

Changelog

All notable changes to this project are documented in this file. Version numbers follow semantic versioning and dates use `YYYY-MM-DD`.

[1.0.0] - 2025-12-16

Added

- Residency Rotation Scheduler initial release with constraint-based timetable optimisation powered by Google OR-Tools CP-SAT.
- CSV ingestion and validation for residents, resident history, resident preferences, SR preferences, postings, and optional resident leaves, plus weightages, pinned assignments, and a solver time-limit override.
- FastAPI backend exposing `/api/solve`, `/api/save`, and `/api/download-csv`, with in-memory dataset caching to support iterative solves and current-year edits.
- React + Vite + Tailwind frontend for uploading CSVs, tuning weightages, pinning assignments, running the solver, reviewing timetables/cohort statistics, and exporting the final timetable; includes a sample CSV generator for quick smoke tests.
- Constraint documentation and developer handoff guidance covering the hard/soft rules (see `constraints.md` and `DEVELOPER_GUIDE.md`), plus notes for hosted deployments (stateless flows with optional PostgreSQL session persistence).

Known issues

- No automated backend test suite yet; validate changes manually with representative CSVs.
- Local in-memory cache resets when the API process restarts; `/api/save` requires a prior solve/upload within the same process.
- Solver runtime scales with dataset size; use `max_time_in_minutes` when iterating or debugging feasibility.