

tasky_delete_reminder

Description

Permanently deletes a Tasky reminder by ID, removing all associated schedule data and references.

Purpose

Remove reminders from the system when they are no longer needed. This is a destructive operation that cannot be undone and requires explicit user confirmation.

Parameters

Parameter	Type	Required	Description
id	string	<input checked="" type="checkbox"/>	Reminder ID to delete

UI Flow

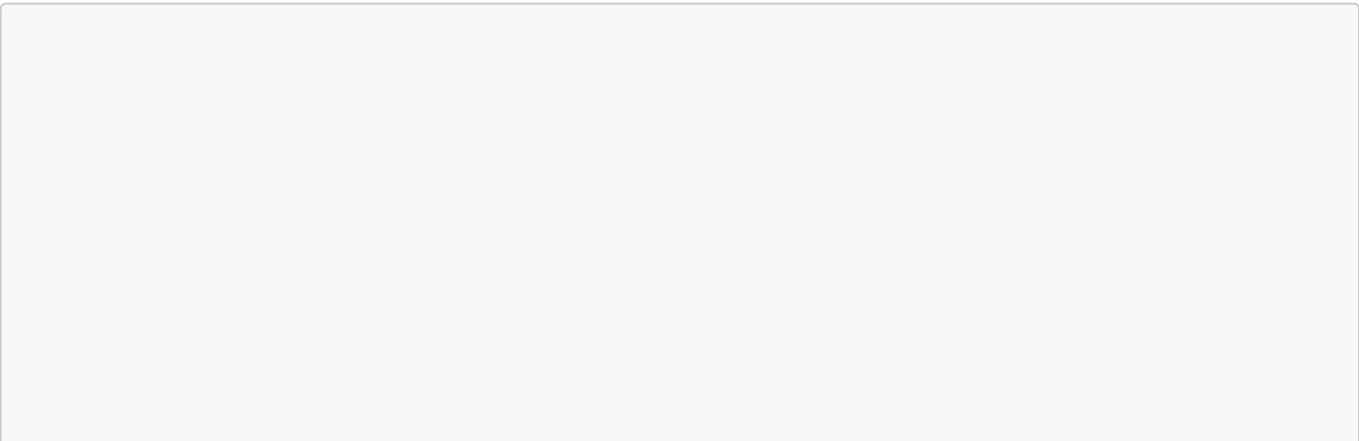
- User Input:** "Delete reminder ABC123" or "Remove my daily email reminder"
- AI Processing:** Identifies reminder ID to delete
- Tool Call:** `mcpCall` invoked with reminder ID
- ⚠ Confirmation Required:** User sees destructive action warning
- Confirmation Dialog:** Shows:
 - Reminder details to be deleted (message, schedule)
 - Warning about permanent removal
 - Impact on notification schedule
- Execution:** Upon user approval, reminder permanently removed
- Result Display:** Confirmation message with deletion summary

