Agentic Design Patterns

A Hands-On Guide to Building Intelligent Systems¹, Antonio Gulli Table of Contents - total 424 pages = 1+2+1+1+4+9+103+61+34+114+74+5+4 11 Dedication, 1 page Acknowledgment, 2 pages [final, last read done] Foreword, 1 page [final, last read done] A Thought Leader's Perspective: Power and Responsibility [final, last read done] Introduction, 4 pages [final, last read done] What makes an Al system an "agent"?, 9 pages [final, last read done] Part One, (Total: 103 pages) 1. Chapter 1: Prompt Chaining (code), 12 pages [final, last read done, code ok] 2. Chapter 2: Routing (code), 13 pages [fina, last read done, code ok] 3. Chapter 3: Parallelization (code), 15 pages [final, last read done, code okl] 4. Chapter 4: Reflection (code), 13 pages [final, last read done, code okl] 5. Chapter 5: Tool Use (code), 20 pages [final, last read done, code ok] 6. Chapter 6: Planning (code), 13 pages [final, last read done, code ok] 7. Chapter 7: Multi-Agent (code), 17 pages [final, last read done, code ok], 121 Part Two (Total: 61 pages) 8. Chapter 8: Memory Management (code), 21 pages [final, last read done, code ok] 9. Chapter 9: Learning and Adaptation (code), 12 pages [final, last read done, code ok] 10. Chapter 10: Model Context Protocol (MCP) (code), 16 pages [final, last read done, code ok] 11. Chapter 11: Goal Setting and Monitoring (code), 12 pages [final, last read don, code oe], 182 Part Three (Total: 34 pages) 12. Chapter 12: Exception Handling and Recovery (code), 8 pages [final, last read done, code ok] 13. Chapter 13: Human-in-the-Loop (code), 9 pages [final, last read done, code ok] 14. Chapter 14: Knowledge Retrieval (RAG) (code), 17 pages [final, last read done, code ok], 216 Part Four (Total: 114 pages) 15. Chapter 15: Inter-Agent Communication (A2A) (code), 15 pages [final, last read done, code ok] 16. Chapter 16: Resource-Aware Optimization (code), 15 pages [final, last read done, code ok] 17. Chapter 17: Reasoning Techniques (code), 24 pages [final, last read done, code ok] 18. Chapter 18: Guardrails/Safety Patterns (code), 19 pages [final, last read done, code ok] 19. Chapter 19: Evaluation and Monitoring (code), 18 pages [final, last read done, code ok] 20. Chapter 20: Prioritization (code), 10 pages [final, last read done, code ok] 21. Chapter 21: Exploration and Discovery (code), 13 pages [final, last read done, code ok], 330 Appendix (Total: 74 pages) 22. Appendix A: Advanced Prompting Techniques, 28 pages [final, last read done, code ok] 23. Appendix B - Al Agentic: From GUI to Real world environment, 6 pages [final, last read done, code ok] 24. Appendix C - Quick overview of Agentic Frameworks, 8 pages [final, last read done, code ok], 25. Appendix D - Building an Agent with AgentSpace (on-line only), 6 pages [final, last read done, code ok] 26. Appendix E - Al Agents on the CLI (online), 5 pages [final, last read done, code ok] 27. Appendix F - Under the Hood: An Inside Look at the Agents' Reasoning Engines, 14 pages [final, Ird, code ok], 28. Appendix G - Coding agents, 7 pages 406 Conclusion, 5 pages [final, last read done] Glossary, 4 pages [final, last read done] Index of Terms, 11 pages (Generated by Gemini. Reasoning step included as an agentic example) [final, Ird]

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