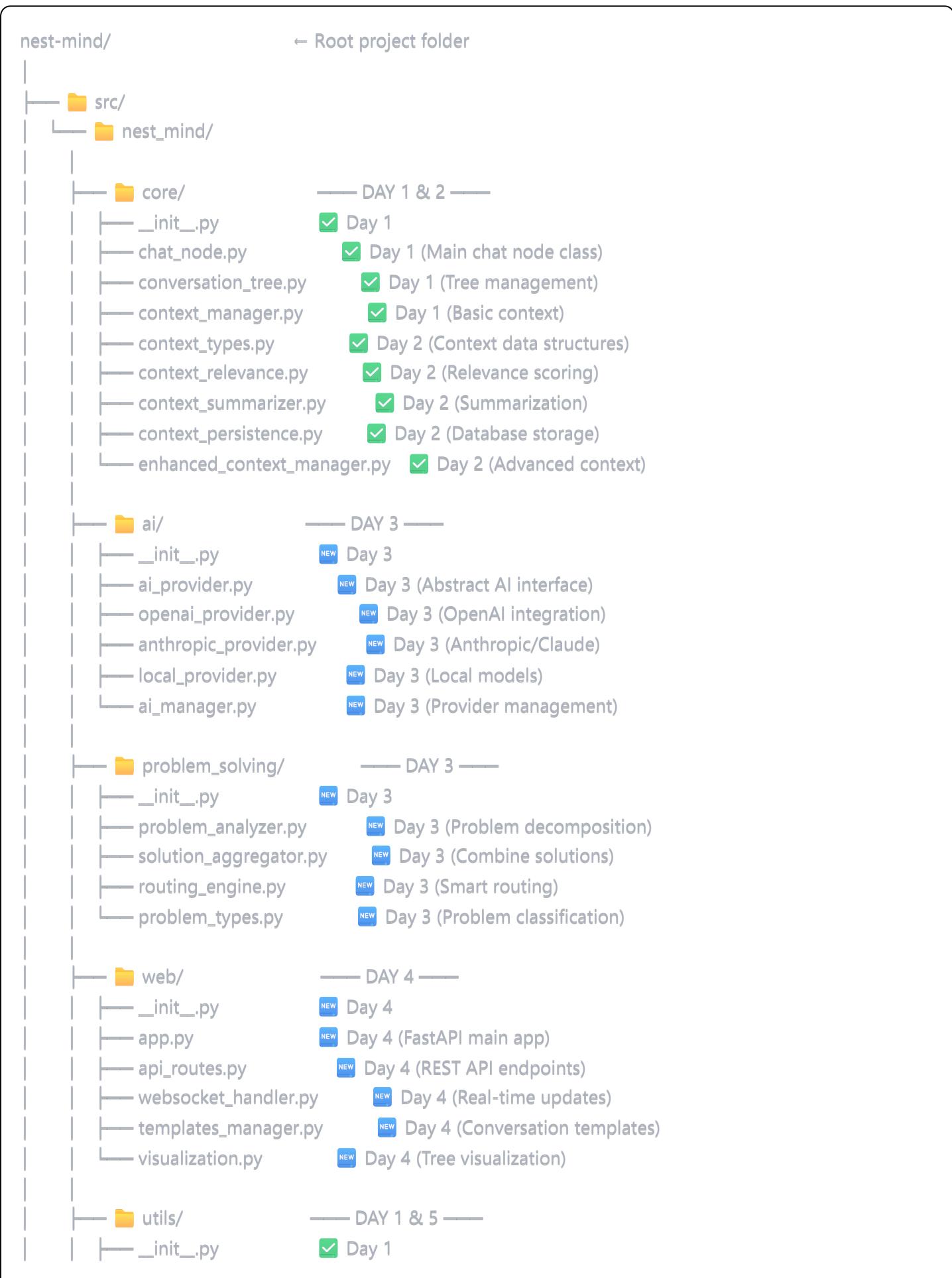


📁 Complete 6-Day File Structure & Locations

📁 Complete Project Structure (All Days)



