

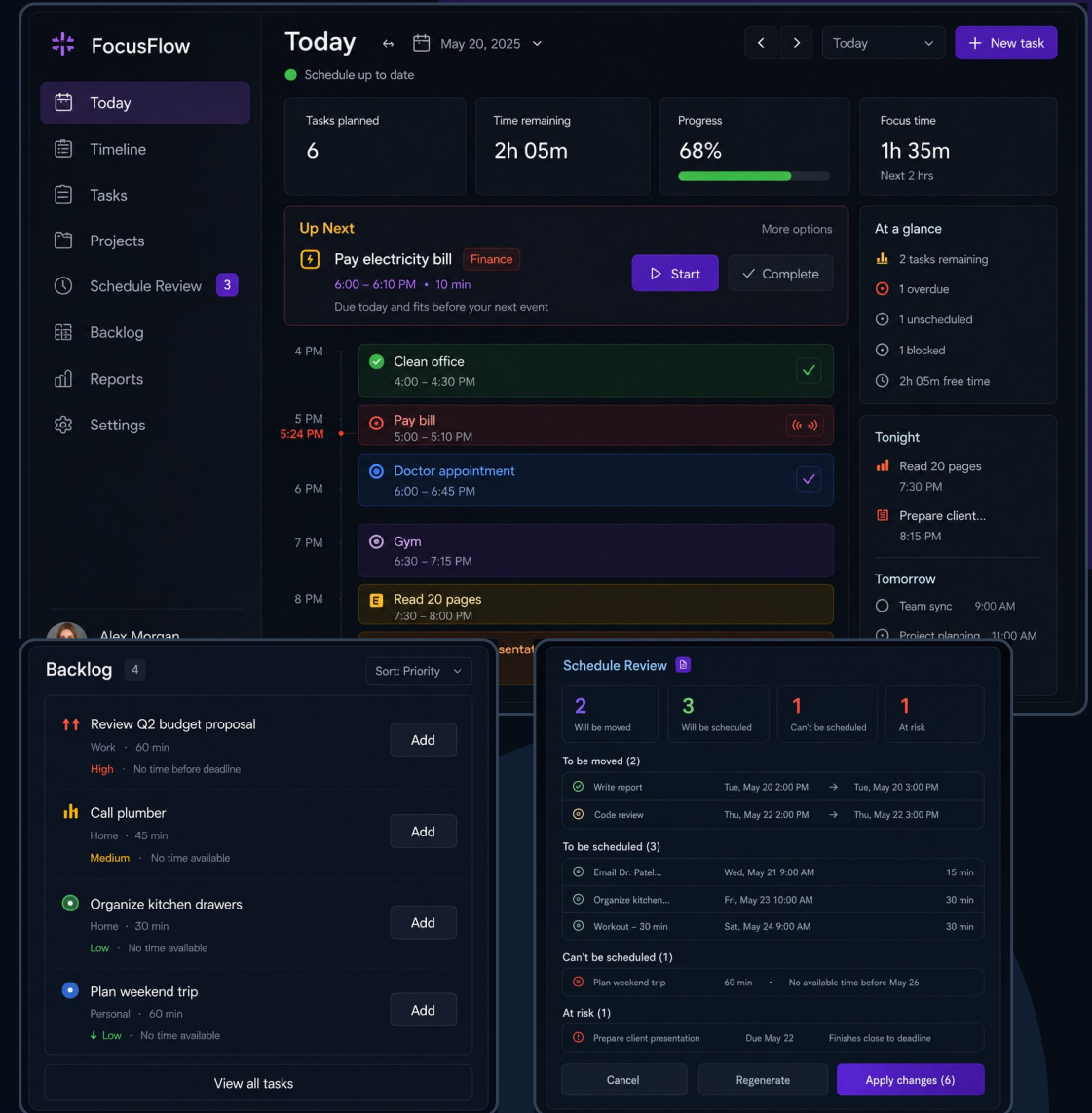
FocusFlow

UX Interaction Flows

Dark-theme desktop flows for capture, scheduling, editing, and moving work between Today and Backlog.

- 01 Add a new task
- 02 Schedule it
- 03 Edit a scheduled task
- 04 Move Task A to Backlog, then schedule Task B

Implementation-oriented • derived from the current scheduling core and product specification



Interaction model

The interface should preserve intent when the plan changes, not force the user to rebuild the day.

