Daily Workflow & Quick Reference Guide

# Daily Flow (Quick Checklist)

* 1) Sync & branch:  
   git checkout dev  
   git pull  
   git checkout -b feature/<topic>
* 2) Open project & env:  
   code .  
   .\.venv\Scripts\Activate
* 3) Run tests early:  
   python -m pytest -q --html=reports/test\_report.html
* 4) Code → run tests → repeat:  
   - Edit files in VS Code  
   - Re-run: python -m pytest -q
* 5) Lint / type-check:  
   ruff check .  
   mypy .
* 6) Commit your work:  
   git add .  
   git commit -m "feat(<area>): short summary"
* 7) Push & PR:  
   git push -u origin feature/<topic>  
   - Open a Pull Request into dev  
   - Wait for CI to pass → Squash & merge
* 8) Wrap up:  
   deactivate

# Quick Reference (Commands)

## Virtual Environment

* python -m venv .venv # create venv (once)
* .\.venv\Scripts\Activate # activate venv (each session)
* pip install -r requirements.txt # install deps
* pip freeze > requirements.txt # freeze deps
* deactivate # leave venv

## Pytest & Reports

* python -m pytest -q # run tests (quiet)
* python -m pytest --html=reports/test\_report.html # run & generate HTML report
* python -m pytest -k "smoke or heartbeat" # run only tests matching pattern

## Lint / Type-check

* ruff check .
* mypy .

## Git Basics

* git remote -v # see remotes
* git status # check status
* git checkout dev
* git pull
* git checkout -b feature/<topic>
* git add .
* git commit -m "feat(test): add heartbeat smoke test"
* git push -u origin feature/<topic>
* git checkout dev && git pull # after PR merge

# Branch Model

- main → protected, releasable  
- dev → integration branch (PR target)  
- feature/<topic> → daily work branches  
  
PR Flow: feature → dev (CI must pass) → squash & merge → periodically dev → main for releases.