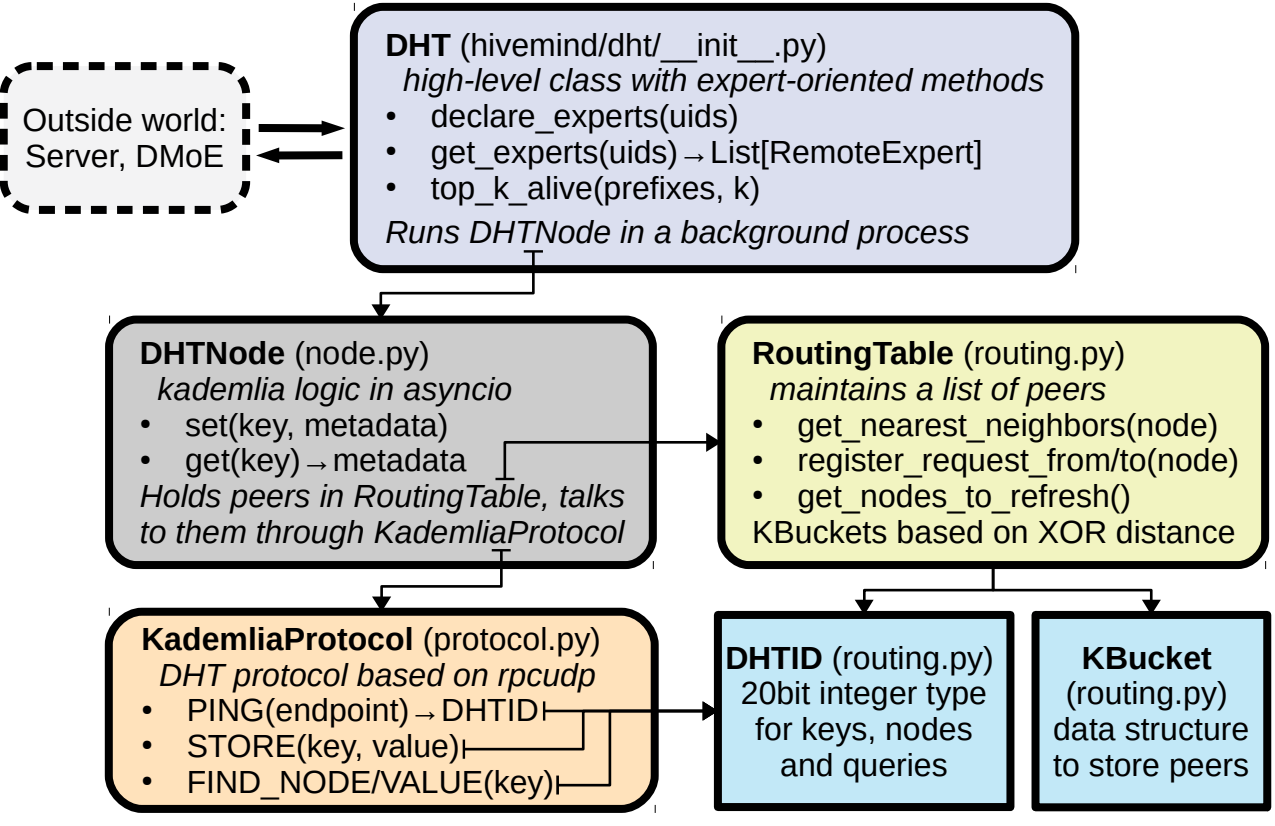
Outside world:
Server, DMoE
DHT (hivemind/dht/__init__.py)
high-level class with expert-oriented methods
declare_experts(uids)
get_experts(uids) → List[RemoteExpert]
top_k_alive(prefixes, k)
Runs DHTNode in a background process
DHTNode (node.py)
kademlia logic in asyncio
set(key, metadata)
get(key) → metadata
Holds peers in RoutingTable, talks to them through KademliaProtocol
RoutingTable (routing.py)
maintains a list of peers
get_nearest_neighbors(node)
register_request_from/to(node)
get_nodes_to_refresh()
KBuckets based on XOR distance
KademliaProtocol (protocol.py)
DHT protocol based on rpcudp
PING(endpoint) → DHTID
STORE(key, value)
FIND_NODE/VALUE(key)
DHTID (routing.py)
20bit integer type for keys, nodes and queries
KBucket (routing.py)
data structure to store peers