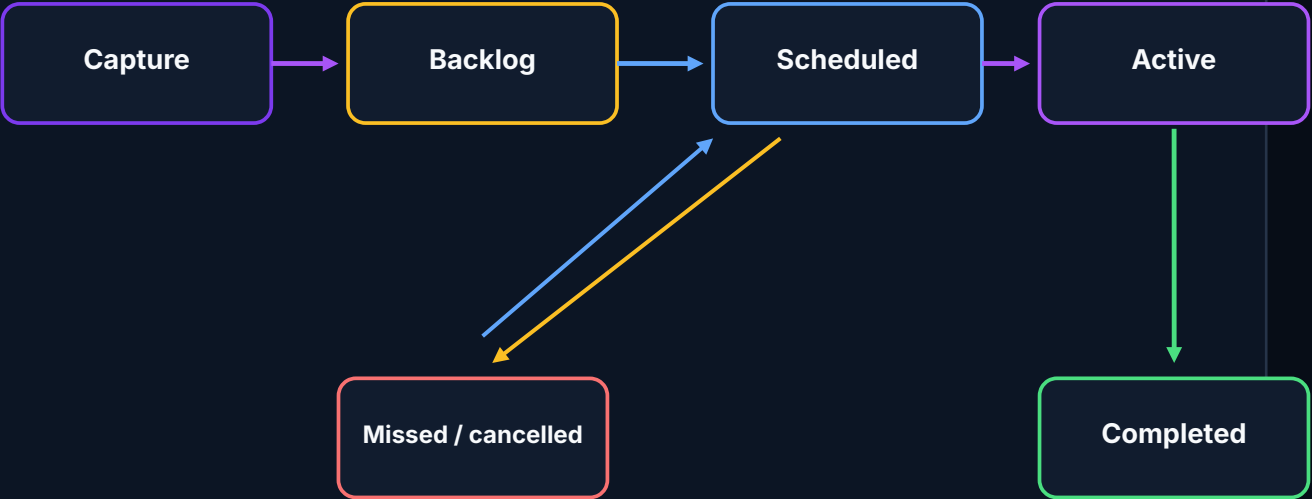
EXPERIENCE CONTRACT

- Capture first; structure only when it is needed.
- Flexible tasks may move. Critical, inflexible, and locked time stay fixed.
- Backlog is a safe unified state, not a failure bucket.
- Preview downstream moves before applying a multi-task change.
- Use calm, specific language for no-fit, missed, and deferred states.
- Keep one-tap actions visible: Done, Push, Backlog, Break up.

V1 core

Today, Backlog, quick capture, flexible movement, child tasks, locked time

PRIMARY TASK STATE FLOW



Move to Backlog clears schedule placement. Scheduling again uses the current rules; the old slot is not restored.

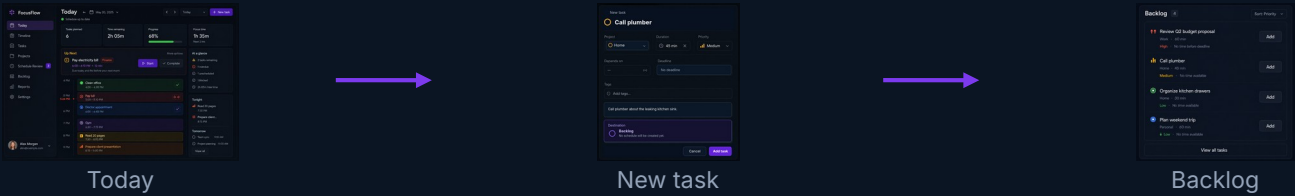
FUTURE V2 SURFACES

Week/month views, reports, drag-and-drop, history, Overwhelm Shield

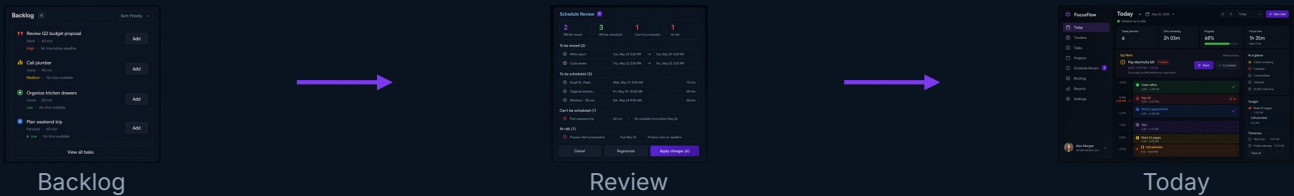
Four end-to-end user flows

Each path keeps the user in context and exposes only the decisions required at that moment.

