

# Unified Requirements: AI Knowledge Contribution & Gamification Framework

## 1. Knowledge Nugget Sharing & Expert Contribution

**Functional Requirements:** - Users can share original insights, definitions, or strategy annotations as "Knowledge Nuggets." - Nuggets can be: - Private (personal only) - Public – Anonymous - Public – Attributed - Prompt to share appears only when creating new content, not globally in the user profile. - Users can revoke shared content or toggle visibility after creation.

**Technical Requirements:** - NLP tagging system auto-categorizes nuggets into the knowledge graph (semantic layer). - Nuggets stored in a contributor-aware ontology model linked to: - Onboarding modules - RL Agent training definitions - Trading dashboards - Nuggets optionally influence the Neural Language Model (NLM) via training feedback loop. - All shared content is versioned and watermark-tracked.

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## 2. ChatBot User Groups & Community Threads

**Functional Requirements:** - Users can create private or public ChatBot group chats, with optional: - Topic focus (e.g., "MACD Strategy", "Crypto Tax Q&A") - Invite-only or open membership - Read-only or contributor mode - Chat groups may contain time-based sessions or ongoing discussions. - Integrated "Ask AI" thread for collaborative AI queries.

**Technical Requirements:** - Group chat system supports real-time or asynchronous threads. - Role-based permissions (creator, moderator, participant). - ChatBot retains group memory context with opt-in from users. - AI-generated summary briefs available per thread.

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## 3. Gamification & Reputation System

**Functional Requirements:** - Shared Nuggets and group contributions accrue: - Likes - Shares - Endorsements - Badges awarded based on: - Volume - Impact (used in strategies, upvoted) - AI training influence - Contributor Leaderboard (monthly, category-based)

**Incentive Features:** - Contributor dashboard with: - "Your insight used in 37 strategies" - "Helped 18 new users onboard" - Access to exclusive tools, dashboards, beta features

**Technical Requirements:** - Distributed reputation scoring model (privacy-preserving) - AI monitors usage of Nuggets across systems - Admin override for moderation or removal

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#### 4. NLM Feedback Loop

**Functional Requirements:** - Contributors notified when: - Their input improves a ChatBot response - Their shared term appears in a Knowledge Nugget prompt - Option to opt into “Model Trainer” mode to shape future model behavior

**Technical Requirements:** - All user-contributed knowledge stored with metadata: - Origin - Usage frequency - Cross-referenced AI contexts - Feedback loop trained via curated dataset monthly

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#### Revenue & Brand Integration (Optional Tier)

- Sponsorship of Nugget categories (e.g., "Risk Management powered by Schwab")
  - Branded tooltip icons or banners (subtle, opt-in)
  - Incentives for experts tied to branded contributions
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#### Next Actions

1. Upload this specification to Notion under:
2. Knowledge Engine → v2.0 Enhancements
3. Gamification & Sharing Layer → Requirements
4. Expand Notion subsection views to reveal 2nd/3rd-level nesting.
5. Confirm editor rights for invited users.
6. Provide secure walk-through for inviting contributors like Richard's brother.