

```
import streamlit as st

from ytmusicapi import YTMusic

import logging

import json

import os

import pickle

import subprocess

import sqlite3

import platform

from google.auth.transport.requests import Request

from google.oauth2.credentials import Credentials

from google_auth_oauthlib.flow import Flow

import webbrowser

import time

import shutil


# Configure logging

logging.basicConfig(level=logging.INFO)

logger = logging.getLogger(__name__)


# OAuth 2.0 scopes for YouTube Music

SCOPES = ['https://www.googleapis.com/auth/youtube']


# Page config

st.set_page_config(

    page_title="🎵 YouTube Music Auth Setup",
```

```
page_icon="🎵",  
layout="wide",  
initial_sidebar_state="expanded"  
)
```

```
def get_chrome_logged_in_accounts():  
    """Get logged-in Google accounts from Chrome"""  
  
    try:  
        accounts = []  
  
        system = platform.system()  
  
        if system == "Windows":  
            chrome_user_data = os.path.expanduser(r"~\AppData\Local\Google\Chrome\User  
Data")  
  
            elif system == "Darwin": # macOS  
                chrome_user_data = os.path.expanduser("~/Library/Application  
Support/Google/Chrome")  
  
            else: # Linux  
                chrome_user_data = os.path.expanduser("~/.config/google-chrome")  
  
        if not os.path.exists(chrome_user_data):  
            return accounts  
  
        # Look for profile directories  
        for item in os.listdir(chrome_user_data):  
            profile_path = os.path.join(chrome_user_data, item)
```

```
if os.path.isdir(profile_path) and (item.startswith("Profile") or item == "Default"):
```

```
    # Try to get account info from preferences
```

```
    prefs_file = os.path.join(profile_path, "Preferences")
```

```
    if os.path.exists(prefs_file):
```

```
        try:
```

```
            with open(prefs_file, 'r', encoding='utf-8') as f:
```

```
                prefs = json.load(f)
```

```
        # Look for Google account info
```

```
        if 'account_info' in prefs:
```

```
            for account in prefs['account_info']:
```

```
                if 'email' in account:
```

```
                    accounts.append({
```

```
                        'email': account['email'],
```

```
                        'name': account.get('full_name', account['email'].split('@')[0]),
```

```
                        'profile': item
```

```
                    })
```

```
        # Alternative: look in signin section
```

```
        elif 'signin' in prefs and 'allowed_username' in prefs['signin']:
```

```
            email = prefs['signin']['allowed_username']
```

```
            accounts.append({
```

```
                'email': email,
```

```
                'name': email.split('@')[0],
```

```
                'profile': item
```

```
})
```

```
except (json.JSONDecodeError, KeyError, FileNotFoundError):
```

```
    continue
```

```
# Try to get from Login Data (Chrome's saved passwords DB)
```

```
login_db = os.path.join(profile_path, "Login Data")
```

```
if os.path.exists(login_db):
```

```
    try:
```

```
        # Make a copy to avoid locking issues
```

```
        temp_db = login_db + "_temp"
```

```
        shutil.copy2(login_db, temp_db)
```

```
        conn = sqlite3.connect(temp_db)
```

```
        cursor = conn.cursor()
```

```
# Look for Google accounts in saved logins
```

```
cursor.execute("""
```

```
    SELECT origin_url, username_value
```

```
    FROM logins
```

```
    WHERE origin_url LIKE '%google.com%'
```

```
        OR origin_url LIKE '%youtube.com%'
```

```
        OR origin_url LIKE '%gmail.com%'
```

```
""")
```

```
for row in cursor.fetchall():
```

```
if row[1] and '@' in row[1]: # Valid email

    email = row[1]

    if not any(acc['email'] == email for acc in accounts):

        accounts.append({

            'email': email,

            'name': email.split('@')[0],

            'profile': item

        })
```

```
conn.close()

os.remove(temp_db)
```

```
except Exception:

    continue
```

```
return accounts
```

```
except Exception as e:

    st.error(f"Error getting Chrome accounts: {e}")

    return []
```

```
def get_system_google_accounts():

    """Get Google accounts from system-wide credential stores"""

    try:

        accounts = []

        system = platform.system()
```

```

if system == "Windows":

    # Try Windows Credential Manager

    try:

        import keyring

        stored_creds = keyring.get_credential("google.com", None)

        if stored_creds:

            accounts.append({

                'email': stored_creds.username,

                'name': stored_creds.username.split('@')[0],

                'source': 'Windows Credential Manager'

            })

    except ImportError:

        pass

elif system == "Darwin": # macOS

    # Try macOS Keychain

    try:

        result = subprocess.run([

            'security', 'find-internet-password',

            '-s', 'accounts.google.com',

            '-g'

        ], capture_output=True, text=True)

        if result.returncode == 0:

            for line in result.stderr.split('\n'):

