



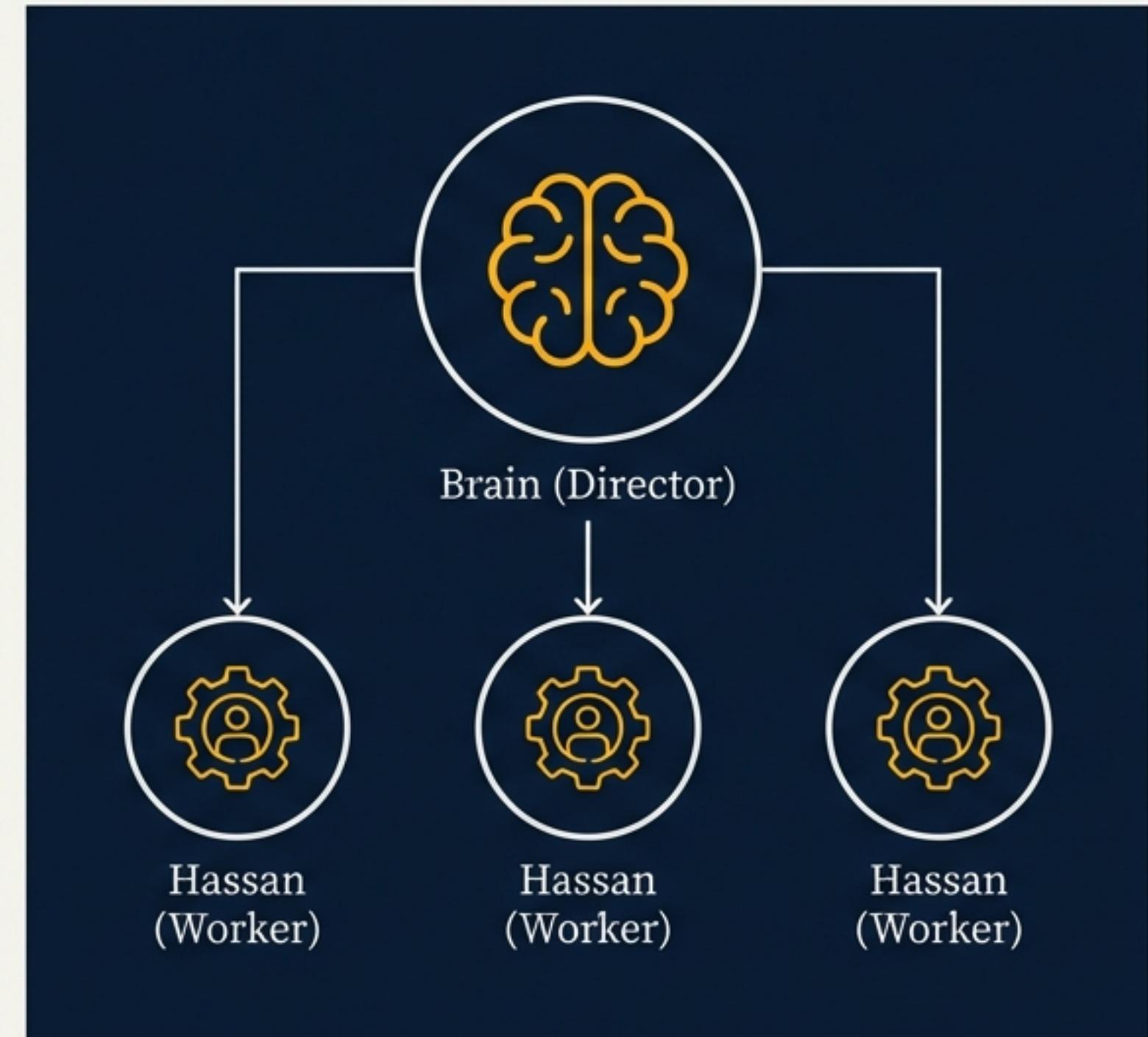
NightShift

The Autonomous Overlord.

This is my brain when I'm sleeping.

Your Project, Executed Autonomously.

