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# 🚀 START HERE - Video Analytics Project

**Welcome!** This repository is now organized for easy navigation by all team roles.

## 🎯 Quick Start

### **Step 1: Find Your Role**

| **I am a…** | **Read This First** | **Time** |
| --- | --- | --- |
| 👔 Executive / Stakeholder | [Executive Summary](01_EXECUTIVE_SUMMARY/executive_summary.md) | 10 min |
| 🎯 Product Owner | [Executive Summary](01_EXECUTIVE_SUMMARY/executive_summary.md) → [Scenarios](02_BUSINESS_ANALYSIS/VIDEO_TRACKING_SCENARIOS_GUIDE.md) | 50 min |
| 📊 Business Analyst | [Scenarios Guide](02_BUSINESS_ANALYSIS/VIDEO_TRACKING_SCENARIOS_GUIDE.md) | 90 min |
| 🏃 Scrum Master | <INDEX.md> → [Executive Summary](01_EXECUTIVE_SUMMARY/executive_summary.md) | 60 min |
| 👨‍💻 Developer | [Getting Started](05_REFERENCE/GETTING_STARTED.md) | 30 min |
| 🧪 Tester / QA | [Testing Guide](04_TESTING/README.md) → [Scenarios](02_BUSINESS_ANALYSIS/VIDEO_TRACKING_SCENARIOS_GUIDE.md) | 90 min |

### **Step 2: Explore the Structure**

📁 VideoAnalytics/  
│  
├── 📘 INDEX.md ⭐ Complete navigation guide  
├── 📄 README.md Project overview  
│  
├── 📁 01\_EXECUTIVE\_SUMMARY/ For decision makers  
├── 📁 02\_BUSINESS\_ANALYSIS/ Requirements & scenarios  
├── 📁 03\_DEVELOPMENT/ Code & implementation  
├── 📁 04\_TESTING/ Test specification  
└── 📁 05\_REFERENCE/ Technical guides

## 📚 Key Documents

### **For Understanding the Project:**

* [**INDEX.md**](INDEX.md) - Role-based navigation (5 min)
* [**REPOSITORY\_GUIDE.md**](REPOSITORY_GUIDE.md) - How this repo is organized (10 min)

### **For Business Context:**

* [**Executive Summary**](01_EXECUTIVE_SUMMARY/executive_summary.md) - Business case, ROI, timeline (10 min)
* [**Scenarios Guide**](02_BUSINESS_ANALYSIS/VIDEO_TRACKING_SCENARIOS_GUIDE.md) - Complete requirements (90 min)

### **For Implementation:**

* [**Getting Started**](05_REFERENCE/GETTING_STARTED.md) - Setup guide (30 min)
* [**Main Code**](03_DEVELOPMENT/databricks_video_aggregation.py) - Implementation

### **For Testing:**

* [**Testing Guide**](04_TESTING/README.md) - Test specification (10 min)
* [**Scenarios**](02_BUSINESS_ANALYSIS/VIDEO_TRACKING_SCENARIOS_GUIDE.md) - Test cases (90 min)

## 🎯 What This Project Does

**Transforms this:**

❌ Raw Events (many rows):  
user\_123 | video\_1 | play | 0s  
user\_123 | video\_1 | pause | 30s  
user\_123 | video\_1 | resume | 30s  
...

**Into this:**

✅ Aggregated Metrics (one row):  
user\_123 | video\_1 | 130s watched | 43% completion | High engagement

## ⏱️ Time to Productivity

| **Role** | **Reading Time** | **Implementation Time** | **Total** |
| --- | --- | --- | --- |
| Executive | 10 min | - | 10 min |
| Product Owner | 50 min | - | 50 min |
| Business Analyst | 90 min | - | 90 min |
| Scrum Master | 60 min | - | 60 min |
| Developer | 30 min | 90 min | 2 hours |
| Tester | 90 min | 120 min | 3.5 hours |

## 🗺️ Not Sure Where to Start?

→ **Open** [**INDEX.md**](INDEX.md) - Complete role-based navigation

## ✨ Recent Changes

**Latest Update: 2025-10-06** - ✅ Reorganized into workflow-based structure - ✅ Added role-based navigation (INDEX.md) - ✅ Created comprehensive scenarios guide - ✅ Added testing documentation - ✅ Updated all documentation with clear paths

See <REORGANIZATION_SUMMARY.md> for details.

## 🎓 Quick Tips

### **For Executives:**

Just read the [Executive Summary](01_EXECUTIVE_SUMMARY/executive_summary.md) - you’re done in 10 minutes!

### **For Business Analysts:**

The [Scenarios Guide](02_BUSINESS_ANALYSIS/VIDEO_TRACKING_SCENARIOS_GUIDE.md) is your requirements document - all 10 scenarios explained with examples!

### **For Developers:**

Follow [Getting Started](05_REFERENCE/GETTING_STARTED.md) step-by-step. You’ll have working code in 30 minutes.

### **For Testers:**

Use the [Scenarios Guide](02_BUSINESS_ANALYSIS/VIDEO_TRACKING_SCENARIOS_GUIDE.md) as your test specification - each scenario is a test case!

## 🚀 Ready?

**→ Open** [**INDEX.md**](INDEX.md) **to begin your journey!**

*Made with 💡 for better team collaboration*