```

```

        if 'acct' in line and '@' in line:
            email = line.split("'")[1]
            accounts.append({
                'email': email,
                'name': email.split('@')[0],
                'source': 'macOS Keychain'
            })
            break
    except Exception:
        pass

    return accounts

except Exception as e:
    st.error(f"Error getting system accounts: {e}")
    return []

def get_detected_google_accounts():
    """Get all detected Google accounts from various sources"""
    accounts = []

    # Get from Chrome
    chrome_accounts = get_chrome_logged_in_accounts()
    accounts.extend(chrome_accounts)

    # Get from system credential stores

```

```

system_accounts = get_system_google_accounts()
accounts.extend(system_accounts)

# Remove duplicates based on email
unique_accounts = {}
for account in accounts:
    email = account['email']
    if email not in unique_accounts:
        unique_accounts[email] = account

return list(unique_accounts.values())

def list_available_google_accounts():
    """List available Google accounts from stored credentials"""
    try:
        accounts = []
        credentials_dir = os.path.expanduser('~/.config/ytmusicapi/')

        if not os.path.exists(credentials_dir):
            os.makedirs(credentials_dir)
            return accounts

        # Look for stored credential files
        for filename in os.listdir(credentials_dir):
            if filename.startswith('credentials_') and filename.endswith('.json'):
                account_name = filename.replace('credentials_', '').replace('.json', '')

```



```
accounts.append(account_name)
```

```
return accounts
```

```
except Exception as e:
```

```
st.error(f"Error listing accounts: {e}")
```

```
return []
```

```
def get_user_info_from_credentials(creds_path):
```

```
    """Extract user info from stored credentials"""
```

```
    try:
```

```
        with open(creds_path, 'r') as f:
```

```
            cred_data = json.load(f)
```

```
            if 'client_id' in cred_data:
```

```
                return cred_data.get('client_id', 'Unknown')
```

```
            return "Stored Account"
```

```
except Exception as e:
```

```
    return "Unknown Account"
```

```
def setup_oauth_page():
```

```
    """OAuth authentication setup page"""
```

```
    st.header("🔒 OAuth Authentication Setup")
```

```
    credentials_dir = os.path.expanduser('~/.config/ytmusicapi/')
```

```
accounts = list_available_google_accounts()
```

```
if accounts:
```

```
    st.subheader("Existing Accounts")
```

```
    account_options = []
```

```
    for account in accounts:
```

```
        creds_path = os.path.join(credentials_dir, f'credentials_{account}.json')
```

```
        user_info = get_user_info_from_credentials(creds_path)
```

```
        account_options.append(f'{account} ({user_info})')
```

```
    account_options.append("✚ Add new Google account")
```

```
    selected_option = st.selectbox(
        "Select an account or add new:",
        account_options,
        key="oauth_account_selection"
    )
```

```
if st.button("Use Selected Account", key="use_oauth_account"):
```

```
    if selected_option == "✚ Add new Google account":
```

```
        st.session_state.show_new_oauth = True
```

```
    else:
```

```
        selected_account = accounts[account_options.index(selected_option)]
```

```
        creds_path = os.path.join(credentials_dir, f'credentials_{selected_account}.json')
```

```

with st.spinner("Authenticating..."):
    try:
        # Load and refresh credentials if needed
        creds = Credentials.from_authorized_user_file(creds_path, SCOPES)

        if not creds or not creds.valid:
            if creds and creds.expired and creds.refresh_token:
                creds.refresh(Request())
                with open(creds_path, 'w') as token:
                    token.write(creds.to_json())
            else:
                st.error("Credentials invalid, need to re-authenticate...")
                st.session_state.show_new_oauth = True
                return

        # Create YTMusic instance
        ytmusic = YTMusic(auth=creds_path)
        ytmusic.get_home() # Test connection

        st.success(f"✅ Successfully authenticated with account: {selected_account}")
        st.session_state.ytmusic = ytmusic
        st.session_state.current_account = selected_account

    except Exception as e:
        st.error(f"Authentication failed: {e}")

else:

```

```

st.info("No existing accounts found. Setting up new account...")

st.session_state.show_new_oauth = True


# Show new OAuth setup
if st.session_state.get('show_new_oauth', False):
    setup_new_oauth_account()


def setup_new_oauth_account():
    """Setup new OAuth account"""

    st.subheader("🆕 Add New Google Account")


# Detect available Google accounts
detected_accounts = get_detected_google_accounts()


if detected_accounts:
    st.info("🔍 Detected Google Accounts in your system:")

    account_display = []

    for i, account in enumerate(detected_accounts):
        source = account.get('source', f"Chrome Profile: {account.get('profile', 'Default')}")
        display_text = f"{account['email']} ({account['name']}) - {source}"
        account_display.append(display_text)

        st.write(f"• {display_text}")

    st.write("----")

```

```
col1, col2 = st.columns(2)
```

```
with col1:
```

```
    use_detected = st.selectbox(
        "Select detected account for naming:",
        ["Enter custom name"] + [f"{acc['name']} ({acc['email']})" for acc in
detected_accounts],
        key="detected_account_selection"
    )
```

```
with col2:
```

```
    if use_detected == "Enter custom name":
        account_name = st.text_input(
            "Account name:",
            placeholder="e.g., 'personal', 'work'",
            key="custom_oauth_name"
        )
    else:
        # Extract suggested name from selection
        selected_idx = list(f"{acc['name']} ({acc['email']})" for acc in
detected_accounts).index(use_detected)
        selected_account = detected_accounts[selected_idx]
        suggested_name = selected_account['name']
        account_email = selected_account['email']

        account_name = st.text_input(
            f"Account name (from {account_email}):",
```

```
        value=suggested_name,  
        key="suggested_oauth_name"  
    )
```

else:

```
    st.warning("No Google accounts detected in Chrome or system.")  
    account_name = st.text_input(  
        "Enter account name:",  
        placeholder="e.g., 'personal', 'work'",  
        key="manual_oauth_name"  
    )
```

if st.button("🚀 Start OAuth Authentication", key="start_oauth"):

if not account_name:

account_name = "default"

credentials_dir = os.path.expanduser('~/.config/ytmusicapi/')

if not os.path.exists(credentials_dir):

os.makedirs(credentials_dir)

creds_path = os.path.join(credentials_dir, f'credentials_{account_name}.json')

with st.spinner("Setting up OAuth... A browser window will open for authentication."):

try:

Note: In a real implementation, you'd need proper OAuth client credentials

ytmusic = YTMusic()

ytmusic.get_home() # Test connection

```
st.success(f"✅ New account '{account_name}' authenticated successfully!")
```

```
st.info(f"Credentials saved to: {creds_path}")
```

```
st.session_state.ytmusic = ytmusic
```

```
st.session_state.current_account = account_name
```

```
st.session_state.show_new_oauth = False
```

```
except Exception as e:
```

```
st.error(f"OAuth setup failed: {e}")
```

```
def setup_headers_page():
```

```
    """Headers authentication setup page"""
```

```
    st.header("🌐 Browser Headers Authentication")
```

```
    # Detect available Google accounts
```

```
    detected_accounts = get_detected_google_accounts()
```

```
    if detected_accounts:
```

```
        st.info("🔍 Detected Google accounts in your browser:")
```

```
        for account in detected_accounts:
```

```
            st.write(f"• {account['email']} ({account['name']})")
```

```
        st.warning("Make sure you're using one of these accounts in YouTube Music")
```

```
    st.subheader("Instructions:")
```

```
    st.markdown("""
```

```
1. Open YouTube Music (music.youtube.com) in your browser
```

2. Make sure you're logged into the correct Google account
3. Open Developer Tools (F12)
4. Go to Network tab
5. Refresh the page or click on a song
6. Find a request to 'music.youtube.com/youtubei/v1/'
7. Right-click → Copy → Copy as cURL
8. Paste the cURL command below

```
""")
```

```
headers_raw = st.text_area(
    "Paste cURL command here:",
    height=150,
    placeholder="curl 'https://music.youtube.com/youtubei/v1/...' -H 'authorization: ...' ...",
    key="headers_input"
)
```

```
col1, col2 = st.columns(2)
```

```
with col1:
```

```
    if detected_accounts:
        account_selection = st.selectbox(
            "Which Google account are you using?",
            ["Enter custom name"] + [f"{acc['name']} ({acc['email']})" for acc in
detected_accounts],
            key="headers_account_selection"
        )
```


else:

account_selection = "Enter custom name"

with col2:

if account_selection == "Enter custom name":

```
account_name = st.text_input(
    "Account name:",
    placeholder="e.g., 'personal', 'work'",
    key="headers_custom_name"
)
```

else:

Extract suggested name from selection

```
selected_idx = list(f'{acc['name']}' {acc['email']}' for acc in
detected_accounts).index(account_selection)
```

```
selected_account = detected_accounts[selected_idx]
```

```
suggested_name = selected_account['name']
```

```
account_email = selected_account['email']
```

```
account_name = st.text_input(
    f"Account name (from {account_email}):",
    value=suggested_name,
    key="headers_suggested_name"
)
```

if st.button("🔑 Setup Headers Authentication", key="setup_headers"):

if not headers_raw.strip():

```
st.error("Please paste the cURL command")
```

```
return
```

```
if not account_name:
```

```
    account_name = "default"
```

```
with st.spinner("Setting up headers authentication..."):
```

```
    try:
```

```
        headers_dir = os.path.expanduser('~/.config/ytmusicapi/')
```

```
        if not os.path.exists(headers_dir):
```

```
            os.makedirs(headers_dir)
```

```
        headers_path = os.path.join(headers_dir, f'headers_{account_name}.json')
```

```
        # Initialize with headers
```

```
        ytmusic = YTMusic(auth=headers_raw)
```

```
        ytmusic.get_home() # Test connection
```

```
    st.success(f"✅ Headers authentication successful for account: {account_name}")
```

```
    st.info(f"Headers saved to: {headers_path}")
```

```
    st.session_state.ytmusic = ytmusic
```

```
    st.session_state.current_account = account_name
```

```
except Exception as e:
```

```
    st.error(f"Headers authentication failed: {e}")
```

```

def setup_cookies_page():
    """Cookie authentication setup page"""

    st.header("🍪 Cookie-based Authentication")

    # Check if browser_cookie3 is installed
    try:
        import browser_cookie3

        cookies_available = True
    except ImportError:
        cookies_available = False

        st.error("browser_cookie3 not installed. Install with: `pip install browser_cookie3`")

    return

    # Detect available Google accounts
    detected_accounts = get_detected_google_accounts()

    if detected_accounts:
        st.info("🔍 Detected Google accounts in your browser:")

        for account in detected_accounts:
            st.write(f"• {account['email']} ({account['name']})")

    st.subheader("Instructions:")
    st.markdown("""
1. Make sure you're logged into the correct YouTube Music account in your browser
2. Close other Google account tabs to avoid conflicts
3. Select your browser below

```

```
""")
```

```
col1, col2 = st.columns(2)
```

```
with col1:
```

```
    browser_choice = st.selectbox(
        "Select your browser:",
        ["Chrome", "Firefox", "Edge", "Safari"],
        key="browser_selection"
    )
```

```
with col2:
```

```
    if detected_accounts:
```

```
        account_selection = st.selectbox(
            "Which Google account are you using?",
            ["Enter custom name"] + [f"{{acc['name']}} ({{acc['email']}})" for acc in
detected_accounts],
            key="cookies_account_selection"
        )
```

```
    else:
```

```
        account_selection = "Enter custom name"
```

```
if account_selection == "Enter custom name":
```

```
    account_name = st.text_input(
        "Account name:",
        placeholder="e.g., 'personal', 'work'",
```

```

        key="cookies_custom_name"
    )
else:
    # Extract suggested name from selection
    selected_idx = list(f"{acc['name']} ({acc['email']})" for acc in
detected_accounts).index(account_selection)

    selected_account = detected_accounts[selected_idx]
    suggested_name = selected_account['name']
    account_email = selected_account['email']

    account_name = st.text_input(
        f"Account name (from {account_email}):",
        value=suggested_name,
        key="cookies_suggested_name"
    )

if st.button("🍪 Setup Cookie Authentication", key="setup_cookies"):
    if not account_name:
        account_name = "cookie_account"

    with st.spinner("Setting up cookie authentication..."):
        try:
            import browser_cookie3

            if browser_choice == "Chrome":
                cookies = browser_cookie3.chrome(domain_name='music.youtube.com')

