tasky_create_task

Description

Creates a new Tasky task with title, description, due date, tags, and other properties.

Purpose

Add new tasks to the system with full metadata support including tags, due dates, assigned agents, and execution paths.

Parameters

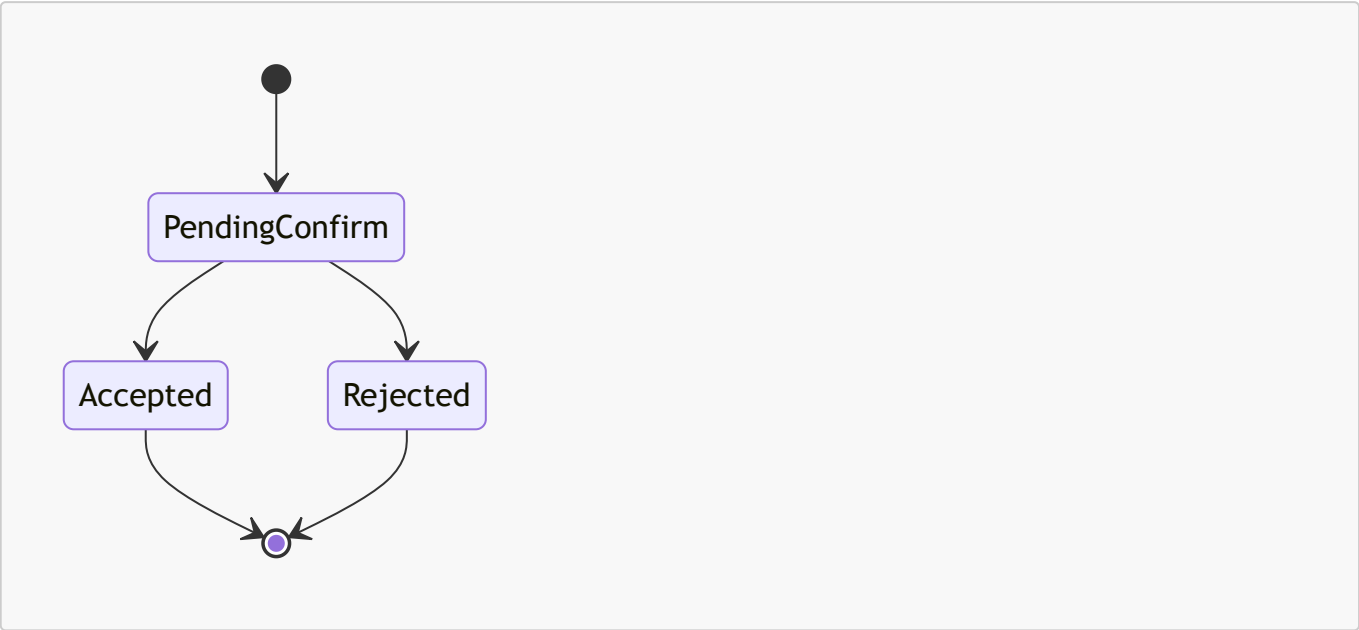| Parameter	Type	Required	Description
title	string	☑	Task title
description	string	✘	Task description
dueDate	string	✘	Due date in ISO format (e.g., "2025-12-31T23:59:59Z")
tags	string[]	✘	Array of tag strings
affectedFiles	string[]	✘	Array of file paths related to the task
estimatedDuration	number	✘	Estimated duration in minutes
dependencies	string[]	✘	Array of dependency task IDs
reminderEnabled	boolean	✘	Enable reminder for this task
reminderTime	string	✘	Reminder time in HH:MM format
assignedAgent	"claude" | "gemini"	✘	Assigned AI agent
executionPath	string	✘	Path for task execution
random_string	string	✘	Legacy support - used as title if title missing

