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HOSPITALITY AUTOMATION / DEVELOPMENT CASE STUDY

Porent Cleaning Operations in Telegram

A custom bot connecting Lodgify booking data, apartment cleaning schedules and cleaner pay records.



Date	1	2	3	M
17 Oct 2026	No cleaning	No cleaning	No cleaning	Cleaning
18 Oct 2026	Cleaning	Cleaning	No cleaning	Cleaning
19 Oct 2026	No cleaning	?	Cleaning	No cleaning
20 Oct 2026	No cleaning	?	?	Cleaning
21 Oct 2026	No cleaning	?	?	?
22 Oct 2026	Cleaning	No cleaning	?	No cleaning
23 Oct 2026	No cleaning	No cleaning	Cleaning	Cleaning
24 Oct 2026	Cleaning	No cleaning	Cleaning	Cleaning

English-adapted schedule illustration. Selected rows.

A focused operational tool for short-term rental management.

Keep cleaning work and payment records connected

A practical workflow for apartment rental operations under the Porent brand.

01

Plan the work

Translate guest departures into apartment cleaning tasks. Keep occupied days and uncertain future dates distinguishable.

02

Share a clear view

Give the cleaner a schedule and current pay balance in Telegram, with actions available directly below the dashboard.

03

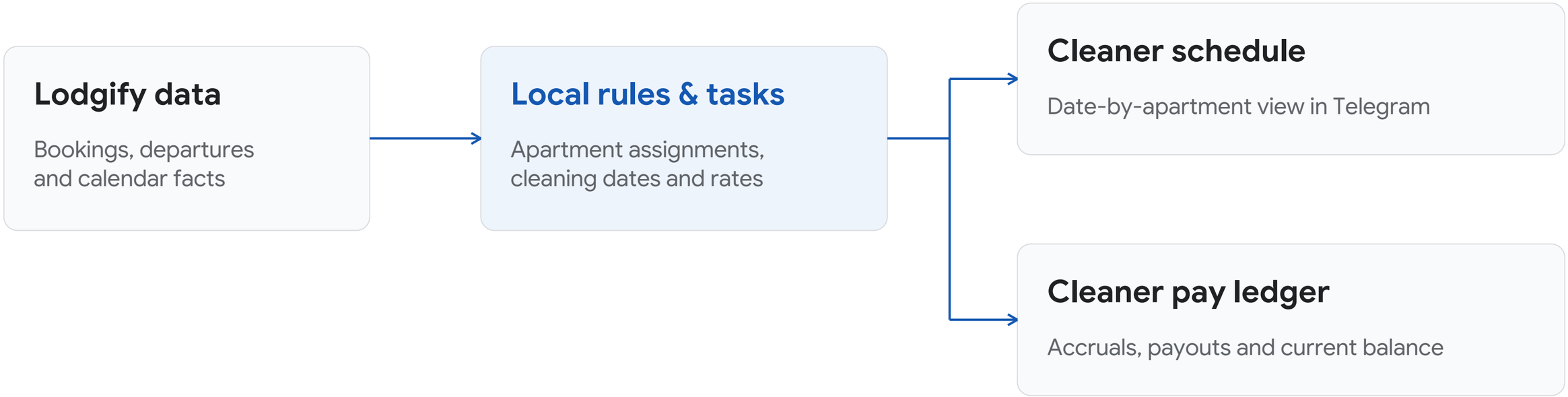
Record the money

Connect cleaning accruals, payments and adjustments to a consistent ledger that administrators can inspect.

The operational question: what needs cleaning, and what is the cleaner's current balance?

Booking data becomes actionable cleaning information

Lodgify supplies booking and calendar data; the bot applies local cleaning and pay rules.



Administrators can add extra cleanings and financial adjustments without changing the source booking.

A schedule that keeps uncertainty visible

Each apartment and date has one status, with manual cleaning taking priority.

Cleaning

A checkout requires cleaning, or an administrator adds extra work.

No cleaning

Guests are staying, with no checkout requiring cleaning that day.

Unknown

Unresolved future dates remain explicit in the operational schedule.

Vacant

Today's overnight vacancy follows the local-time rule after 04:00.