logger.py	<input checked="" type="checkbox"/> Day 1 (Logging system)
cache.py	<input type="checkbox"/> NEW Day 5 (Caching utilities)
performance.py	<input type="checkbox"/> NEW Day 5 (Performance monitoring)
init.py	<input checked="" type="checkbox"/> Day 1 (Main package init)
config.py	<input checked="" type="checkbox"/> Day 1 (Configuration)
web/	———— DAY 4 (Frontend) ——
static/	
css/	
main.css	<input type="checkbox"/> NEW Day 4 (Main styles)
tree.css	<input type="checkbox"/> NEW Day 4 (Tree visualization)
js/	
main.js	<input type="checkbox"/> NEW Day 4 (Main JavaScript)
conversation_tree.js	<input type="checkbox"/> NEW Day 4 (Tree interactions)
websocket_client.js	<input type="checkbox"/> NEW Day 4 (Real-time updates)
templates/	
base.html	<input type="checkbox"/> NEW Day 4 (Base template)
index.html	<input type="checkbox"/> NEW Day 4 (Main page)
chat.html	<input type="checkbox"/> NEW Day 4 (Chat interface)
analytics.html	<input type="checkbox"/> NEW Day 4 (Analytics dashboard)
tests/	———— DAY 5 ——
unit/	
init.py	<input type="checkbox"/> NEW Day 5
test_chat_node.py	<input type="checkbox"/> NEW Day 5 (Test ChatNode)
test_conversation_tree.py	<input type="checkbox"/> NEW Day 5 (Test tree)
test_context_manager.py	<input type="checkbox"/> NEW Day 5 (Test context)
test_ai_providers.py	<input type="checkbox"/> NEW Day 5 (Test AI)
test_problem_solving.py	<input type="checkbox"/> NEW Day 5 (Test problem solving)
integration/	
init.py	<input type="checkbox"/> NEW Day 5
test_full_system.py	<input type="checkbox"/> NEW Day 5 (End-to-end tests)
test_api_endpoints.py	<input type="checkbox"/> NEW Day 5 (API tests)
test_websocket.py	<input type="checkbox"/> NEW Day 5 (WebSocket tests)
performance/	
init.py	<input type="checkbox"/> NEW Day 5
test_load.py	<input type="checkbox"/> NEW Day 5 (Load testing)
test_memory.py	<input type="checkbox"/> NEW Day 5 (Memory profiling)
benchmarks/	———— DAY 5 ——
performance_benchmark.py	<input type="checkbox"/> NEW Day 5 (Performance tests)
comparison_benchmark.py	<input type="checkbox"/> NEW Day 5 (Compare versions)

```
docs/
  api/
    index.md
    chat_node.md
    context_manager.md
    ai_providers.md
  guides/
    installation.md
    getting_started.md
    advanced_usage.md
    troubleshooting.md
  examples/
    basic_usage.md
    ai_integration.md
    web_deployment.md
  index.md
```

— DAY 6 —

- NEW Day 6 (API overview)
- NEW Day 6 (ChatNode API)
- NEW Day 6 (Context API)
- NEW Day 6 (AI providers API)

- NEW Day 6 (Installation guide)
- NEW Day 6 (Quick start)
- NEW Day 6 (Advanced features)
- NEW Day 6 (Common issues)

- NEW Day 6 (Basic examples)
- NEW Day 6 (AI examples)
- NEW Day 6 (Deployment examples)

NEW Day 6 (Main documentation)

```
deployment/
  docker/
    Dockerfile.dev
    Dockerfile.prod
    docker-compose.yml
```

— DAY 6 —

- NEW Day 6 (Development Docker)
- NEW Day 6 (Production Docker)
- NEW Day 6 (Docker Compose)

```
kubernetes/
  deployment.yaml
  service.yaml
```

- NEW Day 6 (K8s deployment)
- NEW Day 6 (K8s service)

```
data/
  context.db
  context_backup.json
  nest_mind.db
```

— AUTO-CREATED —

- ⌚ Auto (SQLite database)
- ⌚ Auto (JSON backup)
- ⌚ Auto (Main database)

```
logs/
  nestmind_YYYYMMDD.log
```

— AUTO-CREATED —

- ⌚ Auto (Daily logs)

```
venv/
  (Python virtual environment files)
```

— VIRTUAL ENV —

- ✓ Day 1

```
main.py
day2_demo.py
streamlit_app.py
day3_demo.py
web_app.py
```

- ✓ Day 1 (Day 1 demo)
- ✓ Day 2 (Day 2 demo)
- NEW Day 3 (Streamlit interface)
- NEW Day 3 (Day 3 CLI demo)
- NEW Day 4 (FastAPI web app)