UI Flow

1. **User Input:** "Create a task to fix the login bug due tomorrow"
2. **AI Processing:** Parses natural language into structured parameters
3. **Tool Call:** mcpCall invoked with extracted parameters
4. **Confirmation:** User sees confirmation overlay with tool details
5. **Execution:** Upon approval, task created in database
6. **Result Display:** Success card shows created task details with ID
7. **Chat History:** Result persisted as adaptive card in conversation
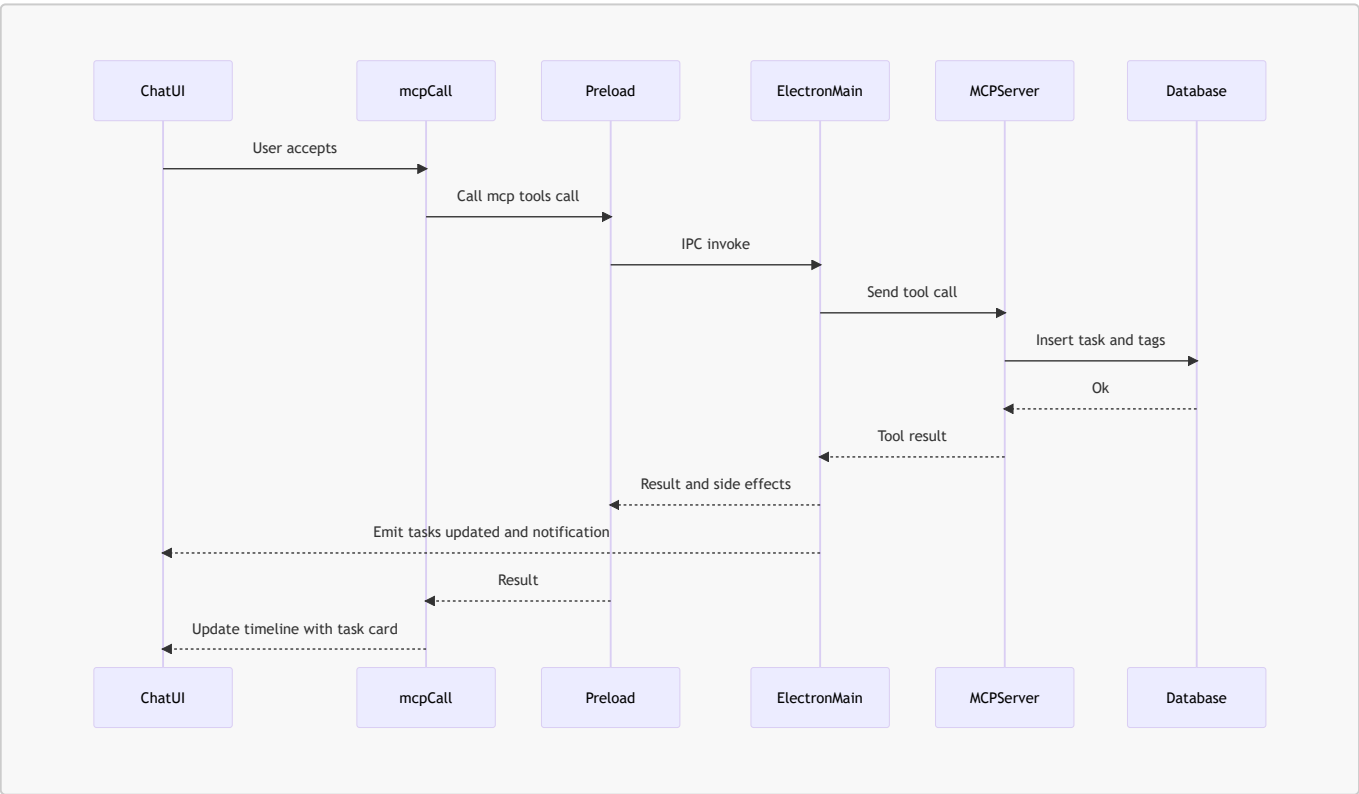
Database Operations

Confirmation Outcomes

This tool requires user confirmation. Auto accept is not used for creation.
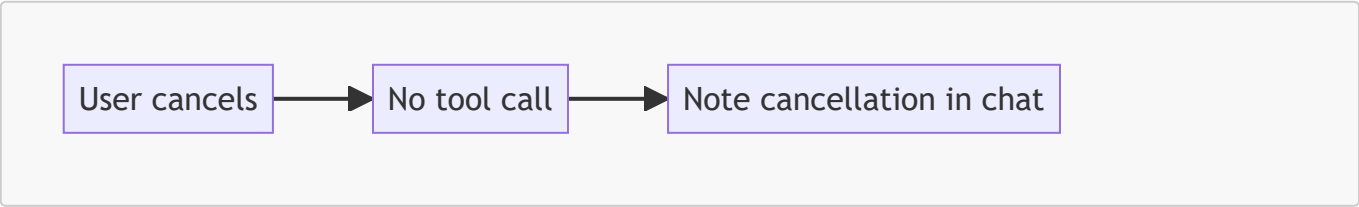
State

