll } from "firebase/storage";
import { getAnalytics, logEvent } from "firebase/analytics"; // Analytics
import { encryptData, decryptData, hashData, codexGemmaGenerate, generateDIDAvatar, calculateRoyalty, exportSurvival, generateFingerprint, speakThemeQuote, uploadToDrive, cyberReconScan, cyberAnomalyDetect, initStripe, createStripeCheckout, paypalPayoutButton, initCashAppPay, createCashAppButton } from './helpers';

// Firebase Config (Replace with your config from console.firebase.google.com)
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN || "your-project.firebaseapp.com",
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID || "your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET || "your-project.appspot.com",
  messagingSenderId: process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID || "123456789",
```

```
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const db = getFirestore(app);
const storage = getStorage(app);
const analytics = getAnalytics(app);
const googleProvider = new GoogleAuthProvider();

// PWA Service Worker Registration (Add sw.js to public for offline)
useEffect(() => {
  if ('serviceWorker' in navigator) {
    navigator.serviceWorker.register('/sw.js').then(reg => console.log('PWA SW registered',
reg)).catch(err => console.log('SW failed', err));
  }
}, []);

// GTM Events (Add <script> to public/index.html)
useEffect(() => {
  if (process.env.NODE_ENV === 'production') {
    logEvent(analytics, 'app_open', { user_id: user?.uid || 'anonymous' });
  }
}, [user]);

// Beat Maker State (Logic Pro-Inspired)
const [beatBPM, setBeatBPM] = useState(120);
const [beatPattern, setBeatPattern] = useState(['kick', 'snare', 'hi-hat']); // Simple sequencer
const [isPlaying, setIsPlaying] = useState(false);
const [audioContext] = useState(() => new (window.AudioContext || (window as
any).webkitAudioContext)());
const beatRef = useRef<NodeJS.Timeout | null>(null);

const startBeat = () => {
  setIsPlaying(true);
  let step = 0;
  beatRef.current = setInterval(() => {
    step = (step + 1) % beatPattern.length;
    // Mock audio (add Web Audio API for real tones; integrate Akai MPC/Logic via WebMIDI)
    console.log(`Beat Step ${step}: ${beatPattern[step]}`); // Replace with oscillator for sound
  }, 60000 / beatBPM / 4); // Quarter note
};
```

```
const stopBeat = () => {
  setIsPlaying(false);
  if (beatRef.current) clearInterval(beatRef.current);
};

const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [user, setUser] = useState<User | null>(null);
  const [loading, setLoading] = useState(true);
  const [royalties, setRoyalties] = useState([
    { id
// src/App.tsx - GOAT Royalty App (v1.17 Final - Firebase Auth Layer Integrated)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback: <div
className="border rounded p-4 bg-white shadow">
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot,
Video, BookOpen, Users, AlertTriangle, DollarSign, LogIn, LogOut, Database, Upload,
Download } from "lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider, onAuthStateChanged, User }
from "firebase/auth";
import { encryptData, decryptData, hashData, codexGemmaGenerate, generateDIDAvatar,
calculateRoyalty, exportSurvival, generateFingerprint, speakThemeQuote, uploadToDrive,
cyberReconScan, cyberAnomalyDetect, initStripe, createStripeCheckout, paypalPayoutButton,
initCashAppPay, createCashAppButton } from './helpers';

// Firebase Config (Replace with your config from console.firebase.google.com)
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN ||
"your-project.firebaseapp.com",
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID || "your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET ||
"your-project.appspot.com",
  messagingSenderId: process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID ||
"123456789",
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};
```

```
// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const googleProvider = new GoogleAuthProvider();

const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [user, setUser] = useState<User | null>(null);
  const [loading, setLoading] = useState(true);
  const [royalties, setRoyalties] = useState([
    { id: 1, creation: 'GOAT Track 1 (Waka Flocka)', sales: 1000
// src/App.tsx - GOAT Royalty App (v1.17 Final - Complete with Firebase
Auth/Storage/Analytics, GTM, PWA, Logic Pro-Inspired Beat Maker)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState, useRef } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback: <div
className="border rounded p-4 bg-white shadow">
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot,
Video, BookOpen, Users, AlertTriangle, DollarSign, LogIn, LogOut, Database, Upload,
Download, Analytics, Play, Pause, Mic, Waveform } from "lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider, onAuthStateChanged, User }
from "firebase/auth";
import { getFirestore, collection, addDoc, getDocs, doc, setDoc, deleteDoc, query, where,
orderBy } from "firebase/firestore";
import { getStorage, ref, uploadBytes, getDownloadURL, listAll } from "firebase/storage";
import { getAnalytics, logEvent } from "firebase/analytics"; // Analytics
import { encryptData, decryptData, hashData, codexGemmaGenerate
// src/App.tsx - GOAT Royalty App (v1.17 Final - Complete Integration with Firebase
Auth/Storage/Analytics, GTM, PWA, Logic Pro-Inspired Beat Maker)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState, useRef } from "react";
import axios from "axios";
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback: <div
className="border rounded p-4 bg-white shadow">
import { Button } from "@/components/ui/button";
import { Input } from "@/components/ui/input";
```

