broker/

├── discovery.go // Service discovery and registration

├── communication.go // Inter-service communication

├── loadbalancer.go // Load balancing mechanisms

├── circuitbreaker.go // Fault tolerance

├── health.go // Health checks

├── broker.go // Entry point for broker package

├── types.go // Shared types and interfaces

### ****How to Use All 7 Files Together?****

Here’s how each file integrates into a real-world application:

1. **broker.go**: Used to initialize the broker and manage the main logic.
2. **types.go**: Defines the structure of services and interfaces.
3. **health.go**: Automatically monitors registered services.
4. **circuitbreaker.go**: Ensures fault tolerance for inter-service communication.
5. **loadbalancer.go**: Distributes traffic across service instances.
6. **logger.go**: Logs all important broker events for debugging and auditing.
7. **middleware.go**: Adds reusable logic (e.g., authentication) to service requests.