Rithesh AI Pvt Ltd - Engineering Development Guidelines

1. Introduction

This document provides guidelines and best practices for the software development lifecycle within the Rithesh AI Pvt Ltd engineering department. Adherence to these guidelines ensures code quality, security, and maintainability.

2. Version Control

All project code must be managed using Git. The primary code repository is hosted on the company's internal GitHub Enterprise server. All work should be done on feature branches, not directly on the main or development branches.

3. Code Submission and Review Process

All new code, bug fixes, and features must be submitted via a Pull Request (PR). A PR must be reviewed and approved by at least one other engineer from the same team before it can be merged. The PR description should clearly explain the "what" and "why" of the changes.

4. Coding Style and Standards

Teams should adhere to a consistent coding style. For Python projects, we follow the PEP 8 style guide. For JavaScript and React projects, we use the Prettier code formatter to ensure consistency. Linters are configured in all project repositories and must pass before a PR can be merged.

5. Security Best Practices

Security is everyone's responsibility. Never commit secret keys, API tokens, or any other credentials directly into the codebase. Use the company's designated secrets management tool for storing all sensitive information. All dependencies should be regularly scanned for known vulnerabilities.