Date	1	2	3	M
17 Oct 2026	No cleaning	No cleaning	No cleaning	Cleaning
18 Oct 2026	Cleaning	Cleaning	No cleaning	Cleaning
19 Oct 2026	No cleaning	?	Cleaning	No cleaning
20 Oct 2026	No cleaning	?	?	Cleaning
21 Oct 2026	No cleaning	?	?	?
22 Oct 2026	Cleaning	No cleaning	?	No cleaning
23 Oct 2026	No cleaning	No cleaning	Cleaning	Cleaning
24 Oct 2026	Cleaning	No cleaning	Cleaning	Cleaning

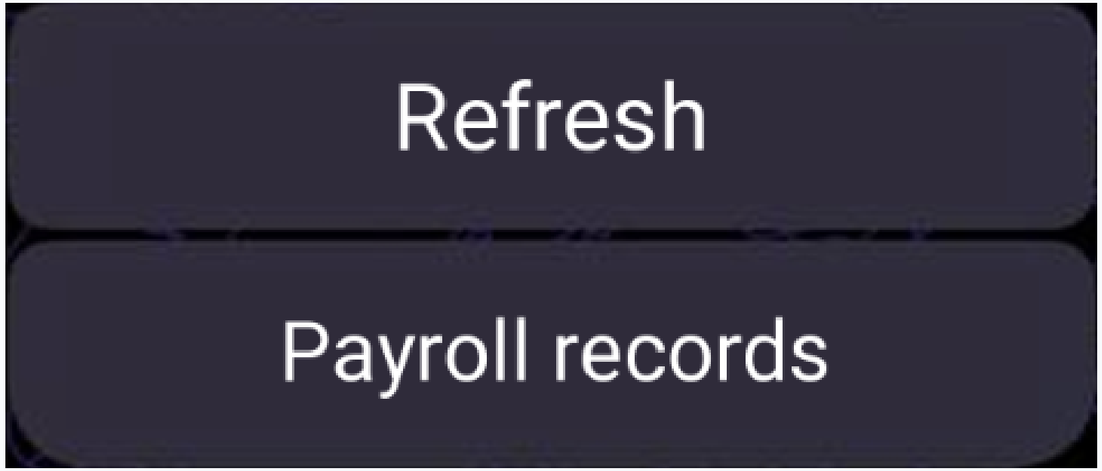
English-adapted schedule illustration. Crop shows a selection of dates and status examples.

Two roles, with the right actions in the chat

Generated dashboard images work with inline buttons and role-specific handlers.

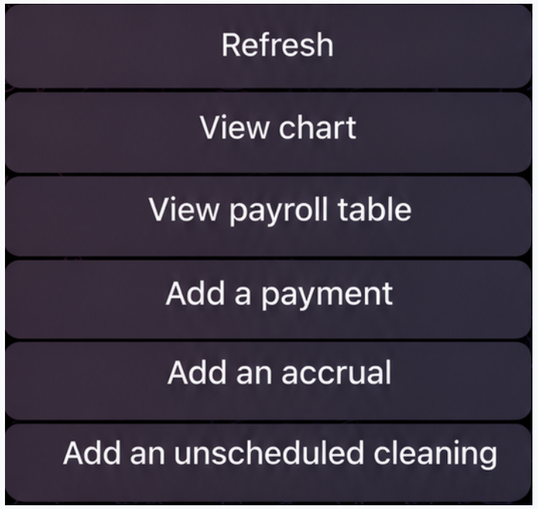
Cleaner

Refresh the schedule and switch to pay records. The cleaner sees their assigned scope.



Administrator

Open operational views and record payments, accrual adjustments or unscheduled cleaning.



English-adapted interface crops supplied for this case study. The current bot's core UI text is Russian.

A ledger explains the current pay balance

The balance is calculated from recorded accruals, payments and adjustments.

Accrue cleaning pay

Use the apartment's rate valid on the cleaning date, or an explicit amount for manual work.

Record payments

Payouts reduce the balance. Separate adjustments support corrections with an audit comment.

Review recent history

A configurable history window shows entries alongside the full current balance.

Date	Operation description	Amount	Running total
17 Oct 2026	Cleaning – Małecki	75	1630
16 Oct 2026	Partial payment (2 apartments)	40	1555
16 Oct 2026	Cleaning – Łazarz 2	60	1515
16 Oct 2026	Cleaning – Łazarz 3	60	1455
14 Oct 2026	Cleaning – Łazarz 1	60	1395
13 Oct 2026	Payment	40	1335
13 Oct 2026	Cleaning – Łazarz 2	60	1395
13 Oct 2026	Cleaning – Małecki	75	1335
12 Oct 2026	Cleaning – Małecki	75	1260
11 Oct 2026	Cleaning – Łazarz 1	60	1185
11 Oct 2026	Cleaning – Małecki	75	1125
11 Oct 2026	Cleaning – Łazarz 2	60	1050
11 Oct 2026	Cleaning – Łazarz 3	60	990

English-adapted ledger excerpt. Values belong to the supplied screen illustration.

Handle exceptions through a controlled dialog

The administrator can record extra work and financial changes directly in Telegram.

01

Choose an action

Start a payout, a balance adjustment or an unscheduled cleaning from the administrator dashboard.

02

Enter the details

Provide the relevant amount, date and apartment. Comments capture the reason for the manual operation.

