

AGENT BUILDER • SHARED MEMORY • LOCAL-FIRST

RAPR AI

Feature Overview

One desktop app for building AI agents, preserving shared memory across models, controlling workflows from Telegram, and keeping execution local-first.

Windows | macOS | Linux
raprai.com

WHAT'S INSIDE

Feature Map

Agent Builder and Shared AI Memory lead the document as the core differentiators, followed by multi-model chat, remote control, automation, plugins, security, backup, and desktop experience.

01	Agent Builder	Visual, no-code workflow automation for arranging AI-powered nodes on an infinite canvas and wiring them into a directed acyclic graph. Trigger agents from Telegram, cron, webhooks, or the UI, with execution kept local.
02	Shared AI Memory	RAPR AI maintains a shared memory that all AI sessions can access, across sessions, restarts, and model switches.
03	AI Chat & Multi-Model Support	A unified desktop interface for working with multiple AI models through one dark-mode chat UI. Switch models instantly or let RAPR AI retry with a fallback model.
04	Multi-Session Workspace	Run four or more independent AI sessions simultaneously, each with its own context, working directory, and terminal.
05	Telegram Remote Control	Control RAPR AI from anywhere using your phone. The built-in Telegram bot exposes key actions through inline keyboard buttons.
06	Scheduling & Automation	Schedule AI tasks using plain English such as 'every day at 3pm', and RAPR AI converts it to a cron expression automatically.
07	Heartbeat Monitoring	The Heartbeat system, internally called Soul, scans chat history for incomplete tasks and surfaces forgotten work before it slips.
08	Pipeline Workflows	Build workflows that chain multiple AI actions together, with sequential and parallel execution, conditional logic, and context passing.
09	Plugin Ecosystem	RAPR AI ships with pre-configured plugins that handle authentication, prompt injection, and one-click connection for popular services.
10	Security & Encryption	RAPR AI protects keys, tokens, access, file uploads, and destructive actions with multiple layers of defense.
11	Cloud Backup	Back up the RAPR AI database, including sessions, memories, schedules, and tokens, to a local folder today; cloud providers are in development.
12	Desktop Experience	A polished local app experience with guided setup, file browsing, and usage visibility.

FEATURE 01

Agent Builder

Visual, no-code workflow automation for arranging AI-powered nodes on an infinite canvas and wiring them into a directed acyclic graph. Trigger agents from Telegram, cron, webhooks, or the UI, with execution kept local.

Visual Canvas Builder

- Infinite canvas with dot-grid background, pan and zoom support.
- Drag-and-drop nodes; draw bezier-curve edges between output ports.
- 3 coloured output ports per node: amber, green, purple, with up to 3 children.
- Click any node to open inline config: Step Name, AI model, Task prompt.
- AI-assisted creation: describe your workflow in plain English and auto-generate nodes.

Multi-AI Per Node

- Assign a different AI to every node independently: Claude, Gemini, Ollama, or any integration.
- Mix and match AI models within a single workflow graph.
- No API keys required: Claude uses your Anthropic subscription, Gemini uses Google OAuth, and Ollama runs fully offline and free.

Smart Triggers

- Telegram command: /agent <name> to run any agent from your phone.
- Schedule: natural language to cron, for example 'every Monday at 9am'.
- Webhook: expose agents as HTTP endpoints; trigger from Zapier, GitHub, or any service.
- UI run button: one-click manual execution from the Agent List page.

Live Streaming Execution

- Watch each node execute in real time with node-by-node output streaming.
- Canvas shows live status: spinner for running, green check for done, red X for failed.
- Telegram receives step-by-step updates during execution.
- Auto-context flow injects each node's full output into all downstream nodes.

100% Local Execution

- All agents run on your machine. No cloud servers. No data leaves your system.
- SQLite persistence keeps agents and run history across restarts.
- Parallel execution of sibling nodes using async concurrency.
- Cancel any running agent from the UI or Telegram.

AGENT BUILDER COMPARISON

SDK & Builder Comparison

RAPR AI is positioned around visual canvas creation, no extra API-key burden, local execution, Telegram triggers, and streaming output.

