🏗️ Claude Desktop + Notion Community Repository Structure

📁 Repository Layout

```
claude-desktop-notion/
├── 📄 README.md                # Main project overview
├── 📄 CONTRIBUTING.md          # How to contribute
├── 📄 CODE_OF_CONDUCT.md       # Community guidelines
├── 📄 LICENSE                  # Open source license
├── 📄 CHANGELOG.md             # Version history
│
├── 📁 docs/                    # Documentation
│   ├── 📄 setup-guide.md       # Complete setup instructions
│   ├── 📄 troubleshooting.md   # Common issues & fixes
│   ├── 📄 mcp-servers.md       # MCP server comparison
│   ├── 📄 notion-api-reference.md # Notion API helpers
│   ├── 📄 workflows.md         # Example workflows
│   └── 📁 examples/            # Code examples
│       ├── 📁 configs/         # Config file examples
│       ├── 📁 scripts/         # Utility scripts
│       └── 📁 workflows/       # Workflow templates
│
├── 📁 fixes/                   # Community bug fixes
│   ├── 📄 README.md            # How to contribute fixes
│   ├── 📁 mcp-patches/         # MCP server patches
│   │   ├── 📁 relation-properties/ # Fix for relation bug
│   │   ├── 📁 timeout-issues/  # Connection timeout fixes
│   │   └── 📁 auth-problems/   # Authentication fixes
│   ├── 📁 claude-configs/      # Claude Desktop configs
│   └── 📁 notion-integrations/ # Notion integration helpers
│
├── 📁 tools/                   # Utility tools
│   ├── 📄 config-validator.js  # Validate Claude configs
│   ├── 📄 notion-tester.js     # Test Notion connections
│   ├── 📄 mcp-debugger.js      # Debug MCP issues
│   └── 📄 setup-wizard.js      # Interactive setup
│
├── 📁 templates/               # Templates & boilerplates
│   ├── 📁 bug-reports/         # Bug report templates
│   ├── 📁 feature-requests/    # Feature request templates
│   ├── 📁 notion-databases/    # Database schema templates
│   └── 📁 claude-prompts/      # Effective prompt templates
│
└── 📁 .github/                 # GitHub-specific files
    ├── 📁 ISSUE_TEMPLATE/      # Issue templates
    │   ├── 📄 bug_report.yml   # Bug report form
    │   ├── 📄 feature_request.yml # Feature request form
```

```
│   └── help_wanted.yml     # Help request form
├── workflows/              # GitHub Actions
│   ├── test-configs.yml    # Auto-test contributed configs
│   └── validate-fixes.yml  # Validate fix submissions
└── PULL_REQUEST_TEMPLATE.md # PR template
```

📄 Key Repository Files

README.md (Main Entry Point)

```markdown
# 🤖 Claude Desktop + Notion Community Hub

> Community-driven solutions, fixes, and workflows for Claude Desktop + Notion integration

## 🚀 Quick Start
- [Setup Guide](docs/setup-guide.md) - Get up and running in 10 minutes
- [Troubleshooting](docs/troubleshooting.md) - Fix common issues
- [Known Issues](https://github.com/your-org/claude-desktop-notion/issues) - Current bugs & status

## 🔧 What We Fix
- **MCP Server Issues** - Relation properties, timeouts, auth problems
- **Configuration Problems** - Claude Desktop setup, integration configs
- **Workflow Optimization** - Better prompts, database schemas, automation

## 🤝 Community
- **🐛 Found a Bug?** [Report it](https://github.com/your-org/claude-desktop-notion/issues/new/choose)
- **💡 Have a Fix?** [Submit a PR](CONTRIBUTING.md)
- **❓ Need Help?** [Ask the community](https://github.com/your-org/claude-desktop-notion/discussions)

## 📊 Status Dashboard
| Component | Status | Last Updated |
|---------|---------|---------|
| MCP Relation Bug | 🔴 Known Issue | [#12](https://github.com/your-org/claude-desktop-notion/issues/12) |
| Claude Desktop Config | 🟢 Working | July 2025 |
| Auth Setup | 🟡 Partial Fix | [#8](https://github.com/your-org/claude-desktop-notion/issues/8) |

## ⭐ Popular Fixes
- [Relation Property Patch](fixes/mcp-patches/relation-properties/)
- [Timeout Fix for Large Databases](fixes/mcp-patches/timeout-issues/)
- [Universal Claude Config](templates/claude-configs/universal-config.json)
```