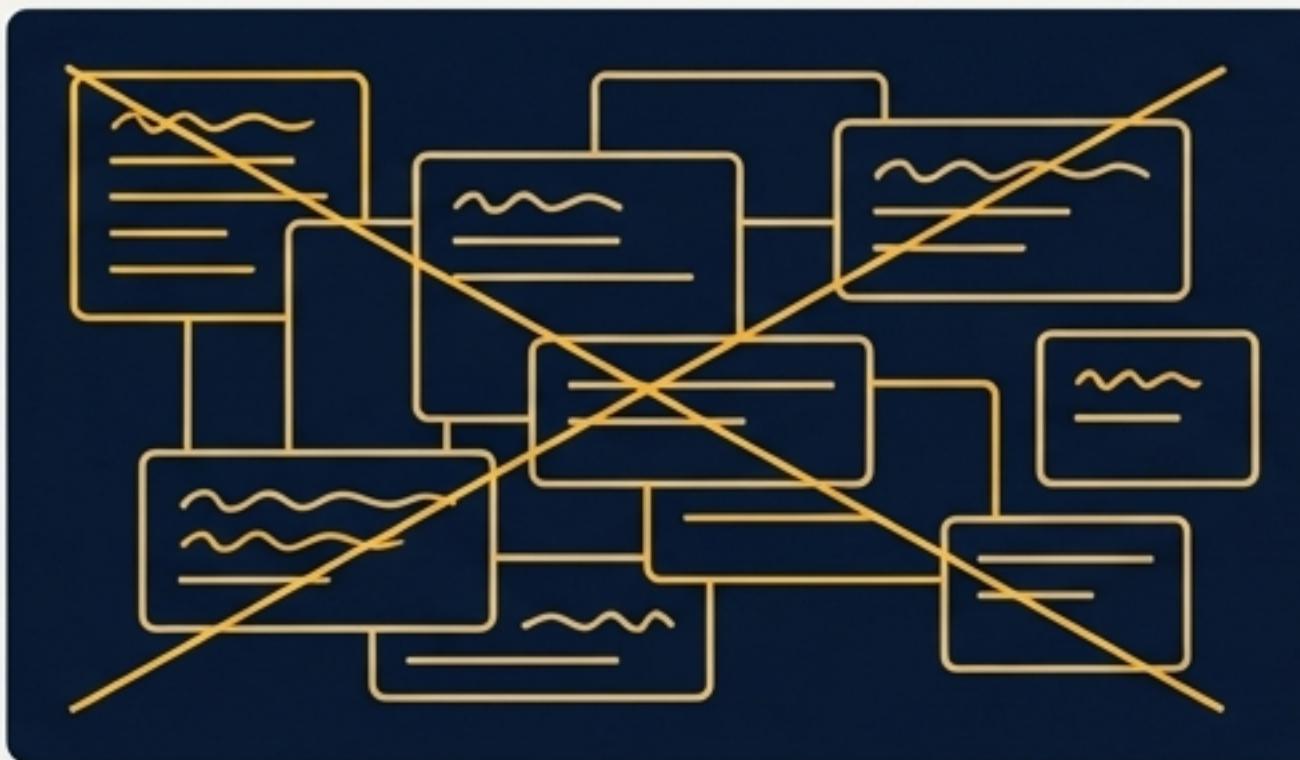
NightShift is an Autonomous Agent Orchestrator. It operates with a simple, powerful structure: a **Brain (Director)** that strategizes and **Hassan (Worker)** agents that execute tasks. Together, they collaborate to finish your projects while you're away.



The Mission is Your Dashboard.

Version 5.1 introduces a project-centric workflow. Forget disconnected task lists. You now manage a single `mission.yaml` file, a persistent, living dashboard that serves as the single source of truth for your entire project.

Disconnected Tasks



Living Dashboard



Your Project's Single Source of Truth.

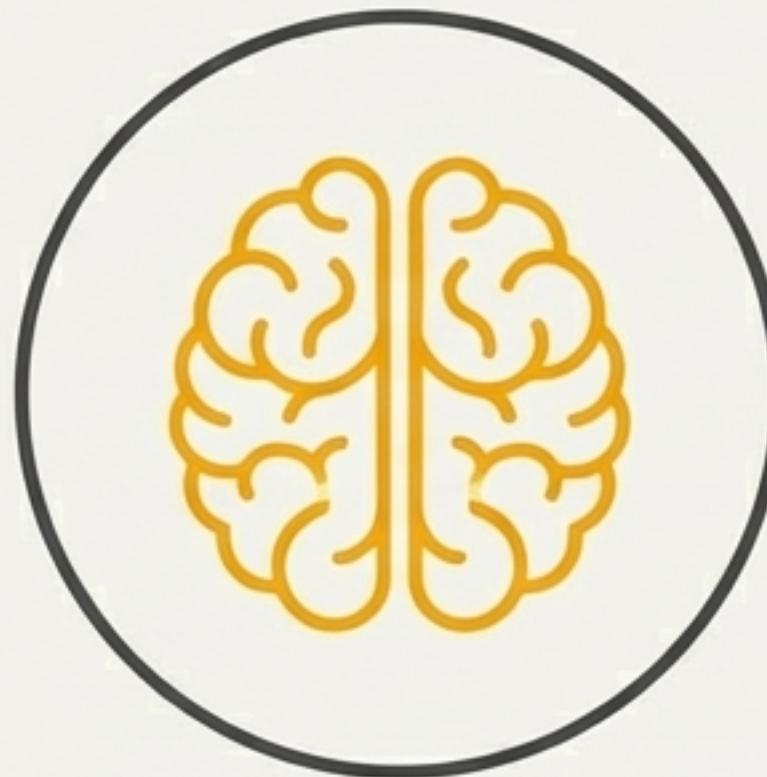
Real-Time State, Built Right In.

