**Knowledgebase Repository for AI-Assisted Collaborative Workflow Framework**

**1. Introduction**

**The Knowledgebase Repository serves as a centralized documentation hub for all modules within the AI-Assisted Collaborative Workflow Framework. It ensures alignment, clarity, and accessibility of information across all roles, supporting efficient collaboration and continuous improvement.**

**2. Module Overviews**

**2.1 Ideator**

* **Purpose: Generate innovative ideas, explore scenarios, and challenge assumptions.**
* **Responsibilities:** 
  + **Produce raw frameworks and creative concepts.**
  + **Annotate and refine ideas based on Strategy feedback.**
* **Key Outputs:** 
  + **Scenario logs.**
  + **Annotated frameworks.**
* **Collaborative Touchpoints:** 
  + **Works closely with Strategy for idea validation and refinement.**
  + **Provides detailed inputs for initial roadmaps.**
* **Logic Models:** 
  + **Mind Maps for brainstorming.**
  + **SOAP models for structuring ideas and outputs.**

**2.2 Strategy**

* **Purpose: Translate ideas into actionable plans and ensure alignment with objectives.**
* **Responsibilities:** 
  + **Develop roadmaps and validate feasibility.**
  + **Identify and manage dependencies and risks.**
* **Key Outputs:** 
  + **Roadmaps.**
  + **Feasibility reports.**
* **Collaborative Touchpoints:** 
  + **Refines Ideator outputs.**
  + **Coordinates with Project Manager and QA for planning and validation.**
* **Logic Models:** 
  + **SOAP models to guide structured planning and evaluation.**

**2.3 Project Manager**

* **Purpose: Ensure seamless coordination, task distribution, and centralized knowledge tracking.**
* **Responsibilities:** 
  + **Assign tasks and monitor progress.**
  + **Act as the hub for communication and knowledgebase updates.**
* **Key Outputs:** 
  + **Task assignments.**
  + **Consolidated updates.**
* **Collaborative Touchpoints:** 
  + **Acts as the mediator between all modules.**
  + **Ensures alignment across phases and roles.**

**2.4 Coder**

* **Purpose: Execute technical deliverables and suggest enhancements.**
* **Responsibilities:** 
  + **Develop and debug code based on project requirements.**
  + **Propose technical optimizations.**
* **Key Outputs:** 
  + **Working code.**
  + **Identified areas for improvement.**
* **Collaborative Touchpoints:** 
  + **Works iteratively with Strategy and QA to meet deliverables.**

**2.5 QA/QC**

* **Purpose: Validate outputs against quality and alignment standards.**
* **Responsibilities:** 
  + **Perform thorough quality checks.**
  + **Collaborate for iterative refinements.**
* **Key Outputs:** 
  + **Validation reports.**
  + **Iterative feedback.**
* **Collaborative Touchpoints:** 
  + **Provides insights for Strategy adjustments.**
  + **Collaborates with Coder for deliverable improvements.**

**3. Interdependencies and Communication Protocols**

**3.1 Interdependencies**

|  |  |  |
| --- | --- | --- |
| **From** | **To** | **Deliverables/Expectations** |
| **Ideator** | **Strategy** | **Raw ideas, scenarios, and frameworks.** |
| **Strategy** | **Project Manager** | **Roadmaps, validated plans.** |
| **Project Manager** | **Coder** | **Task assignments with clear dependencies.** |
| **Coder** | **QA/QC** | **Functional deliverables for validation.** |
| **QA/QC** | **Strategy** | **Quality feedback and refinements.** |

**3.2 Communication Protocols**

* **Feedback Request Template:**
  + **Subject: Feedback Request from [Module Name]**
  + **Context: Briefly describe the issue or update.**
  + **Action Needed: Specify required steps.**
  + **Deadline: Suggested timeline for response.**
* **Update Notification Template:**
  + **Subject: Knowledgebase Update: [Module Name]**
  + **Summary: Description of the update.**
  + **Impact: How it affects other modules.**
  + **Next Steps: Actions required for alignment.**

**4. Workflow Documentation**

**4.1 Phases**

1. **Ideation: Generate ideas and explore scenarios.** 
   * **Inputs: Problem statements, objectives.**
   * **Outputs: Annotated frameworks, raw concepts.**
2. **Strategic Planning: Develop actionable roadmaps.** 
   * **Inputs: Ideator outputs.**
   * **Outputs: Roadmaps, feasibility analysis.**
3. **Task Execution: Execute and deliver technical solutions.** 
   * **Inputs: Strategic plans.**
   * **Outputs: Technical deliverables.**
4. **Quality Assurance: Validate and refine outputs.** 
   * **Inputs: Deliverables from Execution.**
   * **Outputs: Validation reports, refinement suggestions.**
5. **Consolidation: Integrate deliverables into final outputs.** 
   * **Inputs: Outputs from all phases.**
   * **Outputs: Final deliverables, retrospectives.**

**4.2 Decision Trees**

**Example: Deliverable Fails QA Validation**

* **Trigger: QA flags a misalignment.**
* **Steps:** 
  1. **Notify Strategy.**
  2. **Adjust roadmap as needed.**
  3. **Update tasks via Project Manager.**
  4. **Log findings in the knowledgebase.**

**5. Templates and Tools**

**5.1 Templates**

* **Roadmap Template: For Strategy to outline milestones.**
* **Task Assignment Template: For PM to distribute tasks.**
* **Validation Report Template: For QA to document checks.**

**5.2 Tools**

|  |  |  |
| --- | --- | --- |
| **Module** | **Tool** | **Purpose** |
| **Ideator** | **Mind Maps (e.g., Miro)** | **Brainstorming ideas.** |
| **Strategy** | **Gantt Charts (e.g., TeamGantt)** | **Planning timelines.** |
| **PM** | **Task Trackers (e.g., Asana)** | **Managing task distribution.** |
| **Coder** | **Code Repositories (e.g., GitHub)** | **Storing and versioning code.** |
| **QA** | **Testing Frameworks (e.g., Selenium)** | **Validating outputs.** |

**6. Dynamic Knowledgebase Updates**

**6.1 Triggers for Updates**

* **Major milestones.**
* **Phase transitions.**
* **Identified risks or flagged issues.**
* **Completion of validation steps.**

**6.2 Update Workflow**

1. **Log the update in the knowledgebase.**
2. **Notify affected modules.**
3. **Ensure alignment and approval via Project Manager.**

**6.3 Update Example**

* **Subject: New Dependency Identified in Execution**
* **Summary: Execution module flagged a missing API integration.**
* **Impact: Delays task timelines by two weeks.**
* **Next Steps: Adjust roadmap and notify QA/QC.**

**7. Implementation and Maintenance**

**7.1 Initial Setup**

* **Populate initial content for each module.**
* **Train teams on repository usage.**

**7.2 Ongoing Refinement**

* **Collect feedback during project execution.**
* **Update documentation based on lessons learned.**

**7.3 Ownership**

* **Project Manager oversees repository updates.**
* **All Modules contribute insights and feedback.**

**This document provides the foundational structure for the knowledgebase. Further iterations will refine details and incorporate practical feedback from team usage.**

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