

Deployment Phase Report

Report Period : September 20, 2024 to September 26, 2024

Project Title: AIKO (AI-powered Knowledge Organizer)

Project Manager: Dr. P. B. Jawade

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Executive Summary: The AIKO (AI-powered Knowledge Organizer) project has successfully completed its deployment phase. This report summarizes the deployment activities, challenges faced, and the current status of the AIKO system. The project has been deployed to production environments, with initial user feedback being positive. All core functionalities are operational, and the system is performing as expected under real-world conditions.

Current Task Progress:

Task Description	Deployment Phase
Scheduled Completion	October 21, 2024
Actual Completion	September 26, 2024
Status	Completed
Remarks	Successfully deployed ahead of schedule

Accomplishments:

- Successfully deployed AIKO to cloud production environments
- Implemented and tested CI/CD pipelines for automated deployment
- Provided training sessions for initial user groups
- Implemented monitoring and logging systems for real-time performance tracking

Challenges & Mitigations:

- Encountered initial scaling issues during peak load times
 - Implemented auto-scaling policies and optimized database queries to handle increased traffic
- Some users reported difficulty in navigating advanced features
 - Conducted training sessions to fully explore the AIKO ecosystem.
- Experienced a brief outage due to an unexpected surge in model response times
 - Implemented more robust load balancing and increased server capacity to prevent future incidents

Planned Activities for Next Phase:

- Monitor system performance and user feedback
- Plan and execute periodic security audits
- Develop and release minor feature updates based on initial user feedback
- Begin planning for AIKO 2.0, incorporating lessons learned from the initial deployment

Financial Summary:

Description	Budgeted Amount	Amount Spent This Phase	Total Expenditure
Hosting	₹1,300	₹228	₹1,300
Machine Learning	₹21,000	₹1,000	₹21,000

Risk Assessment:

As AIKO enters its operational phase, several risks require ongoing attention. The system's ability to handle unexpected traffic spikes needs continual monitoring and optimization to ensure consistent performance. Data security remains a top priority, with regular audits and updates necessary to protect against evolving cyber threats. User adoption and satisfaction are critical for the project's long-term success, necessitating close attention to feedback and swift resolution of any usability issues. Additionally, the potential for AI model drift over time poses a risk to the system's accuracy and effectiveness, requiring a strategy for periodic model retraining and validation.

Conclusions & Recommendations:

The AIKO project has successfully transitioned from development to deployment, meeting its core objectives and demonstrating strong potential for widespread adoption. The system's ability to efficiently organize and retrieve knowledge has been validated in real-world conditions, with initial user feedback indicating high satisfaction levels.

The project guide recommends implementation of a user feedback system, regular audits and comprehensive maintenance. The team recommends exploring potential integration with enterprise systems.

Approval:

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Project Guide

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