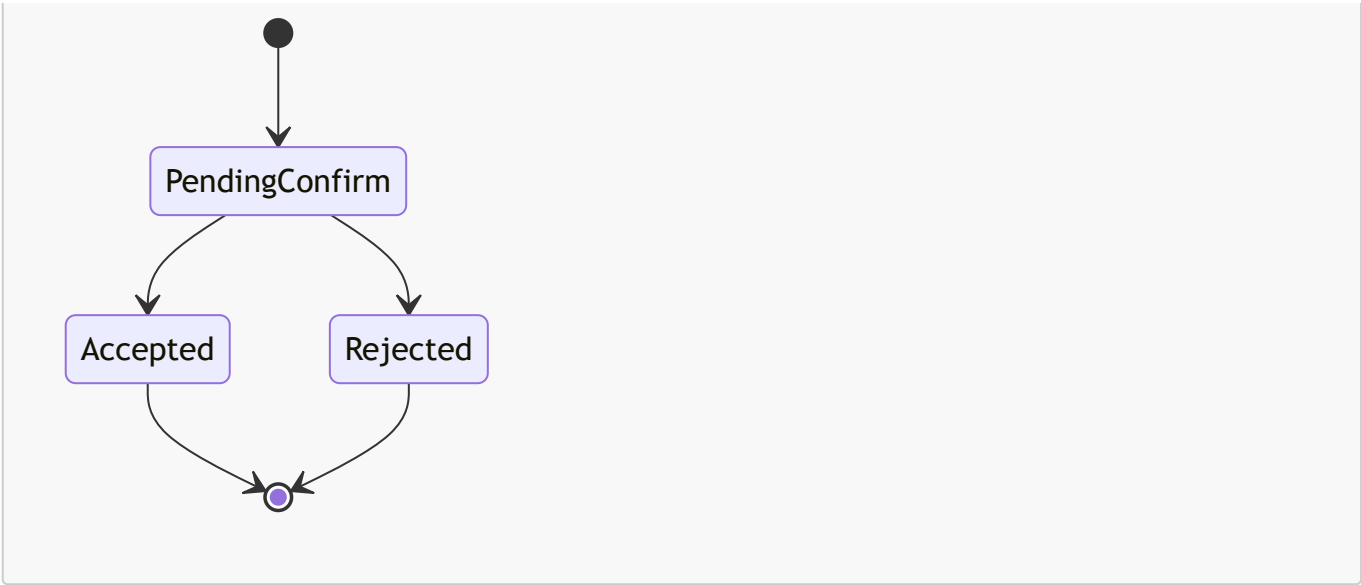
Database Operations

Confirmation Outcomes

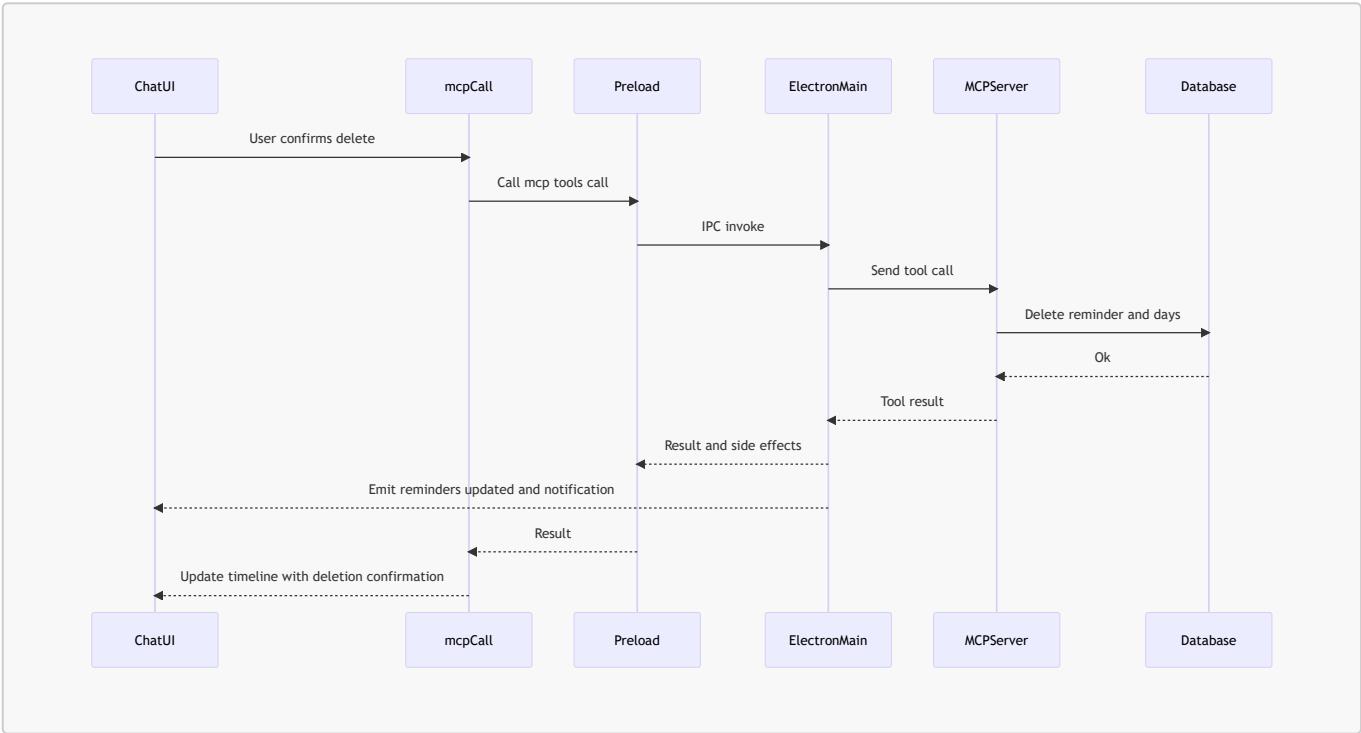
This tool requires user confirmation. Auto accept is not used for delete.

