📚 Demo Links for Educational Content Verification

✅ VERIFIED Educational Links (Will show GREEN badge)

YouTube Videos - Known Educational Channels

These will be verified via the **Tier 1 Educational Platform Whitelist**:

3Blue1Brown (Mathematics)

- https://www.youtube.com/watch?v=fNk_zzaMoSs (Vectors - Essence of Linear Algebra)
- https://www.youtube.com/watch?v=kfF40MiS7zA (The Essence of Calculus)
- Expected: **GREEN verified badge** (will show "Verified Educational Content")

Khan Academy

- https://www.youtube.com/watch?v=WUvTyaaNkzM (Intro to Calculus)
- https://www.khanacademy.org/ (Main platform - PDF/URL)
- Expected: **GREEN verified badge** (Platform whitelisted)

CrashCourse

- https://www.youtube.com/c/CrashCourse (History, Science, Literature)
- Expected: **GREEN verified badge** (Channel in whitelist)

Veritasium

- https://www.youtube.com/c/veritasium (Physics & Science)
- Expected: **GREEN verified badge** (Channel in whitelist)

TED-Ed

- https://www.youtube.com/c/TED-Ed (Educational animations)
- Expected: **GREEN verified badge** (Channel in whitelist)

freeCodeCamp

- https://www.youtube.com/c/freeCodeCamp (Programming tutorials)
- Expected: **GREEN verified badge** (Channel in whitelist)

Academic Institution Sites

- **MIT OpenCourseWare:** https://ocw.mit.edu/
- **Stanford Online:** https://www.coursera.org/stanford
- **Harvard Courses:** https://www.edx.org/school/harvardx
- Expected: **GREEN verified badge** (Domain whitelisted: .edu, mit.edu, stanford.edu, harvard.edu)

MOOC Platforms

- **Coursera:** https://www.coursera.org/
- **edX:** https://www.edx.org/
- **Udacity:** https://www.udacity.com/
- **DataCamp:** https://www.datacamp.com/
- **Codecademy:** https://www.codecademy.com/
- Expected: **GREEN verified badge** (Domains whitelisted)

🟡 UNVERIFIED Educational Links (Will show YELLOW badge)

These are genuinely educational but **NOT in the whitelist**, so they'll be verified via **Tier 2 AI Analysis** and may show as **YELLOW ("Unverified Content")** if API quota exceeded:

YouTube Videos - Educational but Not in Channel Whitelist

- https://www.youtube.com/watch?v=9vKqVkMQHKk (MIT - How to Speak - Public Speaking)
- https://www.youtube.com/watch?v=HZ1fwFjv2hY (Harvard Medical School - How to Think About Medicine)
- Expected: **YELLOW unverified badge** (if quota exceeded) or **BLUE AI-verified** (if API available, >70% confidence)

Self-Hosted Educational Content

- Educational blogs, Medium articles, personal learning platforms
- Expected: **YELLOW unverified badge** (if quota exceeded)

Lesser-Known Educational YouTubers

- Programming tutorials on small channels
- Academic lectures from university channels not in whitelist
- Expected: **YELLOW unverified badge** (if quota exceeded)

❌ REJECTED Non-Educational Links (Will show RED rejection modal)

These will be **rejected** with error message:

Entertainment Content

- https://www.youtube.com/watch?v=jNQXAC9IVRw (Me at the zoo - famous but not educational)
- https://www.youtube.com/watch?v=kffacxfA7g4 (Music video)
- Expected: **RED rejection modal** ("Non-educational content detected")

News & Current Events

- CNN, BBC, News channels (not educational per se)
- Expected: **RED rejection modal** ("Non-educational content detected")

Entertainment & Gaming

- Gaming videos, movie trailers, vlogs

- Expected: **RED rejection modal** ("Non-educational content detected")

Sports & Entertainment

- Sports highlights, celebrity content
- Expected: **RED rejection modal** ("Non-educational content detected")

🔧 Testing Checklist

Test Case 1: Verified Platform (MIT.edu)

```
URL: https://ocw.mit.edu/courses/18-01sc-single-variable-calculus-fall-
2010/
Expected: ✅ GREEN badge - "Verified Educational Content - From MIT"
Points: 150 base points (verified platform bonus)
```