└── test_basic.py	<input checked="" type="checkbox"/> Day 1 (Basic tests)
└── test_day2.py	<input checked="" type="checkbox"/> Day 2 (Day 2 tests)
└── test_day3.py	<input type="checkbox"/> NEW Day 3 (Day 3 tests)
└── comprehensive_test.py	<input checked="" type="checkbox"/> Day 1 (All tests)
─	
└── requirements.txt	<input checked="" type="checkbox"/> Day 1 (Dependencies)
└── pytest.ini	<input type="checkbox"/> NEW Day 5 (Pytest config)
└── setup.py	<input type="checkbox"/> NEW Day 6 (Package setup)
└── Dockerfile	<input type="checkbox"/> NEW Day 6 (Docker config)
└── docker-compose.yml	<input type="checkbox"/> NEW Day 6 (Docker Compose)
└── .gitignore	<input checked="" type="checkbox"/> Day 1 (Git ignore)
└── README.md	<input checked="" type="checkbox"/> Day 1 (Project readme)
└── LICENSE	<input type="checkbox"/> NEW Day 6 (License file)

📋 File Count by Day

Day 1: Foundation (11 files)

- `src/nest_mind/core/` - 4 files
- `src/nest_mind/utils/` - 2 files
- Root - 5 files

Day 2: Enhanced Context (5 files)

- `src/nest_mind/core/` - 4 new files
- Root - 1 demo file

NEW Day 3: AI Integration (11 files)

- `src/nest_mind/ai/` - 6 files
- `src/nest_mind/problem_solving/` - 5 files
- Root - 2 demo files

NEW Day 4: Web Interface (13 files)

- `src/nest_mind/web/` - 6 files
- `web/static/` - 5 files
- `web/templates/` - 4 files
- Root - 1 app file

NEW Day 5: Testing (15 files)

- `tests/unit/` - 6 files

- `tests/integration/` - 4 files
- `tests/performance/` - 3 files
- `benchmarks/` - 2 files
- Root - 2 config files

NEW Day 6: Documentation (20+ files)

- `docs/` - 12+ files
- `deployment/` - 5 files
- Root - 5 files

🎯 Quick Reference: Where to Create Files

Day 1 & 2 (Already Done ✅)

All files in `src\nest_mind\core/` and root directory

Day 3 (Current)

cmd

📁 Create these folders:

`src\nest_mind\ai\`

`src\nest_mind\problem_solving\`

📄 Create these files:

`src\nest_mind\ai\openai_provider.py`

`streamlit_app.py`

Day 4 (Web Interface)

cmd

📁 Create these folders:

`src\nest_mind\web\`

`web\static\css\`

`web\static\js\`

`web\templates\`

📄 Create these files:

`src\nest_mind\web\app.py`

`web\templates\index.html`

`web_app.py`

Day 5 (Testing)

cmd

📁 Create these folders:

tests\unit\
tests\integration\
tests\performance\
benchmarks\

📄 Create these files:

tests\unit\test_chat_node.py
pytest.ini

Day 6 (Documentation)

cmd

📁 Create these folders:

docs\api\
docs\guides\
docs\examples\
deployment\docker\

📄 Create these files:

Dockerfile
docker-compose.yml
setup.py

🚀 Quick Setup Commands for Each Day

Day 3 Setup:

cmd

```
mkdir src\nest_mind\ai  
mkdir src\nest_mind\problem_solving  
type nul > src\nest_mind\ai\__init__.py  
type nul > src\nest_mind\problem_solving\__init__.py
```

Day 4 Setup:

cmd

```
mkdir src\nest_mind\web  
mkdir web\static\css  
mkdir web\static\js  
mkdir web\templates  
type nul > src\nest_mind\web\_init__.py
```

Day 5 Setup:

```
cmd  
  
mkdir tests\unit  
mkdir tests\integration  
mkdir tests\performance  
mkdir benchmarks  
type nul > tests\_init__.py
```

Day 6 Setup:

```
cmd  
  
mkdir docs\api  
mkdir docs\guides  
mkdir docs\examples  
mkdir deployment\docker  
mkdir deployment\kubernetes
```

Total File Count

- Day 1: 11 files ✓
- Day 2: 5 files ✓
- Day 3: 11 files NEW
- Day 4: 13 files NEW
- Day 5: 15 files NEW
- Day 6: 20+ files NEW

Total: ~75+ files for complete Nest Mind system

Pro Tips

1. **Auto-created folders:** `data/` and `logs/` are created automatically when you run the app
2. **Virtual environment:** The `venv/` folder contains thousands of files but you never touch them

3. **Optional files:** Some Day 6 files (like Kubernetes) are optional based on deployment needs
4. **Testing files:** Can be added incrementally as you build features

This is your complete roadmap showing exactly where every file goes! 