

Automations

Code quality

Testing

- Run tests
- Test coverage and validity
- Generate reports

Linting

- Automatic code formatting
- Static code quality analysis
- Static code style analysis
- Verify packaging correctness

Security and compliance

- Vulnerability scans
- Sign artifacts
- License checks

Collaboration

Documentation

- Prepare or create documentation
- Generate from source code
- Publish documentation

Social coding

- Pre-commit hooks
- Issues or PR bots
- Bot commits

Artifacts

Artifact creation

- Code compilation
- Build tasks, resources and configuration
- Packaging
- Dependency management

Release management

- Generate source and metadata artifacts
- Generate release notes
- Source control management
- Release tagging
- Publish artifact to registry
- Containerization

Development

Pipeline

- Optimization
- Build files configuration
- Build environment configuration