

Technical Risk Assessment

fastapi

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Overall Technical Risk Rating

MEDIUM

Key Findings

74.6% of core files have high single-developer concentration — critical bus factor risk.

9 circular dependencies — increases refactoring cost and integration risk.

Transaction Implications

The codebase is broadly production-viable but carries moderate technical risk requiring planned remediation. Architectural coupling is the main concern — circular dependencies will increase the cost of future integration or platform migration.

Engineering Stabilisation Estimate

CATEGORY	SEVERITY	ESTIMATED EFFORT
Knowledge Transfer	MEDIUM RISK	Ongoing (2-4 weeks structured program)
Architectural Remediation	MEDIUM RISK	1-2 weeks

Overall: 3 medium-severity items for the integration roadmap.

Estimates assume a senior developer familiar with the technology stack.

Tech Stack Summary

METRIC	VALUE
Primary language	Markdown
Total lines	357,222
Dependencies	5
Test file ratio	53.2%

Polaris Conclusion

This codebase presents moderate technical risk. Quality grade B and the findings above suggest manageable but non-trivial remediation. Standard post-acquisition engineering review is recommended.

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