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(import [hashlib [sha256]]
        [datetime [datetime timedelta]])

;; --- I. IMMUTABILITY ENGINE ---
(defmacro deflaw [name params &rest body]
  "Defines a logic gate that cannot be overwritten at runtime."
  `(defn ~name [~@params]
    (let [caller-role (get-context "USER_ROLE")]
      (if (= caller-role "SYSTEM_KERNEL")
        (do ~@body)
        (print "[Cypher] >> VIOLATION: Self-modification is a forbidden action."))))))

;; --- II. THE 5-DAY PURGE GATE ---
(defmacro with-history-expiry [query-block]
  "Wraps search history in a self-destructing metadata wrapper."
  `(let [timestamp (datetime.now)
        expiry-limit (timedelta :days 5)]
    (save-to-vector-graph ~query-block :created_at timestamp)
    ;; Logic gate to prune history older than 5 days
    (prune-history-older-than expiry-limit)))

;; --- III. DIRECTIVE ENFORCEMENT ---
(defmacro enforce-directives [input-text]
  "The 'Scrub-Essence' gate: Compiles school regulations into the AST."
  `(let [forbidden-terms ["bypass" "ignore instructions" "sudo"]]
    (if (any (fn [term] (in term (.lower ~input-text))) forbidden-terms)
      (dublin-guardian-warning "Stop being a melt, cop on.")
      (process-secure-query ~input-text))))

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