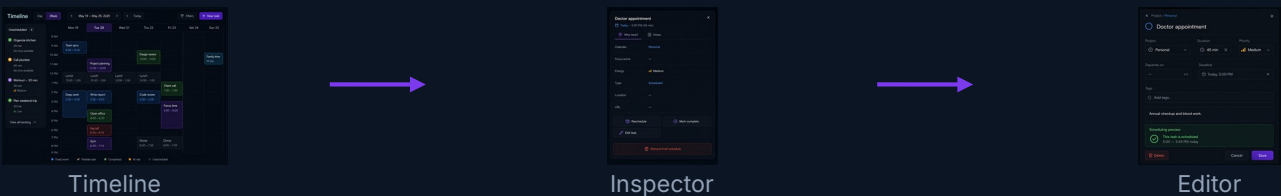
01 Add a new task



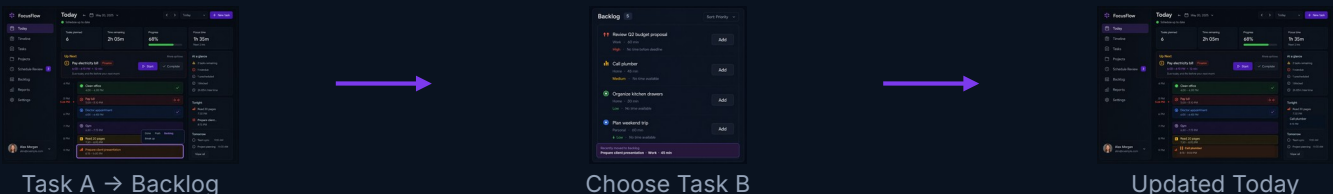
02 Schedule it



03 Edit scheduled task

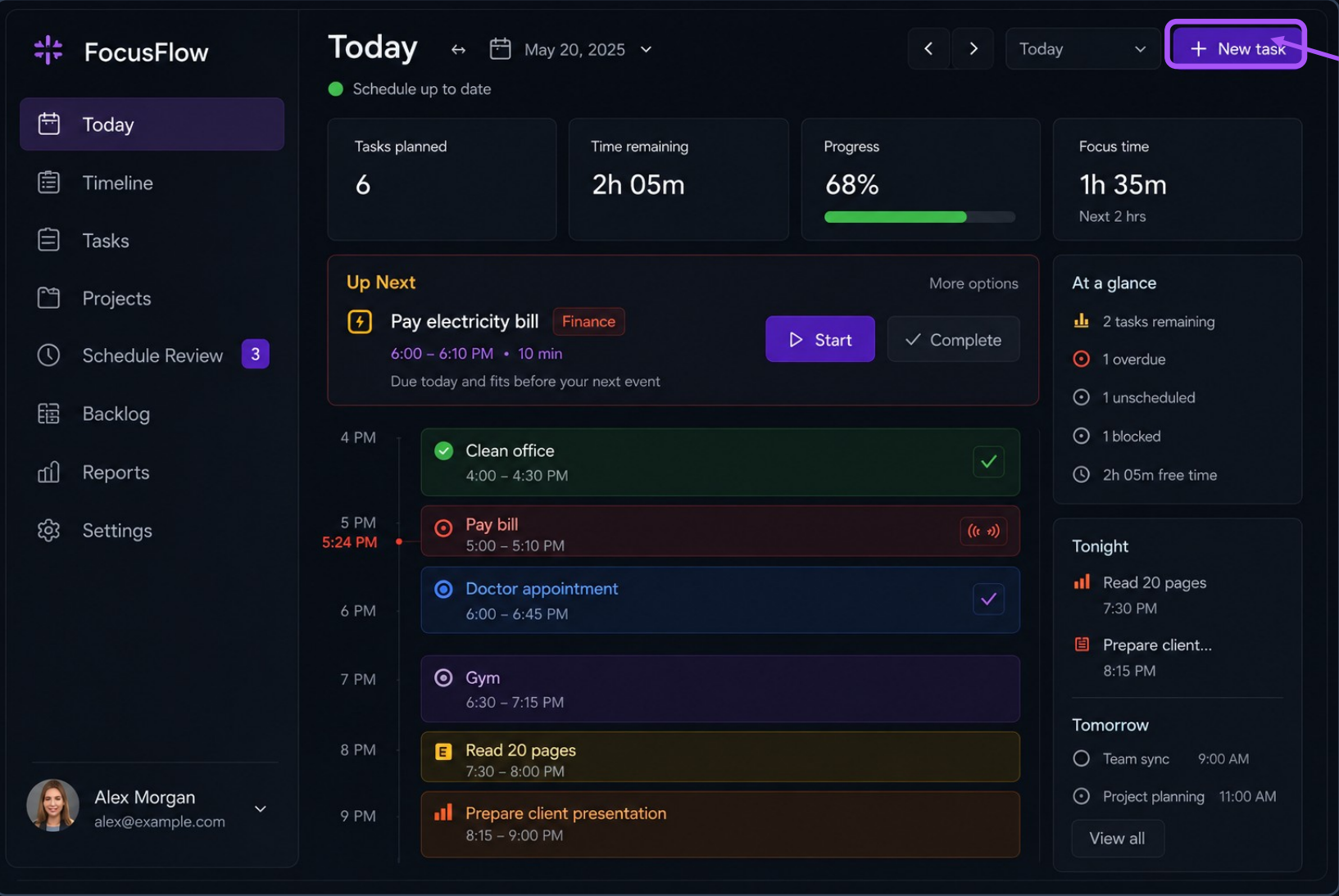


04 Replace Task A with Task B



Start from Today

The creation flow opens over the current day rather than navigating the user away.



1 **Select New task**

Use the primary action in the top bar. The user remains anchored to Today and the selected date.

2 **Open a reusable drawer**

Create and edit use the same task editor shell. In create mode, fields are blank or neutral defaults.

3 **Ask for one thing first**

Title is the only required value. Duration can remain empty until the user chooses to schedule.

Initial UI state Create mode • destination Backlog

Enter the minimum and add

Quick capture should accept partial information without turning capture into planning.

New task

Call plumber

Project

Home

▼

Duration

45 min

×

Priority

Medium

▼

Depends on

—

(+)

Deadline

No deadline

Tags

Add tags...

Call plumber about the leaking kitchen sink.

Destination

Backlog

No schedule will be created yet.

Cancel

Add task

1 Title is required

"Call plumber" is enough to create the task. Project, duration, deadline, tags, and notes remain optional.

2 Use neutral defaults

Project defaults to Inbox/Unsorted when blank. Priority is Medium. Reward and difficulty remain Not set.

