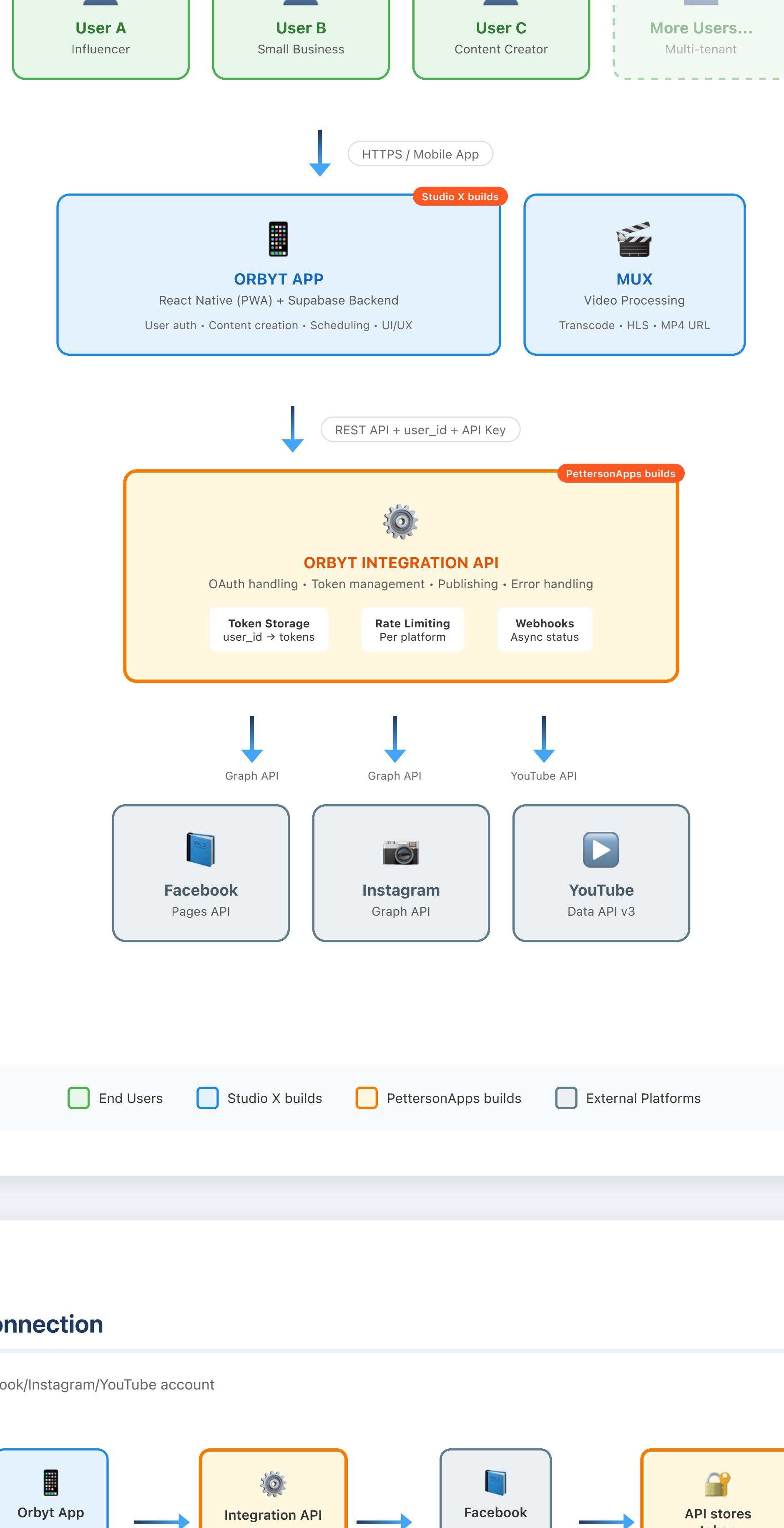


Orbyt System Architecture

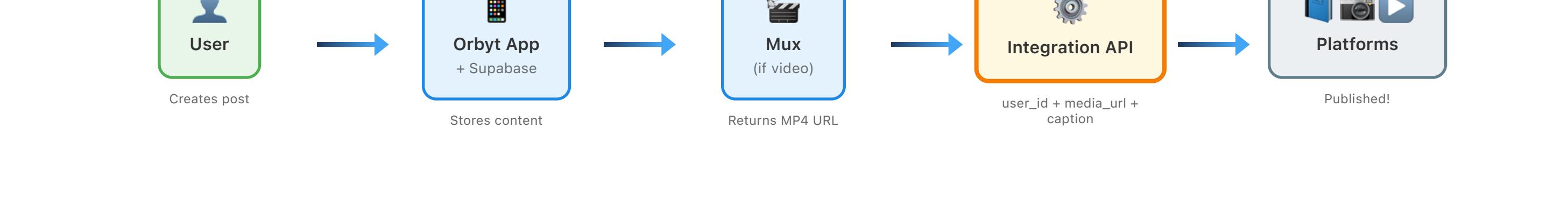
Technical Overview for PettersonApps Integration API Development