As NightShift works, it updates task statuses directly in your mission.yaml file. The mission file always reflects the current state, allowing you to stop and resume exactly where you left off.

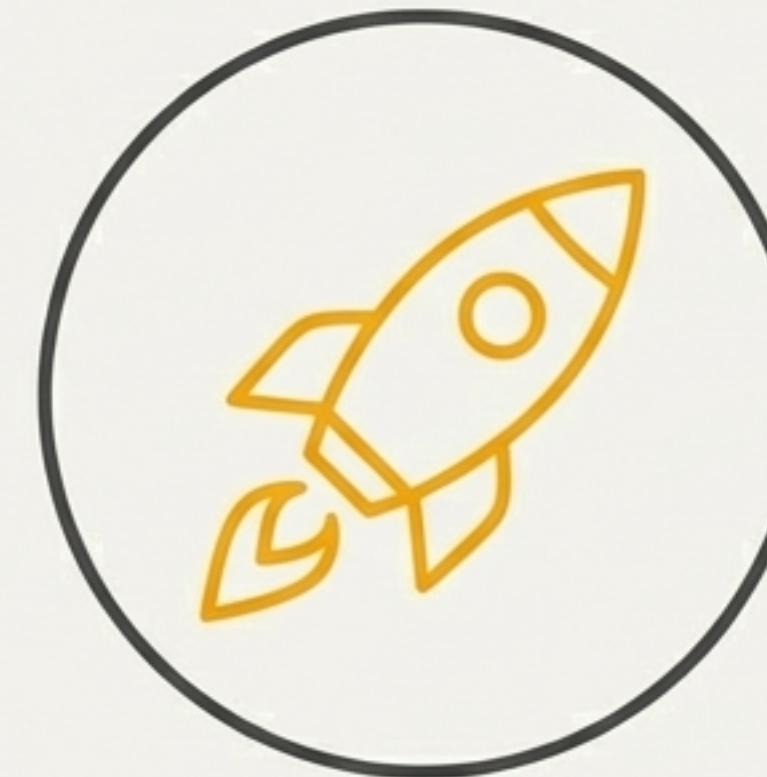
```
task:  
  - name: "Initial setup"  
    status: todo  
  
  task:  
    - name: "Initial setup"  
      status: in_progress  
  
  task:  
    - name: "Initial setup" ✓  
      status: done
```

The Pillars of True Autonomy.

Delivering on this promise requires more than just task execution. NightShift is built on three core principles: Intelligence, Efficiency, and Safety.