3 Backlog is the default destination

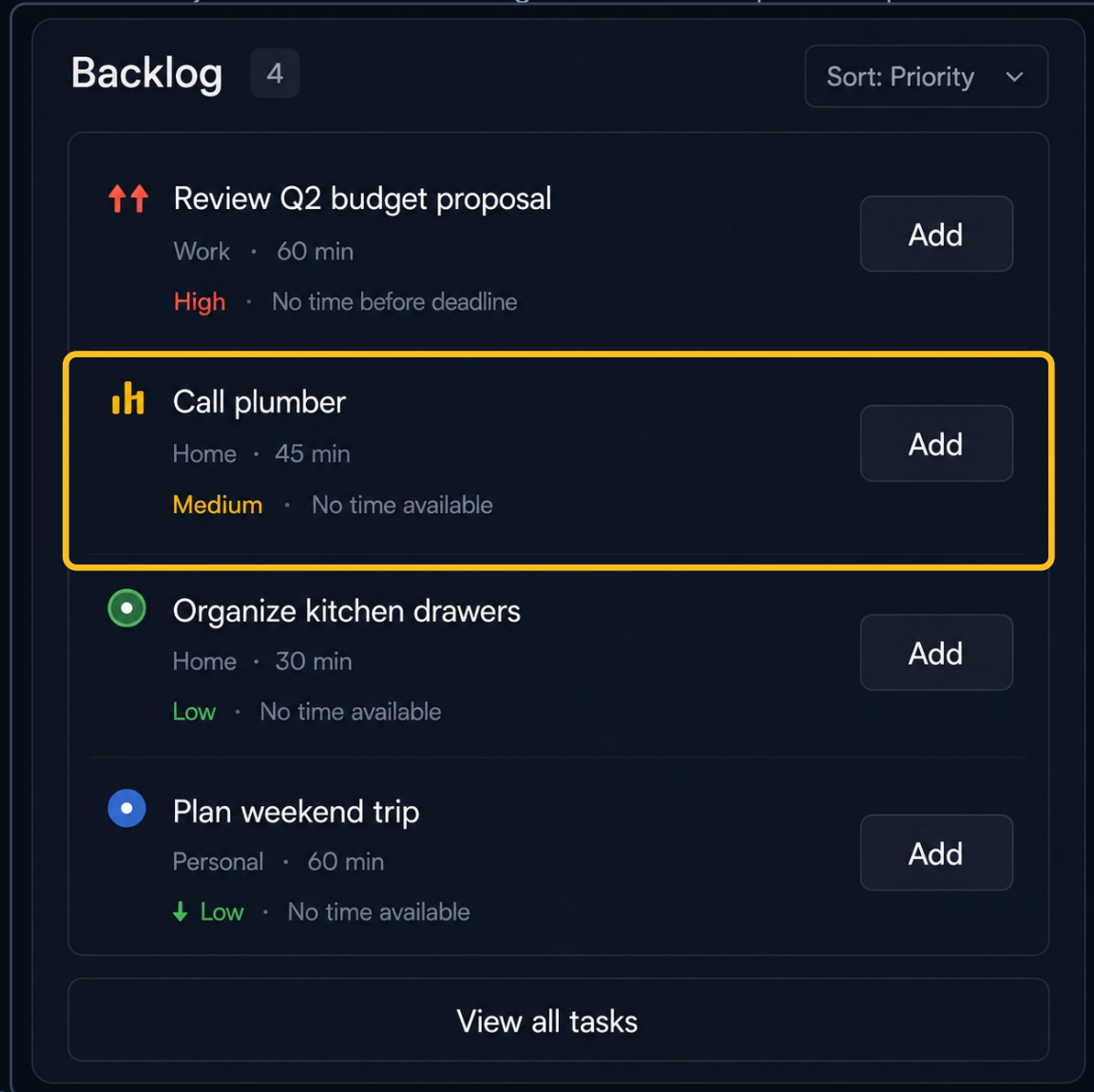
Creating the task does not force a schedule decision. Duration may be entered now, but is required only when scheduling.

4 Add task

On success, close the drawer and show a quiet "Added to Backlog" confirmation. Empty-title validation stays inline and preserves input.

Result: task is safe in Backlog

The new task joins the unified backlog rather than a separate capture silo.



1 Normal backlog row

Show title, project, duration when known, priority, and the reason it is not scheduled.

2 Ambient staleness only

The age marker begins fresh and changes over time. Do not create a prompt or warning stream per task.

3 One scheduling action

"Add" means insert into the earliest valid flexible slot. It should not open a manual time picker first.

Domain state after capture status = backlog
scheduledStart = null • scheduledEnd = null

Select Add from Backlog

Scheduling is automatic: the user chooses the task, not a precise time.

Backlog4

Sort: Priority

↑↑

Review Q2 budget proposal

Work · 60 min

High · No time before deadline

Add

🏠

Call plumber

Home · 45 min

Medium · No time available

Add

🟢

Organize kitchen drawers

Home · 30 min

Low · No time available

Add

🟡

Plan weekend trip

Personal · 60 min

↓ Low · No time available

Add

View all tasks

1 Choose Add

The selected task is passed to the next-available-slot scheduler.

2 Validate only what scheduling needs

Immediate scheduling requires a positive duration and a flexible task type. Missing duration focuses the duration field instead of discarding the task.

3 Find the earliest valid slot

Skip locked time and required visible items. Preserve the order of later flexible tasks while moving them forward as needed.

No-fit branch

Keep the task in Backlog and explain the blocking constraint. Never lose the captured task.