CONTRIBUTING.md (How to Collaborate)

```markdown
# 🤝 Contributing to Claude Desktop + Notion

## 🎯 How to Help

### 🐛 Report Bugs
1. Check [existing issues](https://github.com/your-org/claude-desktop-notion/issues)
2. Use our [bug report template](https://github.com/your-org/claude-desktop-notion/issues/new/choose)
3. Include your config, error logs, and reproduction steps

### 💡 Submit Fixes
1. Fork the repository
2. Create a feature branch: `git checkout -b fix/relation-properties`
3. Add your fix to the appropriate `/fixes/` directory
4. Include documentation and test cases
5. Submit a pull request

### 📝 Improve Documentation
- Update setup guides with new findings
- Add workflow examples
- Improve troubleshooting docs

## 🏗️ Project Structure

### `/fixes/` Directory
Each fix should include:
- `README.md` - Problem description & solution
- `patch.js` or `patch.py` - The actual fix code
- `test.js` - Test cases
- `install.sh` - Installation script (if needed)

### Fix Template
```

```
fixes/mcp-patches/your-fix-name/
├── README.md        # Problem & solution description
├── fix.js           # The actual fix
├── test.js          # Test the fix works
├── install.sh       # How to apply the fix
└── examples/        # Before/after examples
```

```
├── before.json
└── after.json
```

```
## 🧪 Testing Your Fix
1. Test with your own setup
2. Include test cases in your PR
3. Verify it doesn't break existing functionality
4. Document any dependencies or requirements

## 📋 Pull Request Checklist
- [ ] Fix is in the correct `/fixes/` subdirectory
- [ ] README.md explains the problem and solution
- [ ] Test cases are included
- [ ] Documentation is updated
- [ ] No breaking changes to existing fixes
```

🏷️ GitHub Issue Templates

Bug Report Template (`.github/ISSUE_TEMPLATE/bug_report.yml`)

```yaml
```

```yaml
name: 🐛 Bug Report
description: Report a bug with Claude Desktop + Notion integration
title: "[BUG] "
labels: ["bug", "needs-triage"]
body:
  - type: dropdown
    id: component
    attributes:
      label: Component
      description: Which component has the issue?
      options:
        - MCP Server
        - Claude Desktop Config
        - Notion Integration
        - Authentication
        - Database Operations
        - Other
    validations:
      required: true

  - type: dropdown
    id: severity
    attributes:
      label: Severity
      options:
        - Critical (blocks all usage)
        - High (major feature broken)
        - Medium (workaround exists)
        - Low (minor issue)
    validations:
      required: true

  - type: textarea
    id: reproduction
    attributes:
      label: Steps to Reproduce
      description: Exact steps to recreate the issue
      placeholder: |
        1. Configure Claude Desktop with...
        2. Try to create a page with...
        3. See error...
    validations:
      required: true
```

```yaml
  - type: textarea
    id: expected
    attributes:
      label: Expected Behavior
      description: What should happen?
    validations:
      required: true

  - type: textarea
    id: actual
    attributes:
      label: Actual Behavior
      description: What actually happens?
    validations:
      required: true

  - type: textarea
    id: environment
    attributes:
      label: Environment
      description: Your setup details
      placeholder: |
        - OS: macOS 14.5
        - Claude Desktop: v1.2.3
        - MCP Server: @notionhq/notion-mcp-server
        - Notion API Version: 2022-06-28
    validations:
      required: true

  - type: textarea
    id: config
    attributes:
      label: Configuration
      description: Your claude_desktop_config.json (remove sensitive tokens)
      render: json

  - type: textarea
    id: logs
    attributes:
      label: Error Logs
      description: Any error messages or logs
      render: text
```

🤖 GitHub Actions Workflow

Auto-Test Configs (`.github/workflows/test-configs.yml`)

```yaml
name: Test Claude Configs

on:
  pull_request:
    paths:
      - 'templates/claude-configs/**'
      - 'fixes/claude-configs/**'

jobs:
  validate-configs:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v3

      - name: Setup Node.js
        uses: actions/setup-node@v3
        with:
          node-version: '18'

      - name: Install dependencies
        run: npm install -g @anthropic-ai/claude-cli

      - name: Validate JSON configs
        run: |
          find . -name "*.json" -path "*/claude-configs/*" | xargs -I {} sh -c 'echo "Validating {}" && cat {} | jq .'

      - name: Test config structure
        run: node tools/config-validator.js
```

🏅 Community Recognition

Contributors Wall

```markdown
```

```
## 🌟 Contributors

### 🔧 Fix Contributors
- [@username1](https://github.com/username1) - Fixed relation properties bug
- [@username2](https://github.com/username2) - Improved auth setup
- [@username3](https://github.com/username3) - Created setup wizard

### 📝 Documentation Contributors
- [@docuser1](https://github.com/docuser1) - Comprehensive troubleshooting guide
- [@docuser2](https://github.com/docuser2) - Workflow templates

### 🧪 Testing Contributors
- [@tester1](https://github.com/tester1) - Validated fixes across platforms
- [@tester2](https://github.com/tester2) - Created test automation
```

🚀 Getting Started Guide

To set up this repository:

1. **Create the repo** on GitHub with this structure
2. **Set up issue templates** to standardize bug reports
3. **Configure GitHub Actions** for automated testing
4. **Create initial documentation** with setup guides
5. **Seed with known fixes** (like the relation property bug)
6. **Promote in community** (Discord, Reddit, Twitter)

🎯 Success Metrics

Track repository health:

- **Issues resolved** vs opened
- **Active contributors** per month
- **Fix success rate** (community feedback)
- **Documentation usage** (page views)
- **Community growth** (stars, forks, discussions)

This structure creates a collaborative space where everyone benefits from shared solutions!