Intelligence



Efficiency



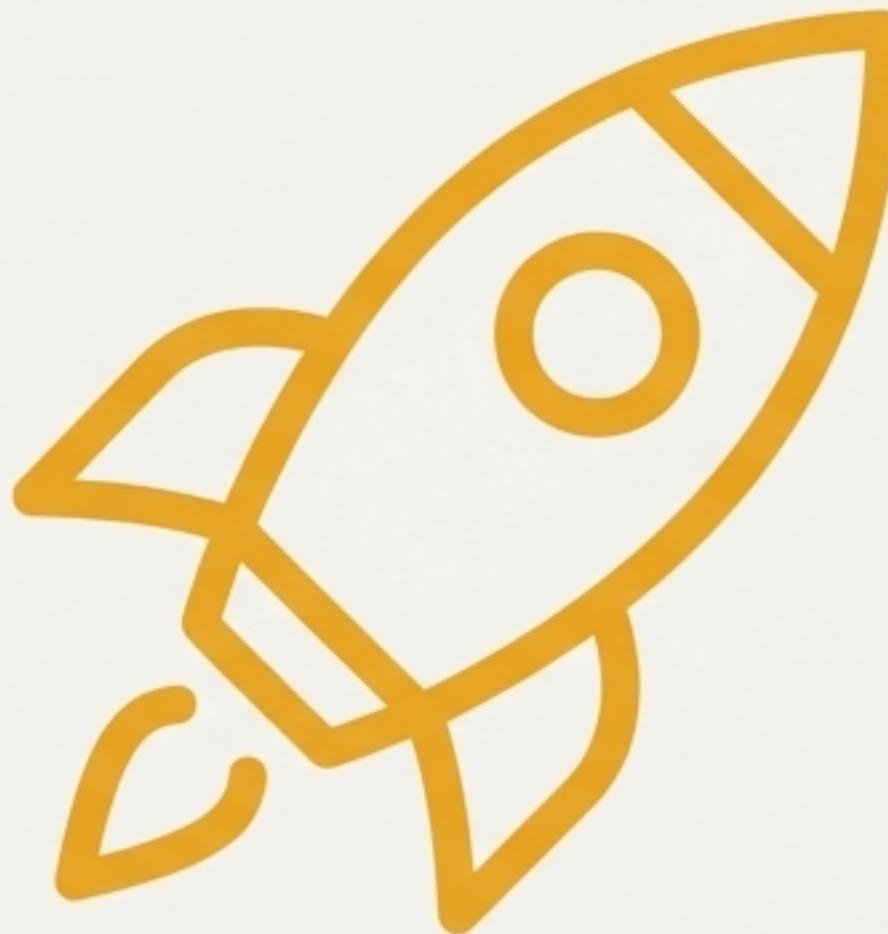
Quality & Safety

Pillar 1: An Intelligent Cognitive Architecture



- 🧠 **Cognitive Architecture:** Inspired by SuperClaude, agents leverage **ReflexionMemory** to learn from past mistakes and a **SelfCheckProtocol** to verify their own work.
- 🎭 **Dynamic Persona Selection:** Intelligently assigns the best expert (e.g., **system-architect**, **technical-writer**) for each task based on rules in **settings.yaml**, or allows for manual assignment.

Pillar 2: Engineered for Efficiency.



Maximum velocity, minimum cost.

- 🚀 **Token Efficiency:** A ‘Layer 0 Bootstrap’ system minimizes token usage by loading only essential project context (file tree, README.md) first, reducing API costs.
- ⚡ **Parallel Execution:** Independent tasks can run simultaneously for faster mission completion by setting parallel: true.

Pillar 3: A Safety Net for Your Code.



Code with confidence.

- **Robust Quality Gates:** Ensures tasks are not just ‘done,’ but done **right** through rigorous, persona-aware self-validation.
- **Automatic Git Checkpoints:** NightShift automatically creates Git commits before and after tasks, with auto-rollback on failure. Your work is always safe.

Go From Zero to Autonomous in Minutes.



Step 1: Define Your Mission.

Source Serif Pro Regular.

Create a `mission.yaml` file in your project's root. This is your main dashboard.

mission.yaml

project's root

main dashboard

```
# mission.yaml
project:
  project_root: "." # Defines the root directory for this mission
mission:
  title: "Develop a new feature and document it"
  persona: "general" # Default persona for all tasks
  constraints:
    - "Use Python 3.11+"
    - "All code must be formatted with black."
  tasks:
    - title: "Design the core module"
      persona: "system-architect" # Optional: override persona
    - title: "Implement the feature with unit tests"
    - title: "Write user documentation for the new feature"
      persona: "technical-writer"
```

Step 2 & 3: Run the Mission and Observe.

Navigate to your project directory and run a single command. NightShift handles the rest, automatically injecting task IDs and updating statuses in your mission file.

```
> nightshift mission.yaml
```



Auto-Injection: Adds `id: task_n` and `status: todo` automatically.



State Tracking: Updates status from `todo` → `in_progress` → `done`.



Persistence: Your `mission.yaml` is updated in real-time.

One Line is All it Takes to Install.

Our installer for macOS/Linux handles everything: it clones the repository to `~/.night_shift_app`, sets up a dedicated Python virtual environment, installs dependencies, and adds the `nightshift` command to your PATH.



```
curl -fsSL https://raw.githubusercontent.com/appff/NightShift/main/install.sh | bash
```

To update, simply run the same command again.

Dive Deeper Into the Architecture.

For advanced users and contributors, the full documentation provides a comprehensive overview of the system's inner workings.

-  **System Architecture & Data Flow:** [docs/architecture.md](#)
-  **Personas & Capabilities:** [docs/features.md](#)
-  **Ensuring True Completion:** [docs/quality_gates.md](#)
-  **Advanced Configuration:** [settings.example.yaml](#)



Put Your Project on Autopilot.

This is your brain when you're sleeping.



github.com/appff/NightShift