🔥 FINAL ASSIGNMENT — UML DIAGRAMS DISTRIBUTED TO 5 MEMBERS

Below is a **balanced distribution**, ensuring every member works on diagrams relevant to *their subsystem*.

👤 Member 1 — Scraping, Data Ingestion & Source Management

(Aligned with proposal responsibilities: scraping, connectors, ingestion engine)

✅ Assigned UML Diagrams:

1. **Use Case Diagram – Scraping & Source Management**
2. **Component Diagram – Scraper Engine + Cloud Ingestion Module**
3. **Class Diagram Section – source, source_link, organization_source, raw_review**
4. **Sequence Diagram – Scraping Workflow**
   (Scraper → Cloud API → raw_review → processing)
5. **Activity Diagram – Scraper Job Execution Flow**

👤 Member 2 — AI/ML, NLP Pipeline, Embedding & RAG Engine

(Proposal includes AI inference, NLP engine, embeddings, pipelines)

✅ Assigned UML Diagrams:

1. **Use Case Diagram – AI Processing & Insights Generation**
2. **Component Diagram – AI Pipeline (MiniLM, Embedding Engine, RAG, LLM Gateway)**
3. **Class Diagram Section – processed_review, review_analysis, embedding_job, knowledgebase_item, entity**
4. **Sequence Diagram – AI Reply Generation Flow**
5. **Activity Diagram – AI Pipeline (Classify → Embed → Retrieve → Generate → Store)**

👤 Member 3 — Competitor & Domain Analysis, Insight Analytics

(Proposal: domain comparisons, competitor evaluations, analytics UI)

✅ Assigned UML Diagrams:

1. **Use Case Diagram – Competitor Management & Domain Analytics**
2. **Component Diagram – Analytics Engine + Cache Layer**
3. **Class Diagram Section – domain, competitor tables, analytics-related entities**

4. **Sequence Diagram – Competitor Comparison Flow**
5. **Activity Diagram – Analytics Aggregation Process**

👤 Member 4 — Reviews Module, AI Replies, Insights Dashboard

(Proposal: core customer-facing module – reviews, reply generation, insights)

✓ **Assigned UML Diagrams:**

1. **Use Case Diagram – Reviews & AI Reply Editor**
2. **Component Diagram – Review Module + UI + backend API**
3. **Class Diagram Section – review_category, review_type, processed_review_review_type**
4. **Sequence Diagram – Review Detail View + AI Reply Integration**
5. **Activity Diagram – Review Filter + Detail View Flow**

👤 Member 5 — Authentication, User/Organization Management, Admin System

(Proposal: User/org settings, admin console, RBAC)

✓ **Assigned UML Diagrams:**

1. **Use Case Diagram – Authentication + User & Organization + Admin**
2. **Component Diagram – Auth System + Admin Backend/Frontend**
3. **Class Diagram Section – tenant, plan, group, group_tenant, organization**
4. **Sequence Diagram – Tenant Signup → Add Organization → Dashboard**
5. **Activity Diagram – Organization & Group Assignment Workflow**