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June 20267

Preview downstream changes

Use a full review only when scheduling affects other tasks, creates risk, or cannot place an item.

Schedule Review

2
Will be moved

3
Will be scheduled

1
Can't be scheduled

1
At risk

To be moved (2)

✓

Write report

Tue, May 20 2:00 PM

→

Tue, May 20 3:00 PM

⦿

Code review

Thu, May 22 2:00 PM

→

Thu, May 22 3:00 PM

To be scheduled (3)

⦿

Email Dr. Patel...

Wed, May 21 9:00 AM

15 min

⦿

Organize kitchen...

Fri, May 23 10:00 AM

30 min

⦿

Workout – 30 min

Sat, May 24 9:00 AM

30 min

Can't be scheduled (1)

✗

Plan weekend trip

60 min

•

No available time before May 26

At risk (1)

!

Prepare client presentation

Due May 22

Finishes close to deadline

Cancel

Regenerate

Apply changes (6)

Example placement

Call plumber → 8:15–9:00 PM

1

Show every affected item

Separate newly scheduled, moved, unable-to-schedule, and at-risk outcomes. For moved tasks, show before and after times.

2

Keep decisions reversible

Cancel leaves the original task list untouched. Regenerate reruns the same rules against the current scheduling window.

3

Apply as one change set

Commit the selected task and all dependent placement changes together. Avoid partial saves.

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June 2026 8

Result: the task appears on Today

The final state communicates placement clearly and returns the schedule to a stable state.

FocusFlow

Today

Timeline

Tasks

Projects

Schedule Review3

Backlog

Reports

Settings

Alex Morgan

alex@example.com

Today

May 20, 2025

Today

New task

Schedule up to date

Tasks planned6

Time remaining2h 05m

Progress68%

Focus time1h 35m

Up Next

Pay electricity bill

6:00 – 6:10 PM • 10 min

Start

Complete

At a glance

2 tasks remaining

1 overdue

1 unscheduled

1 blocked

2h 05m free time

Tonight

Read 20 pages

7:30 PM

Call plumber

8:15 PM

Tomorrow

Team sync

9:00 AM

Project planning

11:00 AM

View all

4 PM

Clean office

4:00 – 4:30 PM

5 PM

Pay bill

5:00 – 5:10 PM

5:24 PM

6 PM

Doctor appointment

6:00 – 6:45 PM

7 PM

Gym

6:30 – 7:15 PM

8 PM

Read 20 pages

7:30 – 8:00 PM

9 PM

Call plumber

8:15 – 9:00 PM

1 Planned task card

Call plumber now has a concrete start and end. It leaves Backlog and appears in Today.

2 Schedule status resets

The “Schedule up to date” indicator returns after the change set is applied.

3 Moved flexible tasks update in place

Any downstream flexible tasks display their new times. Required and locked items remain unchanged.

Result state planned • 8:15–9:00 PM

Select the task without leaving the schedule

A contextual inspector provides a fast read before the user commits to editing.

FocusFlow

Today

Timeline

Tasks

Projects

Schedule Review3

Backlog

Reports

Settings

TodayMay 20, 2025

Schedule up to date

Tasks planned6

Time remaining2h 05m

Progress68%

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Up Next

Pay electricity bill

Start

Complete

At a glance

2 tasks remaining

1 overdue

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2h 05m free time

Timeline

Clean office

Pay bill

Doctor appointment

Gym

Tonight

Read 20 pages

Prepare client...

Tomorrow

Inspector behavior

Details, Why here?, and Notes stay visible beside the timeline. "Edit task" opens the full editor.

Doctor appointment

Today • 5:00 PM (45 min)

Why here?

Notes

Calendar

Personal

Focus score

—

Energy

Medium

Type

Scheduled

Location

—

URL

—

Reschedule

Mark complete

Edit task

Remove from schedule

Flexible-task label Use "Move to Backlog."

Edit fields and save

The editor separates harmless metadata changes from changes that can alter placement.

Project / Personal

Doctor appointment

Project

Personal

Duration

45 min

Priority

Medium

Depends on

—

Deadline

Today, 5:00 PM

Tags

Add tags...

Annual checkup and blood work.

