

# Community Watchers - Visual Guide

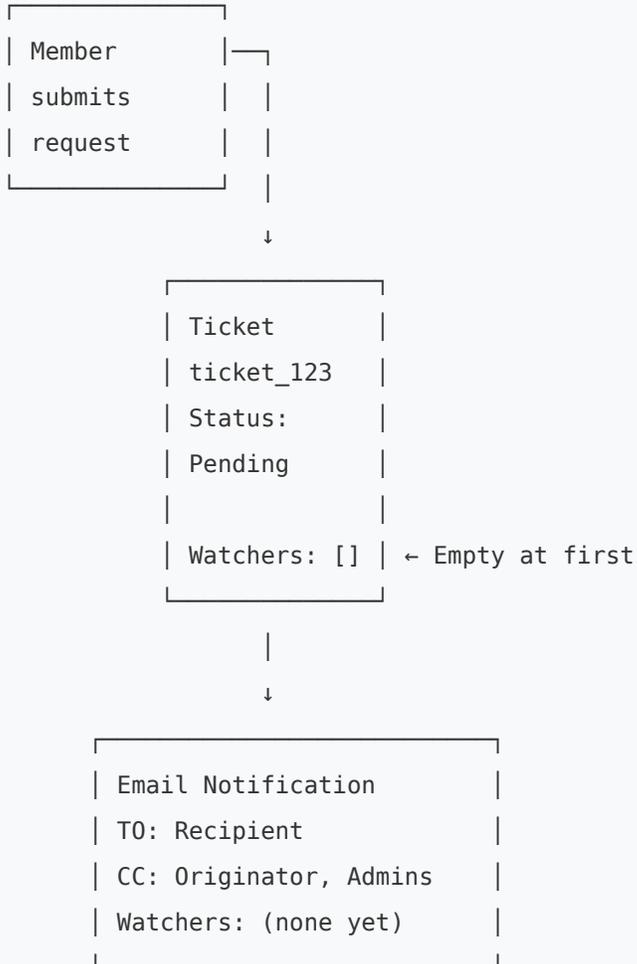
## Community Watchers - Visual Guide

A visual walkthrough of the watchers feature

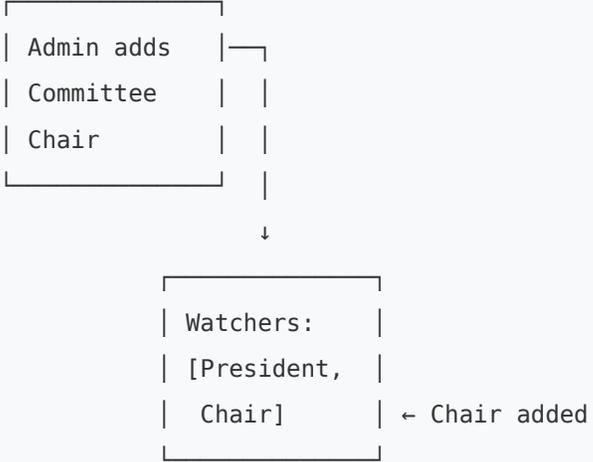
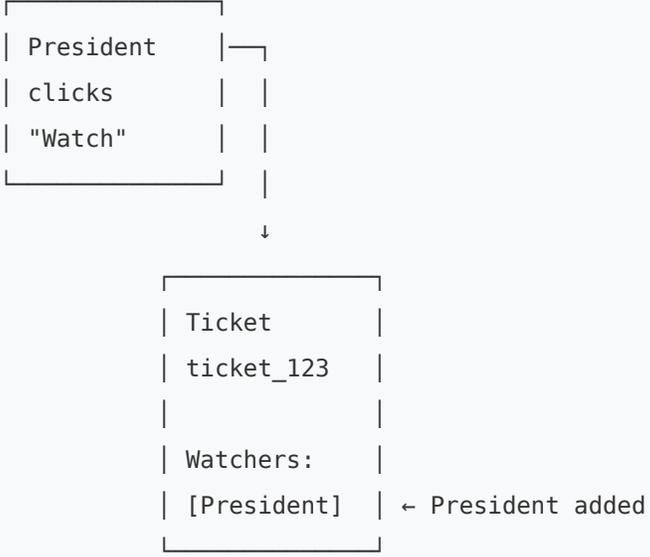
### How Watchers Work - Flow Diagram