Tool	Visual Canvas	Multi-AI Per Node	No API Key Needed	Local / Self-hosted	Telegram Trigger	Streaming Output
RAPR AI Agent Builder	Full	Full	Full	Full	Full	Full
LangGraph	No	Full	No	Full	No	Full
CrewAI	No	Full	No	Full	No	Partial
AutoGen	No	Full	No	Full	No	Full
Dify	Full	Full	No	Full	No	Full
Flowise	Full	Partial	No	Full	No	Partial

Key Differentiators

LangGraph: Code-only graph framework. Powerful, but requires Python expertise, API keys, and no visual interface. No built-in Telegram or scheduling.

CrewAI: Role-based multi-agent orchestration. Great for task delegation, but code-only, with no visual builder and API keys required for every model.

AutoGen: Microsoft's multi-agent conversation framework. Code-only, no visual builder, no Telegram integration. Strong for agentic loops.

Dify: Closest visual competitor. Has a canvas builder and self-hosting. Still requires API keys for every model and lacks subscription auth flow.

Flowise: Visual LangChain builder with self-hosting. Limited multi-AI per node and no native Telegram integration or no-API-key execution path.

RAPR AI is the only agent builder combining visual canvas + zero API keys + Telegram triggers + 100% local execution.

FEATURE 02

Shared AI Memory

RAPR AI maintains a shared memory that all AI sessions can access, across sessions, restarts, and model switches.

Persistent Knowledge Store

- 6 categories: preference, fact, project, person, decision, instruction.
- Up to 500 active memories with automatic archiving.
- Pin frequently-used memories for always-on injection.
- Memory decay scoring removes stale entries.
- Search and manage from both web UI and Telegram.
- Everything is encrypted at rest.

FEATURE 03

AI Chat & Multi-Model Support

A unified desktop interface for working with multiple AI models through one dark-mode chat UI. Switch models instantly or let RAPR AI retry with a fallback model.

Built-in AI Models

- Claude Code (Anthropic): advanced reasoning and coding.
- Gemini (Google): multimodal AI with large context windows.
- Codex / ChatGPT (OpenAI): code generation and general AI.
- Ollama: run open-source models locally, fully offline.
- Shell: direct terminal access for system commands.

Custom AI Integrations

- Add any CLI-based AI tool via Settings or by dropping a .py file into the integrations folder.
- Define command templates with {prompt} and {model} placeholders.
- RAPR AI checks CLI availability in real time and shows status badges.

Smart Retry & Fallback

- Automatically retries up to 3 times when a model fails or times out.
- Can switch to a fallback model when API rate limits, timeouts, or network errors happen.

Rich Chat Experience

- Real-time streaming with thinking indicators.
- Drag-and-drop file uploads and clipboard paste support.
- Full-text search across chat history.
- Markdown rendering with syntax highlighting.

FEATURE 04

Multi-Session Workspace

Run four or more independent AI sessions simultaneously, each with its own context, working directory, and terminal.

Session Features

- Truly parallel: start new sessions while others are still running.
- Mix and match AIs across sessions.
- Per-session directory bar keeps each session in its own project folder.
- Session picker chip for quick switching.
- Context resumption loads the last 10 turns when resuming.
- Rename, delete, and organize sessions.

Token & Context Tracking

- Monitor token usage per session with model-specific context windows.
- Claude supports 200K context; Ollama supports 128K context.
- At 70% usage you get a warning; at 80% the system auto-summarizes to free up context.

FEATURE 05

Telegram Remote Control

Control RAPR AI from anywhere using your phone. The built-in Telegram bot exposes key actions through inline keyboard buttons.

Button / Action	What It Does
Claude / Gemini / Codex	Send a prompt to any AI model with one tap
Status	Check system status and active sessions
Resume	Resume last conversation with context injection
Schedule	Create or manage scheduled tasks
Memory	View or add shared AI memories
Approve / Deny	Approve or deny pending destructive actions

Mobile Workflow

- Messages sent from Telegram appear in the web UI and vice versa.
- Files generated by AI are automatically sent to Telegram up to 50 MB.
- Natural language shortcuts let you type conversationally; the bot understands intent.

FEATURE 06

Scheduling & Automation

Schedule AI tasks using plain English such as 'every day at 3pm', and RAPR AI converts it to a cron expression automatically.