Scheduling preview

✓

This task is scheduled

5:00 — 5:45 PM today

Delete

Cancel

Save

1 Edit task details

Title, project, notes, and tags normally save without moving the task.

2 Detect placement-affecting changes

Duration, flexibility/type, deadline, and future availability constraints trigger a new scheduling preview.

3 Explain the result inline

Show "This task is scheduled" when the existing slot remains valid. Show a specific no-fit reason when it does not.

4 Save or review

If no other task changes, save and close. If another task moves or risk appears, route to Schedule Review before committing.

Apply the revised schedule

Saving a schedule-affecting edit should be atomic and transparent.

Schedule Review

2

Will be moved

3

Will be scheduled

1

Can't be scheduled

1

At risk

To be moved (2)

Write report

Tue, May 20 2:00 PM

→

Tue, May 20 3:00 PM

Code review

Thu, May 22 2:00 PM

→

Thu, May 22 3:00 PM

To be scheduled (3)

Email Dr. Patel...

Wed, May 21 9:00 AM

15 min

Organize kitchen...

Fri, May 23 10:00 AM

30 min

Workout – 30 min

Sat, May 24 9:00 AM

30 min

Can't be scheduled (1)

Plan weekend trip

60 min

No available time before May 26

At risk (1)

Example

45 → 60 min moves one later flexible task; required blocks remain fixed.



Timeline

Day

Week

<

May 19 – May 25, 2025

>

<

Today

Filters

+ New task

Unscheduled 4

Organize kitchen

30 min

No time available

Call plumber

45 min

No time available

Workout – 30 min

30 min

Medium

Plan weekend trip

30 min

Low

View all backlog

Mon 19

Tue 20

Wed 21

Thu 22

Fri 23

Sat 24

Sun 25

8 AM

9 AM

10 AM

11 AM

12 PM

1 PM

2 PM

3 PM

4 PM

5 PM

6 PM

7 PM

8 PM

9 PM

Team sync

9:00 – 9:45

Design review

10:00 – 11:00

Family time

All day

Project planning

11:30 – 12:00

Lunch

12:00 – 1:00

Client call

1:30 – 2:30

Focus time

4:00 – 6:00

Write report

2:00 – 3:00

Code review

2:00 – 3:00

Clean office

4:00 – 4:30

Pay bill

6:00 – 6:10

Gym

8:30 – 7:15

Dinner

6:00 – 7:00

Lunch

12:00 – 1:00

Deep work

2:00 – 4:00

Workout

30 min

Fixed event

Flexible task

Completed

At risk

Unscheduled

Commit contract Apply = edited task + every returned SchedulingChange.
Cancel = original values and original placements.

Move Task A to Backlog

The first action explicitly removes a flexible task from the active plan.

FocusFlow

Today

Timeline

Tasks

Projects

Schedule Review 3

Backlog

Reports

Settings

Today

↔

May 20, 2025

▼

<

>

Today

▼

+ New task

Schedule up to date

Tasks planned

6

Time remaining

2h 05m

Progress

68%

Focus time

1h 35m

Next 2 hrs

Up Next

⚡ Pay electricity bill

Finance

6:00 – 6:10 PM • 10 min

▶ Start

✓ Complete

Due today and fits before your next event

More options

At a glance

📊 2 tasks remaining

🕒 1 overdue

🕒 1 unscheduled

🕒 1 blocked

🕒 2h 05m free time

Tonight

📖 Read 20 pages

7:30 PM

📅 Prepare client...

8:15 PM

Tomorrow

🕒 Team sync

9:00 AM

🕒 Project planning

11:00 AM

View all

4 PM

✓ Clean office

4:00 – 4:30 PM

✓

5 PM

🕒 Pay bill

5:00 – 5:10 PM

⏮ ⏭

5:24 PM

🕒 Doctor appointment

6:00 – 6:45 PM

✓

6 PM

🕒 Gym

6:30 – 7:15 PM

7 PM

📖 Read 20 pages

7:30 – 8:00 PM

Break up

8 PM

📊 Prepare client presentation

8:15 – 9:00 PM

9 PM

1 Select Task A

Example: Prepare client presentation, 45 minutes, scheduled at 8:15 PM.

2 Choose Backlog

Expose Backlog directly on flexible task cards, or as Push → Backlog. Do not open a time picker.

