tasky_list_reminders

Description

Lists all Tasky reminders with optional filtering by enabled status.

Purpose

Query and display existing reminders to help users review their notification schedule. This is a read-only operation that provides comprehensive reminder visibility with schedule details.

Parameters

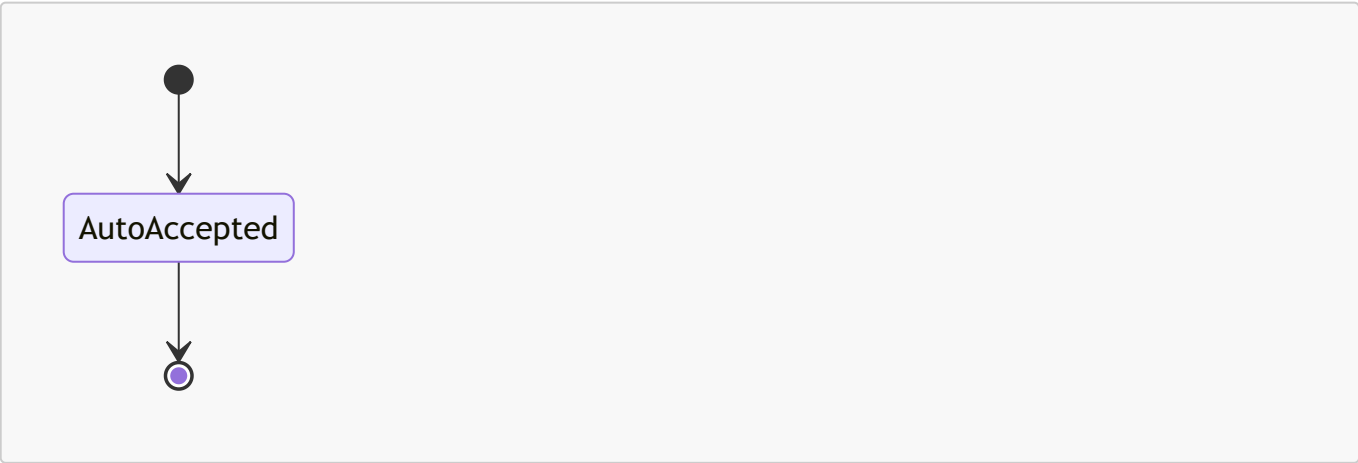| Parameter	Type	Required	Description
enabled	boolean	✘	Filter by enabled status (true = active only, false = disabled only, undefined = all)

UI Flow

1. **User Input:** "Show me my reminders" or "List all active reminders"
2. **Auto-Execution:** No confirmation needed (read-only operation)
3. **AI Processing:** Extracts filter requirements from natural language
4. **Tool Call:** `mcpCall` invoked with optional filter parameters
5. **Result Display:** Reminders shown as structured cards in chat
6. **Schedule Visualization:** Each reminder displays its schedule pattern
7. **Status Indicators:** Clear enabled/disabled visual status
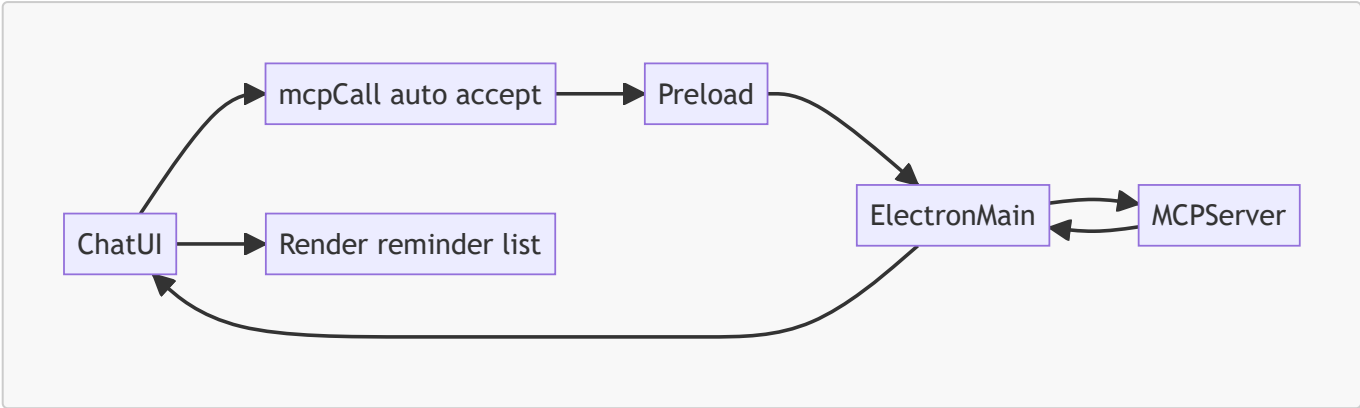
Database Operations

Confirmation Outcomes

This is a read only operation and is auto accepted.

