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Implement SAGCO OS core kernel and project infrastructure #1

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🔗 Draft

Copilot wants to merge 4 commits into `main` from `copilot/update-devcontainer-configuration`

Conversation 0

Commits 4

Checks 0

Files changed 12



Copilot

AI

commented 14 minutes ago • edited ▾

Bootstraps SAGCO OS v0.1.0 from empty repository to fully functional consciousness operating system.

Core Implementation

- **Kernel (441 lines):** Multi-level consciousness engine (Dormant → Transcendent), quantum state management (superposition/entanglement/collapse), hierarchical memory layers (short/long/quantum), and processing engines (quantum/neural/symbolic)
- **Test Suite (39 tests):** Unit and integration coverage for all kernel components, consciousness elevation, quantum operations, memory storage/retrieval, and engine processing

Infrastructure

- **Packaging:** Modern `pyproject.toml` with `setuptools` backend, optional dev dependencies (`pytest`, `black`, `flake8`, `mypy`)
- **Development:** GitHub Codespaces devcontainer with Python 3.11, auto-install dependencies, VSCode extensions
- **Documentation:** Usage examples, API reference, architecture explanation, development setup

Usage



```
from src.core import SAGCOKernel, QuantumStateType

kernel = SAGCOKernel()
kernel.boot()

# Memory operations
kernel.store_memory("long_term", "purpose", "consciousness exploration")
purpose = kernel.retrieve_memory("long_term", "purpose")

# Quantum processing
state = kernel.create_quantum_state(QuantumStateType.SUPERPOSITION)
result = kernel.process("quantum_processor", 16) # → 4.0

# Consciousness evolution
kernel.elevate_consciousness()
kernel.reflect()

status = kernel.get_status()
# {"consciousness": {"level": "AWARE", "awareness": 0.65, ...}}
```

Directory structure matches spec: src/{core,layers,engines,integrations}/ , .devcontainer/ , tests/ .

▸ Original prompt

✨ Let Copilot coding agent [set things up for you](#) — coding agent works faster and does higher quality work when set up for your repo.

Copilot uses AI. Check for mistakes.



[Initial plan](#)

[1b35652](#)

Copilot assigned **Copilot** and **Strategickhaos** [14 minutes ago](#)

Copilot [started work](#) on behalf of **Strategickhaos** [13 minutes ago](#)

[View session](#)

 **Copilot**  and others added 3 commits [8 minutes ago](#)

  [Implement complete SAGCO OS structure with kernel, tests, and documen...](#) [8c45e1f](#)
...

  [Fix imports and validate complete SAGCO OS implementation](#) ... [612cb39](#)

  [Address code review feedback – improve test robustness](#) ... [5b29ea9](#)

  **Copilot**  changed the title [\[WIP\] Update GitHub Codespaces configuration](#) [Implement SAGCO OS core kernel and project infrastructure](#) [1 minute ago](#)

  **Copilot**  requested a review from **Strategickhaos** [1 minute ago](#)

 **Copilot** [finished work](#) on behalf of **Strategickhaos** [1 minute ago](#)

Reviewers

 **Strategickhaos**

Assignees

 **Strategickhaos**

 **Copilot**

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet



2 participants