State

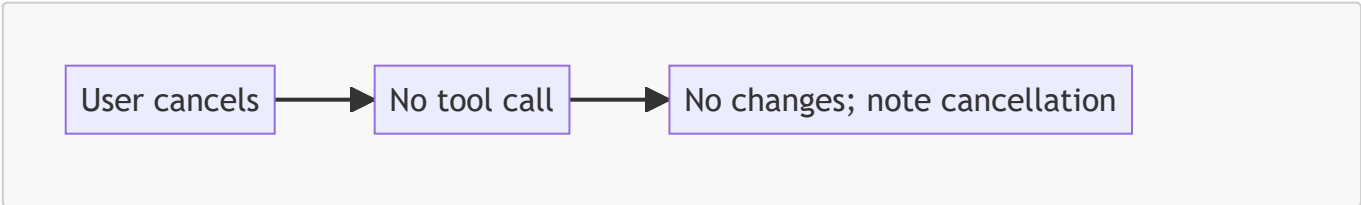




Accepted



Rejected



Auto accept

- Not applicable for delete

Side effects on accept

- Emits `tasky:reminders-updated` event
- OS notification for deleted reminder

- Adaptive card snapshot embedded in chat

See also: [State Management Diagrams](#)

Adaptive Card Response

Tasky embeds a snapshot in the assistant message for rendering. The renderer ([AdaptiveCardRenderer.tsx](#)) reads `__taskyCard` and selects a card variant.

Snapshot shape

```
{
  "__taskyCard": {
    "kind": "result",
    "tool": "tasky_delete_reminder",
    "status": "success",
    "data": {
      "id": "abc123",
      "message": "Check emails",
      "time": "09:00",
      "days": ["monday", "tuesday", "wednesday", "thursday", "friday"],
      "enabled": true
    },
    "meta": {
      "operation": "delete",
      "timestamp": "2025-09-17T16:00:00.000Z"
    }
  }
}
```

Error variant

```
{
  "__taskyCard": {
    "kind": "result",
    "tool": "tasky_delete_reminder",
    "status": "error",
    "error": {
      "message": "Reminder not found",
      "code": "NOT_FOUND"
    }
  }
}
```

Renderer notes

- Success: Show a deletion confirmation card with summary and removed schedule details.
- Error: Show inline error card with retry action if applicable.
- Unknown shape: Fallback to raw JSON rendering.

```
-- Transaction ensures referential integrity
BEGIN TRANSACTION;

-- Delete associated days first (foreign key constraint)
DELETE FROM reminder_days WHERE reminder_id = ?;

-- Delete the main reminder record
DELETE FROM reminders WHERE id = ?;

COMMIT;
```

UI Components

- **ConfirmOverlay:** Enhanced confirmation dialog with:
 - ⚠ Destructive action warning
 - Reminder details preview (message, time, days)
 - Schedule impact summary
 - "This action cannot be undone" message
 - Explicit "Delete Reminder" / "Cancel" buttons
- **ToolCallDisplay:** Shows deletion operation status
- **AdaptiveCardRenderer:** Displays confirmation result
- **MessageContainer:** Integrates deletion result in chat

MCP Request Example

```
curl -X POST http://localhost:7845/mcp \
-H "Content-Type: application/json" \
-d '{
  "jsonrpc": "2.0",
  "id": 11,
  "method": "tools/call",
  "params": {
    "name": "tasky_delete_reminder",
    "arguments": {
      "id": "reminder_20250907_164500_abc123"
    }
  }
}'
```

Response Format

```
{
  "jsonrpc": "2.0",
  "id": 11,
  "result": {
    "content": [
```

```
{
  "type": "text",
  "text": "Reminder deleted successfully"
}
]
```

Confirmation Flow

Step 1: Tool Request

User: "Delete my email reminder"
AI: Identifies reminder and calls tasky_delete_reminder

Step 2: Confirmation Dialog

 Delete Reminder

Message: Check emails and respond to urgent items
Schedule: Weekdays at 9:00 AM
Next: Tomorrow at 9:00 AM

This action cannot be undone.
All notification schedules will be permanently removed.

[Delete Reminder] [Cancel]

Step 3: Result Display

☒ Reminder Deleted

Successfully deleted reminder:
"Check emails and respond to urgent items"

- Removed main reminder record
- Deleted weekday schedule (5 days)
- Cleared from notification system
- No further notifications will fire

Schedule Impact Analysis

The confirmation dialog shows the impact of deletion:

Schedule Type	Impact Description
Daily	"No more daily notifications at [time]"
Weekdays	"No more weekday notifications at [time]"
Weekends	"No more weekend notifications at [time]"
Custom days	"No more notifications on [day list] at [time]"
One-time	"Scheduled notification cancelled"

Cascading Deletions

Component	Action
Reminder Record	Permanently removed from reminders table
Schedule Days	All days deleted from reminder_days table
Notification Queue	Pending notifications cancelled
Chat History	Tool results preserved in conversation
Related Tasks	Task reminders remain separate

