Todowa Enhanced - Complete Updated System v2.0

Your original Todowa system, now supercharged with advanced AI tool management!

What's New in This Version?

This is your **complete original Todowa system** with all the enhanced features seamlessly integrated:

Enhanced Features Added:

- **\ Enhanced Tool Registry** with performance monitoring
- **The Complete CRUD Operations** for tasks, reminders, categories
- in Advanced Agent Integration with smart suggestions
- Performance Analytics and health monitoring
- Auto-parameter Injection for seamless operations
- Comprehensive Test Suite for reliability

Your Original Files (Preserved):

- All your src/ agent system files
- All your prompts/ directory
- Your database_personal.py, database_silent.py, services.py
- Your app.py, config.py, and all other custom files

Your .git history and all settings

New Enhanced Files Added:

- enhanced_tools.py Enhanced tool registry with monitoring
- enhanced_ai_tools.py Complete CRUD operations
- enhanced_agent_tools_mixin.py
 Advanced agent integration
- enhanced_action_schema.md/.json Updated schemas
- migrate_tools.py Safe migration script (Windows-compatible)
- test_enhanced_tools.py
 Comprehensive test suite
- ai_tools.py
 Backward compatibility layer

Quick Start (2 Minutes)

1. Install New Dependencies

```
pip install -r requirements.txt
```

(croniter dependency already added to requirements.txt)

2. Run Migration (Optional)

```
# Preview changes (optional)
python migrate_tools.py --dry-run

# Apply enhancements (optional - files already integrated)
python migrate_tools.py
```

3. Test Everything Works

```
python test_enhanced_tools.py --verbose
```

4. Run Your Todowa System

```
python app.py
# or
python run.py
```

Integration Status

Backward Compatibility Maintained:

- · Your existing agents work unchanged
- All original functionality preserved
- Existing imports continue to work
- Database schema remains compatible

New Capabilities Available:

- Enhanced tool performance monitoring
- Smart task categorization and reminders
- · Advanced analytics and reporting
- Bulk operations and health checks

III Enhanced Database Schema

The system includes enhanced database support. If you want to use the new features fully, add these tables to your database:

```
-- Enhanced tasks table (optional - enhances existing
functionality)
CREATE TABLE IF NOT EXISTS tasks (
  id SERIAL PRIMARY KEY,
 user_id TEXT NOT NULL,
 title TEXT NOT NULL,
 description TEXT DEFAULT '',
 priority TEXT DEFAULT 'medium',
  status TEXT DEFAULT 'pending',
 category TEXT DEFAULT 'general',
 due_date DATE,
 created_at TIMESTAMP DEFAULT NOW(),
 updated_at TIMESTAMP DEFAULT NOW()
);
-- New reminders table
CREATE TABLE IF NOT EXISTS reminders (
 id SERIAL PRIMARY KEY,
 user_id TEXT NOT NULL,
 task_id INTEGER REFERENCES tasks(id),
 title TEXT NOT NULL,
 description TEXT DEFAULT '',
  remind_at TIMESTAMP NOT NULL,
 is_sent BOOLEAN DEFAULT FALSE,
 created_at TIMESTAMP DEFAULT NOW()
);
-- New categories table
CREATE TABLE IF NOT EXISTS categories (
 id SERIAL PRIMARY KEY,
 user_id TEXT NOT NULL,
 name TEXT NOT NULL,
 description TEXT DEFAULT '',
 color TEXT DEFAULT '#3B82F6',
```

```
created_at TIMESTAMP DEFAULT NOW()
);
```

X Usage Examples

Using Enhanced Features in Your Agents:

Enhanced Task Management:

```
# Create a task with smart categorization
result = execute_tool('create_task',
                     title='Doctor appointment booking',
                     priority='high')
# Automatically categorized as 'health'!
# Create reminder with auto-task creation
result = execute_tool('create_reminder',
                     title='Team meeting prep',
                     remind_at='2025-08-22T09:00:00Z')
# Task automatically created and linked!
```

Performance Monitoring

```
# Get analytics
analytics = execute_tool('get_task_analytics', days=7)
# Check system health
health = agent.health_check()
# View performance metrics
report = agent.get_tool_performance_report()
```

🐛 Troubleshooting

Common Issues:

- 1. **Import errors**: Ensure all files are in the root directory
- 2. **Database issues**: Check Supabase connection

3. **Missing dependencies**: Run pip install -r requirements.txt

Log Files:

- migration.log Migration process logs
- test_results.log Test execution logs

Need Help?

- Check docs_enhanced/ for detailed documentation
- Run tests: python test_enhanced_tools.py --verbose
- · View tool performance: Use the built-in analytics

You're All Set!

Your Todowa system is now enhanced with enterprise-grade features while maintaining full backward compatibility. All your existing functionality works exactly as before, but now you have access to:

- Advanced Analytics
- · in Smart Al Features
- Tenterprise Reliability
- Performance Monitoring
- Neveloper Tools

Start your enhanced Todowa system:

python app.py

Enjoy your supercharged AI agent system! 🚀