

Facebook Live Automation Pipeline

This document outlines how to move from manual iframe embedding to an automated process that fetches the latest Sunday service automatically using the Facebook Graph API.

Phase 1: Manual Method (Current)

Currently, we are using the **Facebook Embedded Posts** tool.

1. Go to the Facebook post.
2. Click the three dots ... and select "Embed".
3. Copy the <iframe> code into `LiveStreamingPage.tsx`.

Phase 2: Automated Pipeline (Recommended)

To show the "Latest Live Video" automatically, you need to connect the website to the **Facebook Graph API**.

1. Requirements

- A **Facebook Developer Account**.
- A **Facebook App** created in the developer portal.
- A **Page Access Token** (Permanent) for the Unity Community Church page.

2. The API Workflow

Your future Django backend or a simple Lambda function can perform these steps:

A. Fetch Latest Video

Query the `video` edge of your page:

```
GET /v18.0/{page-id}/videos?type=live
```

This returns the most recent live stream ID.

B. Dynamic Embed URL Generation

Once you have the `{video-id}`, you can construct the embed URL dynamically in React:

```
const embedUrl = `https://www.facebook.com/plugins/video.php?href=https://www.facebook.
```

3. Implementation Steps

1. **Authentication:** Use a "Short-Lived" User Token to generate a "Long-Lived" Page Access Token.
2. **Backend Cache:** Store the `latestVideoId` in your Django database. Update it every hour via a Cron job so you don't hit Facebook's API limits.
3. **Frontend Logic:**
 - The `LiveStreamingPage.tsx` clears its local state and fetches the `{latestVideoId}` from your Django API.
 - If a video is currently "LIVE", show a "JOIN NOW" badge.
 - If not, show the most recent "PREVIOUSLY RECORDED" video.

Phase 3: Webhooks (Real-Time)

For instant updates when a service starts:

1. Configure **Facebook Webhooks**.
2. Subscribe to `live_videos` on the page.
3. When Facebook sends a "live started" notification to your backend, your website can immediately show the "WE ARE LIVE" banner to all active users.

Summary of Benefits

- **Zero Maintenance:** No more copy-pasting code every Monday.
- **Improved UX:** Shows "Live" status in real-time.
- **Professionalism:** Ensures the website always features the most current message.