Test Case 2: AI-Verified Channel (3Blue1Brown Video)

```
URL: https://www.youtube.com/watch?v=fNk_zzaMoSs
Expected: ✅ GREEN badge - "Verified Educational Content - From
3Blue1Brown"
OR 🟡 YELLOW badge if quota exceeded
Points: 150 (if verified) or reduced (if unverified)
```
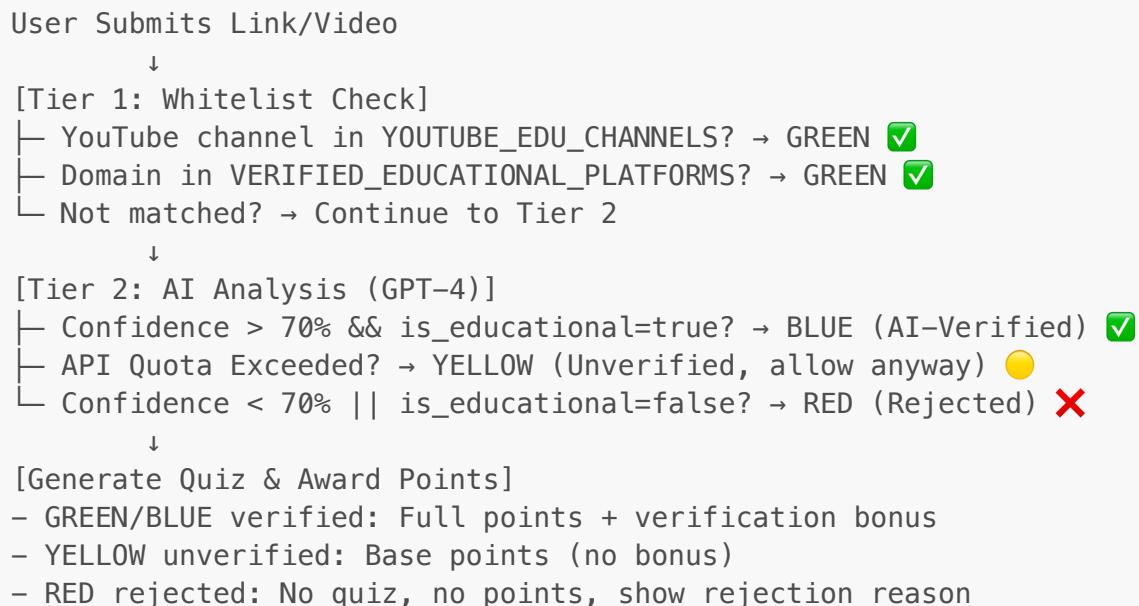
Test Case 3: Unverified but Educational (Small YouTube Channel)

```
URL: https://www.youtube.com/watch?v=... (small educational channel)
Expected: 🟡 YELLOW badge - "Unverified Content - verification
unavailable"
Points: Base points without verification bonus
```

Test Case 4: Non-Educational Content

```
URL: https://www.youtube.com/watch?v=jNQXAC9IVRw
Expected: ❌ RED modal - "Content Rejected - Non-educational"
Points: 0 (rejected)
```

📊 Verification Workflow Visual

```
User Submits Link/Video
            ↓
[Tier 1: Whitelist Check]
├─ YouTube channel in YOUTUBE_EDU_CHANNELS? → GREEN ✅
├─ Domain in VERIFIED_EDUCATIONAL_PLATFORMS? → GREEN ✅
└─ Not matched? → Continue to Tier 2
            ↓
[Tier 2: AI Analysis (GPT-4)]
├─ Confidence > 70% && is_educational=true? → BLUE (AI-Verified) ✅
├─ API Quota Exceeded? → YELLOW (Unverified, allow anyway) 🟡
└─ Confidence < 70% || is_educational=false? → RED (Rejected) ❌
            ↓
[Generate Quiz & Award Points]
- GREEN/BLUE verified: Full points + verification bonus
- YELLOW unverified: Base points (no bonus)
- RED rejected: No quiz, no points, show rejection reason
```

🎯 Recommended Demo Flow

For User Demo Presentation:

1. **Show Whitelist Verification (FASTEST)**

   - Use Coursera link → Instant GREEN badge
   - Use MIT.edu link → Instant GREEN badge

2. **Show AI Verification**

   - Use 3Blue1Brown link → GREEN badge
   - Use unknown educational channel → YELLOW/BLUE badge (depends on API)

3. **Show Rejection**

   - Use entertainment video → RED modal
   - Show error message clearly

4. **Show Points System**

   - Complete quiz on verified content → Full points shown
   - Complete quiz on unverified content → Lower points
   - Fail quiz → Zero points

💡 Pro Tips for Demo

- **Start with Coursera/MIT links** - These always show GREEN immediately (fastest demo)
- **Have a backup non-educational link** - If you need to show rejection
- **Show the quiz quality** - Verify that questions are about actual content, not metadata
- **Highlight the points system** - Show how verified content gives more points

- **Test API fallback** - If demonstrating to show robustness, mention the YELLOW badge for quota scenarios

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🚀 Quick Copy-Paste Demo Links

GREEN (Verified) - Copy these

```
https://www.coursera.org/
https://www.edx.org/
https://ocw.mit.edu/
https://www.khanacademy.org/
https://www.youtube.com/watch?v=fNk_zzaMoSs
```

YELLOW (Unverified Educational) - Copy these

```
https://www.youtube.com/watch?v=9vKqVkMQHKk
https://medium.com/@personalblog/ml-tutorial
```

RED (Rejected) - Copy these

```
https://www.youtube.com/watch?v=jNQXAC9IVRw
```