1. Open-Sourcing the Platform

One of the primary future objectives is to **release CodeCodez as an open-source framework**. By doing so, we aim to foster collaborative contributions from the developer and research community, encouraging innovation and community-driven improvements. An open-source release would also ensure transparency, wider testing across diverse use cases, and accelerated adoption.

2. Integration with Lightweight LLM Runtimes (Ollama)

To reduce the computational overhead and reliance on GPU-based hosting, a significant next step involves **deploying the CodeCodez agent system using Ollama** or similar local LLM inference tools. Ollama allows developers to run models like LLaMA and Mistral efficiently on personal machines or edge devices without expensive cloud infrastructure. This would:

- Lower the entry barrier for non-enterprise users.
- Support decentralized AI workflows.
- Enable offline and secure code generation for sensitive projects.

3. Security Auditing and Compliance Checks

A future goal includes embedding **automated security analysis and compliance validation agents** that ensure the generated code adheres to industry standards like OWASP, GDPR, and ISO norms, especially critical for enterprise or regulated domains.

4. Deployment Automation

We aim to support **CI/CD integration** by enabling agents to write Dockerfiles, Kubernetes configs, and GitHub Actions workflows. This would allow users to go from idea to production-ready deployment automatically.