```
import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs";
import { BarChart3, Search, Globe, ShieldCheck, Music2, Youtube, BadgeDollarSign, Bot,
Video, BookOpen, Users, AlertTriangle, DollarSign, LogIn, LogOut, Database, Upload,
Download, Analytics, Play, Pause, Mic, Waveform, Headphones } from "lucide-react";
import { initializeApp } from "firebase/app";
import { getAuth, signInWithPopup, signOut, GoogleAuthProvider, onAuthStateChanged, User }
from "firebase/auth";
import { getFirestore, collection, addDoc, getDocs, doc, setDoc, deleteDoc, query, where,
orderBy } from "firebase/firestore";
import { getStorage, ref, uploadBytes, getDownloadURL, listAll } from "firebase/storage";
import { getAnalytics, logEvent } from "firebase/analytics"; // Analytics
import { encryptData, decryptData, hashData, codexGemmaGenerate, generateDIDAvatar,
calculateRoyalty, exportSurvival, generateFingerprint, speakThemeQuote, uploadToDrive,
cyberReconScan, cyberAnomalyDetect, initStripe, createStripeCheckout, paypalPayoutButton,
initCashAppPay, createCashAppButton } from './helpers';

// Firebase Config (Replace with your config from console.firebase.google.com)
const firebaseConfig = {
  apiKey: process.env.NEXT_PUBLIC_FIREBASE_API_KEY || "your-api-key",
  authDomain: process.env.NEXT_PUBLIC_FIREBASE_AUTH_DOMAIN ||
"your-project.firebaseapp.com",
  projectId: process.env.NEXT_PUBLIC_FIREBASE_PROJECT_ID || "your-project-id",
  storageBucket: process.env.NEXT_PUBLIC_FIREBASE_STORAGE_BUCKET ||
"your-project.appspot.com",
  messagingSenderId: process.env.NEXT_PUBLIC_FIREBASE_MESSAGING_SENDER_ID ||
"123456789",
  appId: process.env.NEXT_PUBLIC_FIREBASE_APP_ID || "your-app-id"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const db = getFirestore(app);
const storage = getStorage(app);
const analytics = getAnalytics(app);
const googleProvider = new GoogleAuthProvider();

// PWA Service Worker Registration (Add sw.js to public for offline)
useEffect(() => {
  if ('serviceWorker' in navigator) {
    navigator.serviceWorker.register('/sw.js').then(reg => console.log('PWA SW registered',
reg)).catch(err => console.log('SW failed', err));
  }
}, []);
```

```
// GTM Events (Add <script> to public/index.html)
useEffect(() => {
  if (process.env.NODE_ENV === 'production') {
    logEvent(analytics, 'app_open', { user_id: user?.uid || 'anonymous' });
  }
}, [user]);

// Beat Maker State (Logic Pro-Inspired)
const [beatBPM, setBeatBPM] = useState(120);
const [beatPattern, setBeatPattern] = useState(['kick', 'snare', 'hi-hat']); // Simple sequencer
const [isPlaying, setIsPlaying] = useState(false);
const [audioContext] = useState(() => new (window.AudioContext || (window as
any).webkitAudioContext)());
const beatRef = useRef<NodeJS.Timeout | null>(null);

const startBeat = () => {
  setIsPlaying(true);
  let step = 0;
  beatRef.current = setInterval(() => {
    step = (step + 1) % beatPattern.length;
    // Mock audio (add Web Audio API for real tones; integrate Akai MPC/Logic via WebMIDI)
    console.log(`Beat Step ${step}: ${beatPattern[step]}`); // Replace with oscillator for sound
  }, 60000 / beatBPM / 4); // Quarter note
};

const stopBeat = () => {
  setIsPlaying(false);
  if (beatRef.current) clearInterval(beatRef.current);
};

const GOATRoyaltyApp: React.FC = () => {
  const [activeTab, setActiveTab] = useState('royalty');
  const [user, setUser] = useState<User | null>(null);
  const [loading, setLoading] = useState(true);
  const [royalties, setRoyalties] = useState([
    { id
// src/App.tsx - GOAT Royalty App (v1.17 Final - Complete Integration with Firebase
Auth/Storage/Analytics, GTM, PWA, Logic Pro/Akai/FL Studio Mock)
'use client'; // For Next.js; remove for CRA

import React, { useEffect, useState, useRef } from "react";
import axios from "axios";
```

```
import { Card, CardContent } from "@/components/ui/card"; // Shadcn; fallback: <div
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// src/App.tsx - GOAT Royalty App (v1.17 Final - Complete with Firebase
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  }
}, []);

// GTM Events (Add
```

```
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reg)).catch(err => console.log('SW failed', err));
  }
}, []);

// GTM Events (Add
// src/App.tsx - GOAT Royalty App (v1.17 Final - Complete Integration with Firebase
Auth/Storage/Analytics, GTM, PWA, DAW Beat Maker)
'use client'; // For Next.js; remove for CRA

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import { getStorage, ref, uploadBytes, getDownloadURL, listAll, deleteObject } from
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import { getAnalytics, log
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