State

Auto accept

Rejected

- Not applicable for read only tool

Accepted

- Same as auto accept for read only tool

Side effects

- Minimal UI side effects; no notifications
- Adaptive card snapshot embedded in chat

See also: State Management Diagrams

Adaptive Card Response

Snapshot shape

```
{
  "__taskyCard": {
    "kind": "result",
    "tool": "tasky_list_reminders",
    "status": "success",
    "data": [
      { "id": "abc123", "message": "Check emails", "time": "09:00", "days":
["monday","tuesday","wednesday","thursday","friday"], "enabled": true },
      { "id": "def456", "message": "Weekend planning", "time": "10:00", "days":
["saturday","sunday"], "enabled": false }
    ]
  }
}
```

Error variant

```
{
  "__taskyCard": {
```

```
    "kind": "result",
    "tool": "tasky_list_reminders",
    "status": "error",
    "error": { "message": "Database error" }
  }
}
```

Renderer notes

- Success: Renders a list of reminder cards with schedule and status.
- Error: Inline error card with retry option.

```sql
-- Main query to fetch reminders (handled by ReminderBridge)
SELECT * FROM reminders;

-- Fetch associated days for recurring reminders
SELECT reminder_id, day FROM reminder_days;

-- Applied filters in application code:
-- - enabled status filtering
-- - sorting by creation date
-- - schedule pattern grouping
```

MCP Request Examples

List All Reminders

```
curl -X POST http://localhost:7844/mcp \
  -H "Content-Type: application/json" \
  -d '{
    "jsonrpc": "2.0",
    "id": 7,
    "method": "tools/call",
    "params": {
      "name": "tasky_list_reminders",
      "arguments": {}
    }
  }'
```

List Only Active Reminders

```
curl -X POST http://localhost:7844/mcp \
  -H "Content-Type: application/json" \
  -d '{
    "jsonrpc": "2.0",
    "id": 8,
    "method": "tools/call",
```

```
      "params": {
        "name": "tasky_list_reminders",
        "arguments": {
          "enabled": true
        }
      }
    }'
```

List Only Disabled Reminders

```
curl -X POST http://localhost:7844/mcp \
  -H "Content-Type: application/json" \
  -d '{
    "jsonrpc": "2.0",
    "id": 9,
    "method": "tools/call",
    "params": {
      "name": "tasky_list_reminders",
      "arguments": {
        "enabled": false
      }
    }
  }'
```

Response Format

```
{
  "jsonrpc": "2.0",
  "id": 7,
  "result": {
    "content": [
      {
        "type": "text",
        "text": "Found 3 reminders"
      },
      {
        "type": "text",
        "text": "[{\"id\":\"reminder_20250907_164500_abc123\",\"message\":\"Check
emails and respond to urgent items\",\"time\":\"09:00\",\"days\":
[\"monday\",\"tuesday\",\"wednesday\",\"thursday\",\"friday\"],\"enabled\":true,\"
oneTime\":false,\"createdAt\":\"2025-09-
07T16:45:00.000Z\",\"nextOccurrence\":\"2025-09-08T09:00:00.000Z\"},
{\"id\":\"reminder_20250907_170000_def456\",\"message\":\"Take lunch
break\",\"time\":\"12:30\",\"days\":
[\"monday\",\"tuesday\",\"wednesday\",\"thursday\",\"friday\"],\"enabled\":true,\"
oneTime\":false,\"createdAt\":\"2025-09-
07T17:00:00.000Z\",\"nextOccurrence\":\"2025-09-08T12:30:00.000Z\"},
{\"id\":\"reminder_20250907_180000_ghi789\",\"message\":\"Weekend planning
session\",\"time\":\"10:00\",\"days\":
```

```
[\"saturday\"],\"enabled\":false,\"oneTime\":false,\"createdAt\":\"2025-09-
07T18:00:00.000Z\"}]"
        }
    ]
  }
}
```

UI Components

- **MessageContainer:** Displays reminder list in chat timeline
- **AdaptiveCardRenderer:** Formats each reminder as a card with:
  - 📋 Reminder message
  - ⏰ Time display with AM/PM
  - 🗓 Schedule pattern (weekday chips)
  - 🔔 Enabled/disabled status badge
  - ⏭ Next occurrence time
  - 🔁 Recurring vs. one-time indicator
- **ToolCallDisplay:** Shows list operation status (minimal for read-only)