Cron Scheduler with Natural Language

- Natural language to cron conversion.
- Enable, disable, and run-now controls.
- Task execution in ephemeral sessions isolated from your main work.
- Manage from both the web UI and Telegram.
- Tasks are stored in SQLite and survive restarts.

FEATURE 07

Heartbeat Monitoring

The Heartbeat system, internally called Soul, scans chat history for incomplete tasks and surfaces forgotten work before it slips.

Never Forget a Task Again

- Pattern-matches phrases like TODO, pending, will do later, and need to finish.
- Configurable scan interval, defaulting to every 24 hours.
- Telegram notifications with action buttons.
- Prioritizes outstanding work from any session.
- Automatically detects stale commitments.

FEATURE 08

Pipeline Workflows

Build workflows that chain multiple AI actions together, with sequential and parallel execution, conditional logic, and context passing.

Multi-Step Automation

- Approval gates for sensitive steps.
- Cost estimation before execution.
- Stored templates in database.
- Trigger from web UI or Telegram.
- Error handling and retry logic.

FEATURE 09

Plugin Ecosystem

RAPR AI ships with pre-configured plugins that handle authentication, prompt injection, and one-click connection for popular services.

Plugin	Category	What It Enables	Status
GitHub	Development	Repos, issues, PRs, code search	Live
Slack	Communication	Send messages, read channels, search	In Dev
Notion	Productivity	Pages, databases, search content	In Dev
Canva	Design	Create designs, manage brand assets	In Dev
Figma	Design	Browse files, inspect designs, export	In Dev
Airtable	Data	Read/write records, query bases	In Dev
Google Workspace	Productivity	Calendar, Docs, Sheets, Gmail	In Dev
Linear / Jira	Project Mgmt	Issues, sprints, project tracking	In Dev
Zapier	Automation	Connect to 5000+ apps via Zaps	In Dev
FireCrawl	Data	Web scraping and data extraction	In Dev
PostgreSQL	Database	Direct database queries	In Dev
Gamma	Presentations	AI-powered slide generation	In Dev
NotebookLM	Research	AI-powered research assistant	In Dev

Plugin Handling

- Plugins are hot-loadable with no restart needed.
- OAuth plugins support one-click Connect, with fallback to manual API key paste.
- All tokens are encrypted in the local vault.

FEATURE 10

Security & Encryption

RAPR AI protects keys, tokens, access, file uploads, and destructive actions with multiple layers of defense.

Feature	Details
PIN/Password Auth	Session cookies with brute-force lockout persisted to DB
Token Vault	Fernet encryption for all API keys and tokens
CSRF Protection	Double-submit cookie pattern on state-changing requests
Security Headers	CSP, X-Frame-Options, Referrer-Policy
Rate Limiting	Login and protected local endpoint thresholds are configurable
File Validation	Extension allowlist and 50 MB upload limit
API Auth	Bearer token authentication for protected local endpoints
Approval System	Destructive actions require explicit approval

FEATURE 11

Cloud Backup

Back up the RAPR AI database, including sessions, memories, schedules, and tokens, to a local folder today; cloud providers are in development.

Automatic & Manual Backup

- Local folder backup is live now.
- OneDrive, Google Drive, and Dropbox are coming soon.
- Full SQLite backup with SHA-256 checksum verification.
- Scheduled backups daily or weekly, plus manual trigger.
- Job history with status, file size, and timestamps.
- Atomic restore with rollback on failure.

FEATURE 12

Desktop Experience

A polished local app experience with guided setup, file browsing, and usage visibility.

First-Run Setup Wizard

- Guided multi-step wizard for Gemini, Telegram, Claude, and Codex.
- Live status badges show what is installed and configured.
- Smart skip logic hides unnecessary fields.

File Browser

- Built-in directory navigation with Windows drive letter switching.
- Native folder picker support.
- Per-session working directories keep projects organized.

Usage & Budget Tracking

- Monitor AI usage per model: minutes for CLI, tokens for API.
- Set daily budgets with warning thresholds.
- Cost-per-token pricing for Claude, Gemini, and OpenAI models.
- Block execution when caps are exceeded.

[GET STARTED](#)

Build AI agents. Any model. Free.

Download the latest version, follow the setup wizard, and start working with AI like never before.

<https://raprai.com/download>

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