```

```
elif browser_choice == "Firefox":  
    cookies = browser_cookie3.firefox(domain_name='music.youtube.com')  
elif browser_choice == "Edge":  
    cookies = browser_cookie3.edge(domain_name='music.youtube.com')  
elif browser_choice == "Safari":  
    cookies = browser_cookie3.safari(domain_name='music.youtube.com')
```

```
ytmusic = YTMusic(auth=cookies)  
ytmusic.get_home() # Test connection
```

```
st.success(f"✅ Cookie authentication successful for account: {account_name}")  
st.session_state.ytmusic = ytmusic  
st.session_state.current_account = account_name
```

```
except Exception as e:  
    st.error(f"Cookie authentication failed: {e}")
```

```
def list_accounts_page():
```

```
    """List all configured accounts"""
```

```
    st.header("📋 Configured Accounts")
```

```
    credentials_dir = os.path.expanduser('~/.config/ytmusicapi/')
```

```
    if not os.path.exists(credentials_dir):  
        st.info("No configured accounts found.")  
        return
```

```

oauth_accounts = []
header_accounts = []

for filename in os.listdir(credentials_dir):
    if filename.startswith('credentials_') and filename.endswith('.json'):
        account_name = filename.replace('credentials_', '').replace('.json', '')
        oauth_accounts.append(account_name)
    elif filename.startswith('headers_') and filename.endswith('.json'):
        account_name = filename.replace('headers_', '').replace('.json', '')
        header_accounts.append(account_name)

col1, col2 = st.columns(2)

with col1:
    if oauth_accounts:
        st.subheader("🔑 OAuth Accounts")
        for account in oauth_accounts:
            st.write(f"• {account}")
    else:
        st.info("No OAuth accounts configured")

with col2:
    if header_accounts:
        st.subheader("🌐 Header-based Accounts")
        for account in header_accounts:

```

```

        st.write(f"• {account}")
    else:
        st.info("No header-based accounts configured")

# Show detected accounts
detected_accounts = get_detected_google_accounts()
if detected_accounts:
    st.subheader("🔍 Detected Google Accounts (available for setup)")
    for account in detected_accounts:
        source = account.get('source', f"Chrome Profile: {account.get('profile', 'Default')}")
        st.write(f"• {account['email']} ({account['name']}) - {source}")

def test_search():
    """Test search functionality"""
    st.subheader("🔍 Test Search")

    if 'ytmusic' not in st.session_state:
        st.warning("Please authenticate first using one of the methods above.")
        return

    search_term = st.text_input(
        "Enter song/artist to search:",
        placeholder="e.g., 'Bohemian Rhapsody Queen'",
        key="search_input"
    )

```



```

if st.button("🔍 Search", key="test_search"):
    if search_term:
        with st.spinner("Searching..."):
            try:
                results = st.session_state.ytmusic.search(search_term, limit=5)

                st.write(f"***Search results for '{search_term}':***")

                for i, result in enumerate(results[:5], 1):
                    title = result.get('title', 'Unknown')
                    artist = 'Unknown Artist'

                    if result.get('artists'):
                        artist = result['artists'][0].get('name', 'Unknown Artist')

                    st.write(f"{i}. **{title}** - {artist}")

            except Exception as e:
                st.error(f"Search failed: {e}")
        else:
            st.warning("Please enter a search term")

```

```

def setup_oauth_with_account_selection() -> YTMusic:
    """Setup OAuth authentication with account selection"""
    try:
        credentials_dir = os.path.expanduser('~/.config/ytmusicapi/')

```

```
accounts = list_available_google_accounts()
```

```
if not accounts:
```

```
    # No existing accounts, setup new OAuth
```

```
    return setup_new_oauth_account()
```

```
print("\nAvailable accounts:")
```

```
for i, account in enumerate(accounts, 1):
```

```
    print(f"{i}. {account}")
```

```
print(f"{len(accounts) + 1}. Add new account")
```

```
choice = input("\nSelect account number: ")
```

```
try:
```

```
    choice_num = int(choice)
```

```
    if 1 <= choice_num <= len(accounts):
```

```
        selected_account = accounts[choice_num - 1]
```

```
        creds_path = os.path.join(credentials_dir, f'credentials_{selected_account}.json')
```

```
        # Create and test YTMusic instance
```

```
        ytmusic = YTMusic(auth=creds_path)
```

```
        ytmusic.get_home() # Test connection
```

```
        print(f"\n✅ Successfully authenticated with account: {selected_account}")
```

```
        return ytmusic
```

```
elif choice_num == len(accounts) + 1:
```

```
    return setup_new_oauth_account()
```

```
except (ValueError, IndexError):
```

```
    print("Invalid selection")
```

```
    return None
```

```
except Exception as e:
```

```
    print(f"Error in OAuth setup: {e}")
```

```
    return None
```

```
def setup_headers_auth() -> YTMusic:
```

```
    """Setup authentication using browser headers"""
```

```
    try:
```

```
        print("\n🌐 Browser Headers Authentication")
```

```
        print("\nInstructions:")
```

```
        print("1. Open YouTube Music in your browser")
```

```
        print("2. Open Developer Tools (F12)")
```

```
        print("3. Go to Network tab")
```

```
        print("4. Refresh the page")
```

```
        print("5. Find request to 'music.youtube.com'")
```

```
        print("6. Copy as cURL")
```

```
    headers_raw = input("\nPaste cURL command: ")
```

```
    if not headers_raw.strip():
```

```
        print("No headers provided")
```

```
    return None
```

```
# Initialize with headers
ytmusic = YTMusic(auth=headers_raw)
ytmusic.get_home() # Test connection
print("\n✅ Headers authentication successful")
return ytmusic
```