Error Handling

Error	Cause	Response
Missing ID	id parameter not provided	{"content": [{"type": "text", "text": "id is required"}], "isError": true}
Reminder not found	ID doesn't exist	Silent success (idempotent operation)
Database error	SQLite operation failure	Transaction rollback with error details
Foreign key violation	Constraint issues	Error message with relationship details

Security Considerations

- **Confirmation Required:** Always requires explicit user approval
- **No Bulk Delete:** Single reminder deletion only
- **Audit Trail:** Deletion logged in chat history
- **Transaction Safety:** Atomic operation prevents partial deletions
- **User Intent:** AI must clearly identify reminder to delete

Transaction Details

```
-- Atomic deletion transaction
BEGIN IMMEDIATE TRANSACTION;

-- Validate reminder exists (optional)
SELECT COUNT(*) FROM reminders WHERE id = ?;

-- Delete days first to satisfy foreign key constraints
DELETE FROM reminder_days WHERE reminder_id = ?;

-- Delete main reminder record
DELETE FROM reminders WHERE id = ?;

-- Commit all changes atomically
COMMIT;
```

Common Usage Patterns

Direct ID Deletion

- "Delete reminder ABC123"
- "Remove reminder with ID XYZ789"

Natural Language Deletion

- "Delete my morning email reminder" (AI resolves to ID)
- "Remove the weekend planning reminder"
- "Cancel my daily standup notification"

Schedule-Based Requests

- "Delete all my 9 AM reminders" → Requires individual confirmations
- "Remove weekend reminders" → User must specify which ones

Recovery Options

⚠ **Important:** Reminder deletion is permanent. No built-in recovery options exist.

Prevention Measures:

- Always show reminder details in confirmation
- Require explicit user approval
- Consider disabling instead of deleting
- Display schedule impact clearly
- Backup database before bulk operations

Alternative to Deletion:

- **Disable Reminder:** `tasky_update_reminder` with `enabled: false`
- **Temporary Pause:** Keep reminder but stop notifications

Performance Impact

- **Fast Operation:** Single transaction with minimal queries
- **Index Usage:** Benefits from primary key lookup
- **Minimal I/O:** Only affected records modified
- **Lock Duration:** Brief exclusive lock during transaction
- **Notification Cleanup:** Scheduler automatically handles removed reminders

Integration with Notification System

Deleted reminders immediately affect the notification scheduler:

- **Queue Removal:** Pending notifications cancelled
- **Schedule Update:** Next occurrence calculations updated
- **Memory Cleanup:** Reminder data purged from active memory
- **Log Update:** Deletion logged for debugging

Natural Language Processing

The AI handles various deletion requests:

Specific Identification

- "Delete reminder ID ABC123" → Direct ID match
- "Remove my 9 AM email reminder" → Time + content match
- "Cancel the weekday standup notification" → Schedule + content match

Ambiguous Requests

- "Delete my morning reminders" → AI asks for clarification
- "Remove all my reminders" → AI requires individual confirmation
- "Cancel notifications" → AI clarifies scope

Related Operations

Alternatives to Deletion

- **Disable:** `tasky_update_reminder` with `enabled: false`
- **Modify:** `tasky_update_reminder` to change schedule/content
- **Temporary:** Disable during vacations, re-enable later

Bulk Operations

- **List First:** Use `tasky_list_reminders` to review candidates
- **Individual Deletion:** Each deletion requires separate confirmation
- **Batch Scripts:** External tools for administrative bulk operations

Implementation Details

- **Tool Handler:** `tasky-mcp-agent/src/mcp-server.ts:297-319`

- **Database Logic:** `tasky-mcp-agent/src/utils/reminder-bridge.ts`
- **UI Confirmation:** `src/components/chat/ConfirmOverlay.tsx`
- **Result Display:** `src/components/chat/AdaptiveCardRenderer.tsx`

Best Practices

1. **Confirm Before Delete:** Always show reminder details and schedule
2. **Consider Alternatives:** Disable vs. delete for temporary needs
3. **Document Reason:** Add context to chat about why deleting
4. **Schedule Awareness:** Understand impact on notification patterns
5. **Backup Important:** Consider backup before bulk deletions

Related Components

- `tasky-mcp-agent/src/mcp-server.ts:297-319` - Tool definition and handler
- `tasky-mcp-agent/src/utils/reminder-bridge.ts` - Database deletion logic
- `src/components/chat/ConfirmOverlay.tsx` - Destructive action confirmation
- `src/ai/mcp-tools.ts:102-111` - Confirmation logic for destructive operations