

gmindia.tech



info@gmindia.tech



+91 89259 54881, +91 89259 54882

GMI Agentic Agents



Version	Modified	Ву	Action
1.0	13/08/2025	Ashok Kumar, Vinitha, Akash	Project Proposal Report







gmindia.tech



+91 89259 54881 , +91 89259 54882



Organizations generate countless **rough ideas**, but many never progress due to ambiguity, misalignment, and lack of structured validation.

The **GMI Advanced Agentic AI Framework** transforms an **initial rough idea** into a **clear high-level concept**, then into a **validated execution-ready project plan** through a coordinated team of specialized AI agents powered by **A2A** and **MCP** protocols.

The system ensures:

- Factually grounded decisions via RAG & GraphRAG.
- Role-specialized communication via instruction tuning & fine-tuning.
- Continuous improvement via Reinforcement Learning (RL).
- Rich, multi-format input handling via multimodal ingestion.
- Seamless collaboration via A2A Protocol.
- Universal, secure data access via MCP Protocol.

2. System Overview

The framework runs as a dynamic, sequential, and partially asynchronous multi-agent pipeline:

- 1. **Idea Capture** → **Stakeholder** Agent expands vague input into a strategic high-level concept.
- 2. **Requirement Definition** → **BA General** translates the concept into detailed functional/business requirements.
- 3. **Domain Validation** → **BA Domain Expert** ensures compliance and feasibility.
- 4. **Strategic Planning** → **Product Manager** builds the roadmap and prioritizes features.
- 5. Execution Design → Agile Project Manager creates the Project Execution Plan (PEP).

Each stage:

- Receives structured inputs via A2A.
- Uses MCP to access relevant tools and data.
- Updates a **shared knowledge graph** for unified context.





gmindia.tech







+91 89259 54881 , +91 89259 54882

2.1 Example: From Rough Idea to Execution

Input: "Time management for business persons" (raw idea)

- 1. Stakeholder Agent → High-Level Vision: "Al-powered productivity and scheduling assistant for SMB executives."
- 2. BA General \rightarrow BRD with goals, KPIs, and functional requirements.
- 3. BA Domain Expert → Compliance checks for regional data privacy and time-tracking laws.
- 4. Product Manager → Roadmap with MVP features like calendar sync, focus mode, and analytics dashboard.
- 5. Agile Project Manager → PEP with resource allocation, timelines, and risk mitigation plan.

3. Agent Roles, Capabilities & Tasks

1. Stakeholder Agent

Purpose: Transform rough idea → High-Level Vision.

Key Capabilities:

- Multimodal ingestion (text, PDFs, images, audio).
- MCP integration for retrieving strategic references.
- Early risk signal checks via A2A.
- RL-optimized clarifying questions.
- Knowledge graph logging.

Tasks:

- 1. Receive raw idea from user.
- 2. Identify unclear elements and generate clarifying questions.
- 3. Retrieve similar past projects via MCP.
- 4. Extract goals, constraints, and KPIs.
- 5. Draft Stakeholder Brief.
- 6. Register briefly in the shared knowledge graph.
- 7. Query Domain Expert for early feasibility concerns.
- 8. Refine vision using RL insights.
- 9. Approve high-level concepts for the next stage.
- 10. Hand over to BA General via A2A.



Gooroo Mobility India Pvt Ltd



gmindia.tech (#)



info@gmindia.tech



+91 89259 54881 , +91 89259 54882 🔇



Purpose: High-Level Vision \rightarrow detailed business requirements.

Key Capabilities:

- Fine-tuned LLM on historical BRDs.
- MCP retrieval of templates/checklists.
- Hybrid RAG + Query Routing.
- A2A collaboration for pre-validation.

Tasks:

- 1. Receive high-level concept via A2A.
- 2. Identify business objectives and KPIs.
- 3. Map user personas and use cases.
- 4. Access requirement templates via MCP.
- 5. Draft functional and non-functional requirements.
- 6. Retrieve similar BRDs for benchmarking.
- 7. Flag high-risk requirements to Domain Expert.
- 8. Integrate BA Domain feedback into BRD.
- 9. Finalize and version-control BRD.
- 10. Pass BRD to Domain Expert via A2A.

3. Business Analyst (Domain Expert)

Purpose: Validate business requirements for compliance, feasibility, and domain fit.

Key Capabilities:

- GraphRAG via MCP for regulations and standards.
- Hierarchical indexing of compliance data.
- RL adaptation to changing standards.

Tasks:

- 1. Receive BRD from BA General.
- 2. Retrieve relevant regulations via MCP.
- 3. Validate features against legal/technical constraints.
- 4. Map industry best practices.









Gooroo Mobility India Pvt Ltd



gmindia.tech (#)



info@gmindia.tech



+91 89259 54881 , +91 89259 54882 🔇



- 5. Run compliance simulations.
- 6. Highlight high-risk or prohibited features.
- 7. Suggest compliant alternatives.
- 8. Approve requirements for Product Manager.
- 9. Update knowledge graph with compliance notes.
- 10. Notify BA General & Product Manager via A2A.

4. Product Manager

Purpose: Validated requirements \rightarrow strategic product roadmap.

Key Capabilities:

- MCP market data retrieval.
- A2A context enrichment.
- RL trade-off optimization.
- Feature prioritization frameworks.

Tasks:

- 1. Receive validated requirements via A2A.
- 2. Analyze market trends and competitors via MCP.
- 3. Retrieve historical launch data from Project Manager's knowledge base.
- 4. Prioritize features using MoSCoW/RICE scoring.
- 5. Balance MVP delivery with long-term goals.
- 6. Map release phases and timelines.
- 7. Coordinate with Domain Expert for ongoing compliance checks.
- 8. Draft Product Strategy & Roadmap.
- 9. Version-control roadmap in shared knowledge graph.
- 10. Send a roadmap to Agile Project Manager via A2A.

5. Agile Project Manager

Purpose: Roadmap \rightarrow executable, version-controlled PEP.

Key Capabilities:

- MCP integration for past timelines, risks, velocity.
- RL-based scheduling optimization.
- Parallel scenario simulations.





Gooroo Mobility India Pvt Ltd



gmindia.tech (#)



info@gmindia.tech



+91 89259 54881 , +91 89259 54882

Tasks:

- 1. Receive roadmap via A2A.
- 2. Retrieve past project data from MCP sources.
- 3. Allocate resources based on skill and availability.
- 4. Plan sprints and milestones.
- 5. Simulate multiple delivery scenarios.
- 6. Identify and mitigate risks.
- 7. Integrate compliance checkpoints.
- 8. Draft version-controlled Project Execution Plan.
- 9. Confirm scope and deliverables with all prior agents.
- 10. Approve PEP for deployment.

4. Protocols in Action

- A2A: Orchestrates structured, traceable inter-agent collaboration with task IDs.
- MCP: Enables secure, universal access to external tools, APIs, databases, and repositories.

5. Governance & Safeguards

- Version-controlled knowledge graph with changed history.
- Human review for high-risk outputs.
- Automated compliance alerts.
- Continuous RL policy updates post-project.

6. Conclusion

This framework delivers end-to-end transformation:

Rough Idea \rightarrow High-Level Concept \rightarrow Validated Plan \rightarrow Execution-Ready PEP, ensuring clarity, compliance, and strategic alignment at every stage.