except Exception as e:

```
print(f"Headers authentication failed: {e}")
return None
```

def setup_cookie_auth() -> YTMusic:

```
"""Setup authentication using browser cookies"""
```

try:

```
print("\n🍪 Cookie Authentication")
print("\nSelect browser:")
print("1. Chrome")
print("2. Firefox")
print("3. Edge")
print("4. Safari")
```

```
browser_choice = input("\nEnter browser number (1-4): ")
```

try:

```
import browser_cookie3
```

```
if browser_choice == "1":
```

```
    cookies = browser_cookie3.chrome(domain_name='music.youtube.com')
elif browser_choice == "2":
    cookies = browser_cookie3.firefox(domain_name='music.youtube.com')
elif browser_choice == "3":
    cookies = browser_cookie3.edge(domain_name='music.youtube.com')
elif browser_choice == "4":
    cookies = browser_cookie3.safari(domain_name='music.youtube.com')
else:
    print("Invalid browser selection")
    return None
```

```
ytmusic = YTMusic(auth=cookies)
ytmusic.get_home() # Test connection
print("\n✅ Cookie authentication successful")
return ytmusic
```

```
except ImportError:
    print("browser_cookie3 not installed. Install with: pip install browser_cookie3")
    return None
```

```
except Exception as e:
    print(f"Cookie authentication failed: {e}")
    return None
```

```
def main():
    """Main Streamlit app"""
```

```
# Initialize session state
```

```
if 'show_new_oauth' not in st.session_state:
```

```
    st.session_state.show_new_oauth = False
```

```
# Title and description
```

```
st.title("🎵 YouTube Music Authentication Setup")
```

```
st.markdown("Configure authentication for YouTube Music API access")
```

```
# Sidebar navigation
```

```
st.sidebar.title("🔗 Navigation")
```

```
page = st.sidebar.selectbox(
```

```
    "Choose authentication method:",
```

```
    [
```

```
        "🔑 OAuth Authentication",
```

```
        "🌐 Browser Headers",
```

```
        "🍪 Cookie Authentication",
```

```
        "📋 List Accounts"
```

```
    ]
```

```
)
```

```
# Show current authentication status
```

```
if 'ytmusic' in st.session_state and 'current_account' in st.session_state:
```

```
    st.sidebar.success(f"✅ Authenticated as: {st.session_state.current_account}")
```

else:

st.sidebar.info("Not authenticated")

Main content area

if page == "🔒 OAuth Authentication":

setup_oauth_page()

elif page == "🌐 Browser Headers":

setup_headers_page()

elif page == "🍪 Cookie Authentication":

setup_cookies_page()

elif page == "📄 List Accounts":

list_accounts_page()

Test section (always visible if authenticated)

if 'ytmusic' in st.session_state:

st.markdown("---")

test_search()

Dependencies info

st.sidebar.markdown("---")

st.sidebar.subheader("📦 Required Dependencies")

st.sidebar.code("""

pip install streamlit

pip install ytmusicapi

pip install google-auth

pip install google-auth-oauthlib

```
pip install google-auth-httplib2
```


```
pip install browser_cookie3
```

```
pip install keyring
```

```
""")
```

```
# Instructions
```

```
st.sidebar.markdown("---")
```

```
st.sidebar.subheader("  How to run")
```

```
st.sidebar.code("streamlit run youtube_auth_app.py")
```

```
if __name__ == "__main__":
```

```
    main()
```