Contributing to Anwar Sales Ecosystem

Thank you for your interest in contributing to the Anwar Sales Ecosystem! This document provides guidelines for contributing to this project.

S How to Contribute

1. Report Issues

- Use GitHub Issues to report bugs or suggest features
- Provide clear descriptions and steps to reproduce
- Include relevant system information and error messages

2. Submit Code Changes

- Fork the repository
- Create a feature branch: git checkout -b feature/your-feature-name
- Make your changes following our coding standards
- Test thoroughly using our test suite
- Submit a pull request with a clear description

3. Code Standards

JavaScript Standards

- Use descriptive function and variable names
- Add JSDoc comments for all functions
- Follow Google Apps Script best practices
- Handle errors gracefully with try-catch blocks

Documentation Standards

- Update README.md for significant changes
- Document new functions in API reference
- Include user stories for new features
- Update workflow diagrams if applicable

4. Testing Requirements

- All new features must include tests
- Run existing test suite: runAllTests()
- Ensure 100% test coverage for new functions
- Test WhatsApp notifications in development environment

5. Commit Message Format

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```
<type>(<scope>): <subject>
  <body>
  <footer>
```

Types:

• feat: New feature

• fix: Bug fix

• docs: Documentation changes

• test: Adding or updating tests

• refactor: Code refactoring

• chore: Maintenance tasks

Example:

feat(order): Add automatic dispute escalation

- Implement automatic BDO notification when engineer unavailable
- Add configurable escalation timeouts
- Include fallback notification mechanisms
Closes #123

No Development Setup

Prerequisites

- Google Apps Script access
- Node.js (for local development tools)
- WhatsApp Business API credentials

Local Development

- 1. Clone the repository
- 2. Copy .env.example to .env and configure
- 3. Update config.js with your spreadsheet IDs
- 4. Run initial setup: setupProject()
- 5. Create test data: createTestData()

Testing

- Run all tests: runAllTests()
- Test specific modules: runVisitTests(), runOrderTests()
- Manual testing using Google Forms

Code Review Process

Review Criteria

- Code follows established patterns
- Proper error handling implemented
- Documentation updated
- Tests pass successfully
- Performance impact considered

Review Checklist

- Code is readable and well-documented
- Error handling is comprehensive
- Tests cover new functionality
- No security vulnerabilities
- Performance is acceptable
- Documentation is updated

S Bug Reports

Bug Report Template

```
**Bug Description:**
Clear description of the issue
**Steps to Reproduce:**
1. Step one
2. Step two
3. Step three
**Expected Behavior:**
What should happen
**Actual Behavior:**
What actually happens
**Environment:**
- Google Apps Script version
- Browser used
- Form/module affected
**Error Messages:**
Include any error messages or logs
```

Feature Requests

Feature Request Template

```
**Feature Description:**
Clear description of the proposed feature

**User Story:**
As a [user type], I want [goal] so that [benefit]

**Business Justification:**
Why this feature is needed

**Technical Considerations:**
Any technical requirements or constraints

**Acceptance Criteria:**
- [ ] Criterion 1
- [ ] Criterion 2
- [ ] Criterion 3
```

Security Guidelines

Security Best Practices

- Never commit API keys or credentials
- Use environment variables for sensitive data
- Validate all user inputs
- Implement proper access controls
- Follow Google Apps Script security guidelines

Reporting Security Issues

- DO NOT create public issues for security vulnerabilities
- Email security issues to: [security@anwarsales.com]
- Include detailed description and reproduction steps
- Allow reasonable time for response before disclosure

Resources

Documentation

- README.md Complete system documentation
- API Reference Function documentation
- User Stories Feature requirements

Development Tools

- Google Apps Script
- Google Sheets API
- WhatsApp Business API

Community

- GitHub Issues for questions and discussions
- Project Wiki for detailed documentation
- Regular contributor meetings (TBD)

& Roadmap

Short-term Goals

- Mobile app integration
- Advanced analytics dashboard
- Performance optimization
- Multi-language support

Long-term Vision

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- Al-powered recommendations
- Machine learning for demand prediction
- Integration with external ERP systems
- Advanced reporting and business intelligence

Thank you for contributing to the Anwar Sales Ecosystem! Together, we're building a better construction supply chain management system.