Reminder Card Display Examples

Active Weekday Reminder

```
🔔 Check emails and respond to urgent items

⏰ 9:00 AM
🗓 Mon Tue Wed Thu Fri
⏭ Next: Tomorrow at 9:00 AM
☑ Enabled
```

Disabled Weekend Reminder

```
📋 Weekend planning session

⏰ 10:00 AM
🗓 Sat
✖ Disabled
🔁 Recurring
```

One-Time Reminder

```
⏰ Take a break

⏰ 3:10 PM
🗓 One-time
```

```
⏭  In 15 minutes
☑  Enabled
```

Filter Examples

Status-Based Filtering

- **All Active:** "Show my active reminders"
- **All Disabled:** "List disabled reminders"
- **All Reminders:** "Show all my reminders"

Natural Language Queries

- **By Schedule:** "What reminders do I have for weekdays?"
- **By Time:** "Show my morning reminders"
- **By Status:** "Which reminders are turned off?"

Sorting and Organization

Default Sorting

1. **Enabled Status:** Enabled reminders first
2. **Next Occurrence:** Soonest reminders first
3. **Creation Date:** Newer reminders first for ties

Grouping Patterns

- **Daily Reminders:** Every day at same time
- **Weekday Reminders:** Monday-Friday pattern
- **Weekend Reminders:** Saturday-Sunday pattern
- **Custom Patterns:** Specific day combinations
- **One-Time:** Non-recurring reminders

Schedule Pattern Recognition

The system recognizes common patterns for better display:

Days	Display	Description
All 7 days	"Daily"	Every day
Mon-Fri	"Weekdays"	Business days only
Sat-Sun	"Weekends"	Weekend days only
Specific days	Day chips	Custom pattern
Empty array	"One-time"	Non-recurring

Performance Considerations

- **Read-Only:** No database modifications, safe for frequent calls
- **Join Operation:** Days joined in application layer
- **Sorting:** Computed next occurrence for proper ordering
- **Filtering:** Applied after data fetch for simplicity
- **Caching:** No caching - always returns fresh data

Next Occurrence Calculation

For recurring reminders, the system calculates the next occurrence:

```
const calculateNextOccurrence = (time: string, days: string[]) => {
  const now = new Date();
  const [hours, minutes] = time.split(':').map(Number);

  // Find next matching day
  const nextDay = findNextMatchingDay(days, now);

  // Set time
  nextDay.setHours(hours, minutes, 0, 0);

  return nextDay;
};
```

Error Handling

Error	Cause	Response
Database error	SQLite query failure	Error message with database details
Invalid enabled value	Non-boolean enabled parameter	Type coercion or validation error
Empty result set	No reminders match filter	Empty array with count message

Common Use Cases

1. **Daily Review:** {} - Show all reminders for review
2. **Active Only:** {"enabled": true} - See what's currently working
3. **Maintenance:** {"enabled": false} - Find disabled reminders to clean up
4. **Schedule Planning:** Review patterns to avoid conflicts

Integration with Main App

Listed reminders integrate with the notification system:

- **Next Occurrence:** Used by scheduler for timing
- **Enabled Status:** Only enabled reminders fire notifications
- **Message Content:** Displayed in system notifications
- **Pattern Recognition:** Helps users understand their schedule

UI State Management

- **Auto-Refresh:** List updates when reminders are modified
- **Status Indicators:** Clear visual enabled/disabled state
- **Schedule Preview:** Shows upcoming notifications
- **Edit Actions:** Cards can link to update/delete operations

Accessibility Features

- **Screen Reader:** Semantic markup for reminder cards
- **Color Coding:** Status indicators with text labels
- **Time Format:** Consistent 12/24-hour display based on locale
- **Keyboard Navigation:** Card focus and interaction support

Related Components

- `tasky-mcp-agent/src/mcp-server.ts:244-266` - Tool definition and handler
- `tasky-mcp-agent/src/utils/reminder-bridge.ts` - Database query operations
- `src/components/chat/AdaptiveCardRenderer.tsx` - Reminder card display
- `src/components/chat/MessageContainer.tsx` - List integration in chat

Best Practices

1. **Regular Review:** List reminders periodically to maintain relevance
2. **Status Management:** Disable instead of delete for temporary changes
3. **Pattern Recognition:** Group similar reminders for easier management
4. **Schedule Awareness:** Review to avoid notification overload
5. **Cleanup:** Regularly remove obsolete reminders