03

Review and confirm

Confirm before the operation is saved. Manual cleaning remains visible after Lodgify resynchronization.

Automatic planning stays useful when real-world exceptions can be recorded explicitly.

Routine updates follow the local operating day

Scheduled jobs use Europe/Warsaw time and run within the bot's application process.

Hourly

Refresh Lodgify data

Synchronize booking and calendar facts, then refresh saved schedule dashboards.

11:00 local

Generate due accruals

Create cleaning pay entries for due tasks and refresh schedule and pay views.

On restart

Catch up missed work

Check the recorded job state and recover missed daily processing where needed.

Repeat-safe processing

Job locks and duplicate checks guard scheduled work and cleaning credits.

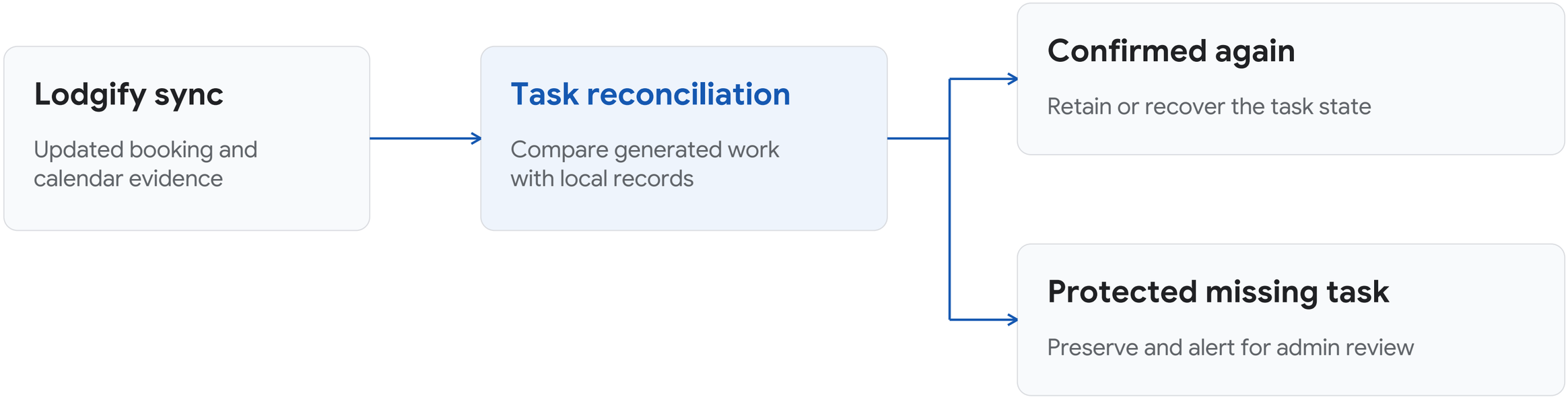
Visible failures and recovery

Administrators receive deduplicated failure alerts and recovery notifications.

Local timezone rules apply across CET and CEST.

Review source changes and preserve protected work

Reconciliation distinguishes confirmed tasks from missing work that may already have happened.



Tasks linked to pay entries and manual extra cleanings are protected. Missing-task review applies within a defined date window.

Keep access and operational data scoped

Cleaner and administrator access are resolved before operational actions are handled.

01

Invite onboarding

Single-use links connect a cleaner record with a Telegram account. Administrators can revoke invites or unlink access.

02

Role-aware actions

Cleaners read their own views. Administrator-only handlers control payouts, adjustments and manual cleaning.

03

Limited guest data

The Lodgify cache uses operational IDs and dates. Sanitizers exclude guest contact details and notes from stored payloads.

Current admin dialogs target one active cleaner; assignments can cover multiple apartments.

A compact application with clear service boundaries

Business rules, external integrations, data storage and image rendering are separated.

APPLICATION STACK

Runtime	**Python 3.12 / aiogram 3**
Data	**PostgreSQL / SQLAlchemy**
Integration	**Lodgify API / httpx**
Operations	**APScheduler / Docker**

Rendered dashboards

Pillow produces schedule and ledger images. Telegram delivery edits an existing dashboard when possible.

Versioned persistence

Alembic migrations define the data model; transaction boundaries organize synchronization and mutations.

Automated quality checks

The repository includes tests for business rules, API sync, scheduled jobs, access and Telegram flows.

One application process combines Telegram polling, scheduled jobs and shared database services.

A focused tool for everyday rental operations

Porent Cleaning Bot connects cleaning coordination and cleaner pay tracking in Telegram.

Shared operational view

Cleaning dates, apartment status and pay balance are available within the working chat.

Repeatable routine

Lodgify synchronization, scheduled accruals and dashboard refresh support daily work.

Controlled exceptions

Manual work, financial adjustments and review alerts handle situations outside the routine.

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