3 Clear placement immediately

Set status to Backlog and clear start/end. Do not preserve the old slot or queue position for later restoration.

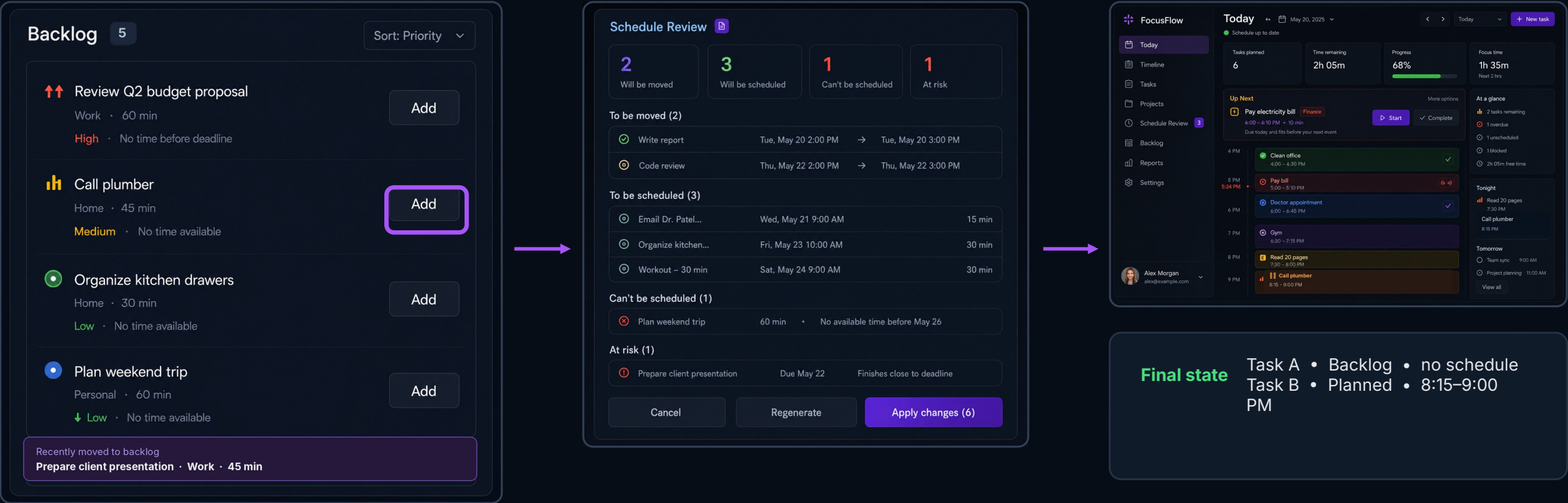
Important Leave the new opening unfilled until the user selects Task B.

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June 2026 13

Schedule Task B into the newly available time

The scheduler still chooses the earliest valid slot; the user sees the exact placement before applying.



1 Select Task B

In Backlog, choose Call plumber and click Add.

2 Confirm placement

In this example, 8:15 PM is the earliest valid 45-minute slot. Review any downstream moves.

3 Apply

Task A stays safe in Backlog. Task B becomes planned. Fixed and required items remain unchanged.

UI-to-core interaction matrix

Suggested Flutter orchestration based on the current pure Dart domain services.

UI event	Core operation	Expected result	UI feedback
Add task	QuickCaptureService.capture(addToNextAvailableSlot: false)	QuickCaptureStatus.addedToBacklog	Close drawer; quiet success; show backlog row
Add from Backlog	insertBacklogTaskIntoNextAvailableSlot	Replacement task list + notices + changes	Inline confirmation or Schedule Review
Move flexible task to Backlog	FlexibleTaskActionService → Backlog	Status backlog; schedule cleared; stat incremented	Remove card; show Backlog confirmation
Save placement-affecting edit	UI clones edit, analyzes/recomputes schedule	Valid placement, change set, or no-fit notice	Save directly, review, or recovery options
Cancel Schedule Review	Discard returned replacement list	No domain or persistence change	Return to prior screen and selection

Acceptance checks

Input is never lost • no-fit keeps the task safe • locked/required time never moves • all multi-task changes are visible before apply

Scope boundary

Week view, drag-and-drop, reports, history, and Overwhelm Shield remain V2 surfaces.