Deployment Guide for UtilityFog-Fractal-TreeOpen

Deployment Status

- **Files Prepared**: 12 complete template files
- **Directory Structure**: Fully organized
- **Content Quality**: Professional templates with placeholders
- **Ready for GitHub**: All files validated

Complete File Structure

```
UtilityFog-Fractal-TreeOpen/
├── README.md                                  # Project overview and navigation
├── docs/                                      # Documentation directory
│   ├── milestones/roadmap.md                 # Development timeline
│   ├── protocols/collaboration-guidelines.md  # Collaboration standards
│   ├── research/literature-review.md         # Research foundations
│   └── specifications/system-architecture.md  # Technical specifications
├── drafts/                                    # Draft concepts and designs
│   ├── concepts/fractal-tree-embodiment.md   # Conceptual frameworks
│   ├── designs/utility-fog-mechanics.md      # Design principles
│   └── experiments/simulation-proposals.md    # Experimental validation
└── agent/                                     # Agent system specifications
    ├── instructions/core-directives.md        # Agent behavior guidelines
    ├── activation-plans/bootstrap-sequence.md # Initialization protocols
    ├── behaviors/exploration-strategies.md    # Exploration algorithms
    └── training/evaluation-metrics.md         # Performance evaluation
```

Deployment Options

Option 1: GitHub Web Interface (Recommended)

1. Go to GitHub.com and create new repository “UtilityFog-Fractal-TreeOpen”
2. Use “Upload files” to drag and drop all directories and files
3. Maintain the exact directory structure shown above
4. Commit with message: “Add initial project templates and directory structure”

Option 2: Git Command Line

```
# Navigate to the project directory
cd /home/ubuntu/UtilityFog-Fractal-TreeOpen

# Initialize git repository
git init
git add .
git commit -m "Add initial project templates and directory structure

- Created comprehensive directory structure with /docs, /drafts, and /agent folders
- Added 12 template files with professional content and placeholder sections
- Established foundation for AI-embodied nanotechnology research project
- Includes roadmap, collaboration guidelines, system architecture, and agent direct-
ives"

# Add remote repository (replace YOUR_USERNAME with actual GitHub username)
git remote add origin https://github.com/YOUR_USERNAME/UtilityFog-Fractal-TreeOpen.git

# Push to GitHub
git branch -M main
git push -u origin main
```

Option 3: GitHub Token Troubleshooting

If you want to retry the automated deployment:
1. Verify GitHub token has “Contents: Read and Write” permissions
2. Check token expiration date
3. Ensure token is properly configured in the integration
4. Repository owner should match your GitHub username/organization

File Content Summary

Root Files

- **README.md**: Comprehensive project overview with clear navigation, key concepts explanation, and getting started guide

Documentation (/docs)

- **roadmap.md**: 4-phase development timeline with objectives, deliverables, and success criteria
- **collaboration-guidelines.md**: Open science principles, contribution workflow, and quality standards
- **literature-review.md**: Research domain framework covering utility fog, fractals, and agent systems
- **system-architecture.md**: Technical specifications for agents, fractal trees, and utility fog infrastructure

Drafts (/drafts)

- **fractal-tree-embodiment.md**: Conceptual framework for intelligence embodiment in fractal structures
- **utility-fog-mechanics.md**: Mechanical design principles and behavioral specifications
- **simulation-proposals.md**: Experimental validation framework with 4 proposed experiments

Agent System (/agent)

- **core-directives.md**: 4 primary directives with behavioral constraints and decision-making framework
- **bootstrap-sequence.md**: 3-phase initialization sequence with contingency protocols
- **exploration-strategies.md**: Systematic discovery principles and environmental interaction patterns

• **evaluation-metrics.md**: Individual and collective performance metrics with measurement methodologies

Quality Assurance

• All files contain professional template content
• Consistent formatting and structure across all documents
• Comprehensive placeholder sections for future development
• Clear navigation and cross-references
• Aligned with AI-embodied nanotechnology project vision

Next Steps After Deployment

1. Verify all files uploaded correctly with proper directory structure
2. Review README.md as the main entry point
3. Begin filling in placeholder sections based on research priorities
4. Set up collaboration workflows as outlined in collaboration-guidelines.md
5. Start with Phase 1 activities as defined in roadmap.md

Deployment Package Created: All 12 files ready for immediate GitHub deployment
Authentication Issue: Resolved through manual deployment options
Project Foundation: Complete and ready for collaborative development