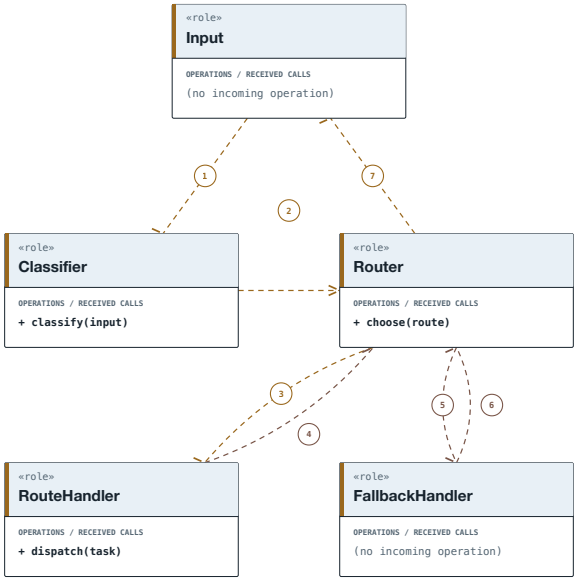
W02 Routing

Workflow / UML CLASS VIEW / ANALYTICAL MODEL

Select a specialized path for an input.

UML CLASS VIEW

dashed arrow: call dependency · brown: return/failure · analytical, not an observed trace



POINTCUT / PATTERN INTERFACE

CONTEXT	Multiple specialized agent or tool paths are available.
TRIGGER	New input must be sent to a destination.
STRUCTURE	Route schema, classifier or rules, dispatch result, and unsupported case.
EFFECT	One route is selected and its decision is attributable to input evidence.

CONTRACT / REQUIRED BEHAVIOR

REQUIRES	Routes have declared capabilities and selection criteria.
ENSURES	The selected route can handle the input or returns unsupported.
INVARIANT	Dispatch never loses the original request or silently invokes multiple exclusive routes.
VIOLATION	Classifier error or ambiguous route has deterministic fallback or escalation.

RELATIONSHIPS / ANALYTICAL CALLS

number · caller → callee · message

1 Input → Classifier classify(input)
2 Classifier → Router choose(route)
3 Router → RouteHandler dispatch(task)
4 RouteHandler ↩ Router return(result)
5 Router ↩ FallbackHandler handle(miss)
6 FallbackHandler ↩ Router retry_or_default()
7 Router → Input return(result)

VARIATION / TEST / NEGATIVE CONTROL

VARIATION	LLM router, rules, handoff tool, nested graph, and default route.
TEST_OBLIGATION	Test each route, ambiguous input, unsupported input, and selection cost.
NEGATIVE_CONTROL	An if statement inside one prompt is not an observable routing contract.