

Error Handling & Recovery

Error Handling Philosophy

Core Principles

- **Fail gracefully:** Never expose users to raw error messages or system crashes
- **User-friendly:** Provide clear, actionable error messages in plain language
- **Secure:** Never reveal sensitive system information in error messages
- **Logged:** All errors logged for debugging and monitoring
- **Recoverable:** Provide users with clear next steps to resolve issues
- **Preventive:** Validate inputs and anticipate errors before they occur