System Overview



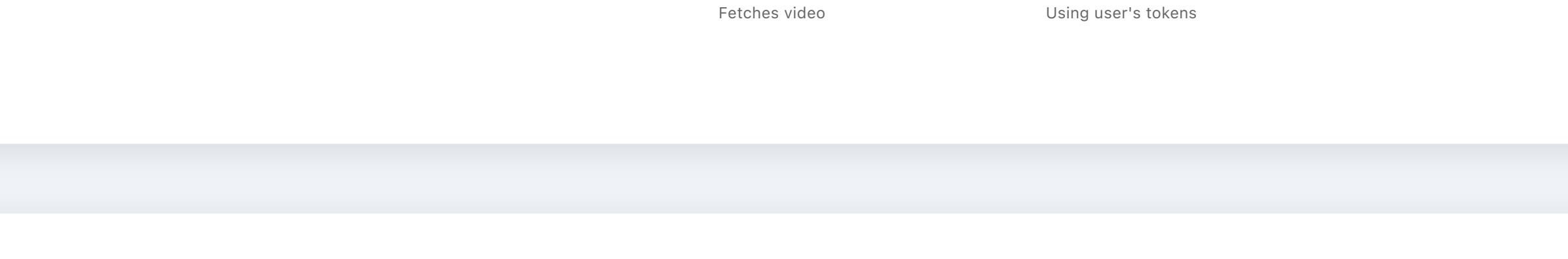
Data Flow: OAuth Connection

When a user connects their Facebook/Instagram/Youtube account



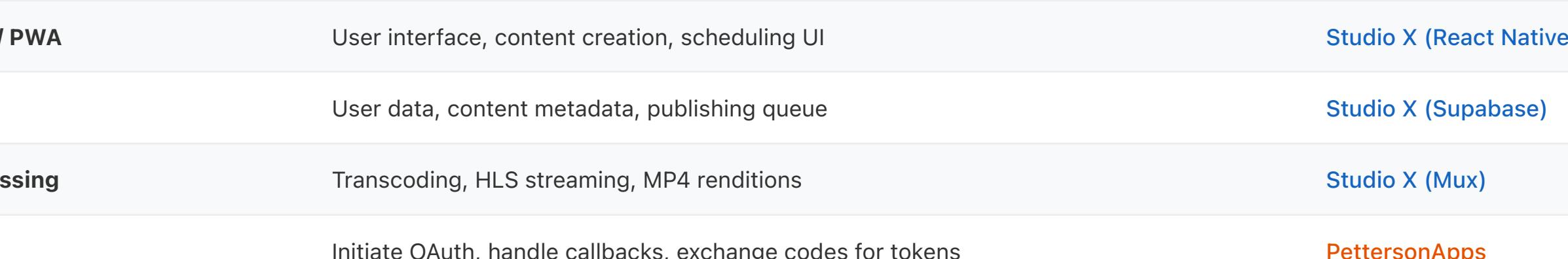
Data Flow: Content Publishing

When a user publishes an image or video to their connected accounts



Data Flow: Video from Mux URL

Detailed flow showing how video URLs from Mux are processed



Responsibility Matrix

Who is responsible for what in the Orbyt system

Component	Responsibility	Owner
User Authentication	User signup, login, password reset, session management	Studio X (Supabase Auth)
Mobile App / PWA	User interface, content creation, scheduling UI	Studio X (React Native)
Database	User data, content metadata, publishing queue	Studio X (Supabase)
Video Processing	Transcoding, HLS streaming, MP4 renditions	Studio X (Mux)
OAuth Flow	Initiate OAuth, handle callbacks, exchange codes for tokens	PettersonApps
Token Storage	Securely store access/refresh tokens per user	PettersonApps
Token Refresh	Automatically refresh tokens before expiry (where supported)	PettersonApps
Publishing Logic	Upload media to Facebook, Instagram, YouTube APIs	PettersonApps
Video from URL	Download from Mux URL and upload to platforms	PettersonApps
Rate Limit Handling	Respect platform rate limits, implement retry logic	PettersonApps
Error Handling	Clear error codes, retryable flags, re-auth indicators	PettersonApps
API Documentation	TypeScript types, endpoint docs, error catalog	PettersonApps
Platform API Credentials	Meta App ID/Secret, Google API credentials	Client (Amity Net AS)

Key Integration Points

Orbyt → Integration API

- REST API over HTTPS
- Authentication via API Key (header)
- All requests include user_id
- JSON request/response format

Integration API → Platforms

- Meta Graph API (Facebook, Instagram)
- YouTube Data API v3
- OAuth 2.0 tokens per user
- Platform-specific rate limits

Async Operations

- Video uploads are async
- Webhook callbacks for status
- Polling endpoint as fallback
- Job IDs for tracking