Accepted

Rejected

Auto accept

- Not applicable for create

Side effects on accept

- Emits `tasky:tasks-updated` event
- OS notification for created task
- Adaptive card snapshot embedded in chat

See also: State Management Diagrams

Adaptive Card Response

Snapshot shape

```
{
  "__taskyCard": {
    "kind": "result",
    "tool": "tasky_create_task",
    "status": "success",
    "data": {
      "schema": {
        "id": "fix_login_bug_20250907_143022_abc123",
        "title": "Fix login bug",
        "description": "Users cannot log in with Google OAuth",
        "dueDate": "2025-09-08T17:00:00.000Z",
        "tags": ["bug","authentication","urgent"],
        "assignedAgent": "claude",
        "estimatedDuration": 120
      },
      "status": "PENDING",
      "reminderEnabled": false
    },
    "meta": { "operation": "create", "timestamp": "2025-09-17T16:00:00.000Z" }
  }
}
```

Error variant

```
{
  "__taskyCard": {
    "kind": "result",
    "tool": "tasky_create_task",
    "status": "error",
    "error": { "message": "title is required", "code": "VALIDATION" }
  }
}
```

Renderer notes

- Success: Task card with badges and tags.
- Error: Inline error with missing fields.

```sql
-- Main task insertion
INSERT INTO tasks (
  id, title, description, status, created_at, updated_at,
  due_date, reminder_enabled, result,
  completed_at, assigned_agent, execution_path, metadata
) VALUES (
  @id, @title, @description, 'PENDING', @created_at, @updated_at,
  @due_date, 0, @reminder_enabled, NULL,
  NULL, @assigned_agent, @execution_path, @metadata
);

-- Tag insertion (if tags provided)
INSERT INTO task_tags (task_id, tag) VALUES (?, ?);
```

MCP Request Example

```bash
curl -X POST http://localhost:7844/mcp \
  -H "Content-Type: application/json" \
  -d '{
    "jsonrpc": "2.0",
    "id": 1,
    "method": "tools/call",
    "params": {
      "name": "tasky_create_task",
      "arguments": {
        "title": "Fix login bug",
        "description": "Users cannot log in with Google OAuth",
        "dueDate": "2025-09-08T17:00:00Z",
        "tags": ["bug", "authentication", "urgent"],
        "assignedAgent": "claude",
        "estimatedDuration": 120
      }
    }
  }'
```

Response Format

```json
{
  "jsonrpc": "2.0",
  "id": 1,
  "result": {
    "content": [
```

```
    {
      "type": "text",
      "text": "Task fix_login_bug_20250907_143022_abc123: Fix login bug"
    },
    {
      "type": "text",
      "text": "{\"schema\":
{\"id\":\"fix_login_bug_20250907_143022_abc123\",\"title\":\"Fix login
bug\",\"description\":\"Users cannot log in with Google
OAuth\",\"createdAt\":\"2025-09-07T14:30:22.000Z\",\"updatedAt\":\"2025-09-
07T14:30:22.000Z\",\"dueDate\":\"2025-09-08T17:00:00.000Z\",\"tags\":
[\"bug\",\"authentication\",\"urgent\"],\"assignedAgent\":\"claude\",\"estimatedDu
ration\":120},\"status\":\"PENDING\",\"reminderEnabled\":false}"
    }
  ]
 }
}
```

UI Components

- **ConfirmOverlay:** Shows confirmation dialog with tool parameters
- **ToolCallDisplay:** Renders tool execution status
- **AdaptiveCardRenderer:** Displays structured task result
- **MessageContainer:** Integrates result into chat timeline

Error Handling

Error	Cause	Response
Missing title	`title` parameter not provided	`{"content": [{"type": "text", "text": "title is required"}], "isError": true}`
Database error	SQLite operation failure	Error message with database details
Invalid date	Malformed `dueDate`	Error during date parsing

Implementation Details

- **Task ID Generation:** `{title_prefix}_{YYYYMMDD_HHMMSS}_{uuid8}`
- **Default Status:** All new tasks start with `PENDING` status
- **Notification:** Attempts to notify main Tasky app via HTTP POST to `/notify-task-created`
- **Transaction Safety:** Task and tags inserted within database transaction

Related Components

- `tasky-mcp-agent/src/mcp-server.ts:21-77` - Tool definition and handler
- `tasky-mcp-agent/src/utils/task-bridge.ts:128-172` - Database operations
- `src/components/chat/ConfirmOverlay.tsx` - User confirmation UI

- `src/components/chat/AdaptiveCardRenderer.tsx` - Result display

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