#### TICKET LIFECYCLE

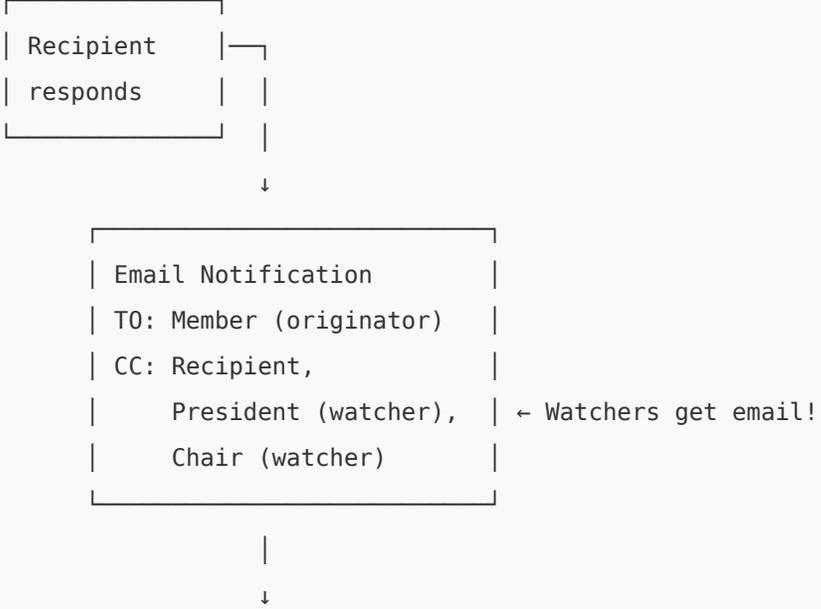
##### 1. TICKET CREATED



2. WATCHERS ADDED



3. RESPONSE ADDED





```
| Final Email |
| TO: Recipient |
| CC: Member, |
|   Chair (watcher) |
```

Ticket closed  
Chair can unwatch

## Watchers Section UI Layout

### TICKET DETAILS

```
Ticket ID: ticket_abc123
Status: Pending Response
Subject: Request for Financial Records
```

### MESSAGE THREAD

```
[Messages displayed here...]
```

### TICKET WATCHERS

Watchers receive notifications on all ticket updates.

Current Watchers:

```
 Alice Smith (alice@pmtnm.org) [Remove]
 Bob Jones (bob@pmtnm.org) [Remove]
 Carol White (carol@pmtnm.org) [Remove]
```

```
  Watch This Ticket | ← If not watching
Get notified of all updates
```

OR

[ ✓ Watching - Click to Unwatch ] ← If watching

ADD WATCHER

Email Address \*

[ \_\_\_\_\_ ]

Name (optional)

[ \_\_\_\_\_ ]

[ Add Watcher ]

## Email Notification with Watchers

From: PMTNM Workflow System <workflow-manager@pmtnm.org>

To: member@example.com

CC: recipient@pmtnm.org, watcher1@pmtnm.org,

watcher2@pmtnm.org, workflow-manager@pmtnm.org

Subject: [Workflow Ticket #abc123] Response: Request

New Workflow Request

Ticket ID: ticket\_abc123

Workflow Type: Financial Records Access Request

Requested By: Jane Member (member@example.com)

[Email content here...]

Take Action:

I have fulfilled this request

Respond with Message

Watching this ticket?

← Watcher Notice

You're receiving this because you're watching ticket updates.

Visit My Requests to manage your subscriptions.

This is an automated message from PMTNM Workflow System

## Admin Dashboard View

WORKFLOW ADMIN DASHBOARD

[Filter: All] [Search: \_\_\_\_\_] [Sort: Newest First]

Financial Records Access Request [Pending Response]

Ticket ID: ticket\_abc123

From: Jane Member → To: secretary-treasurer@pmtnm.org

Created: Jan 9, 2025 | Age: 0 days

Progress:  33%

Timeline:

✓ Created: Jan 9, 2025 9:00 AM

Pending Fulfillment (Deadline: Jan 23, 2025)

Not Resolved

Messages: 1 | Deadline: 14 days

👤 Watchers (3):

President, Audit Chair, Vice President

## Permission Matrix

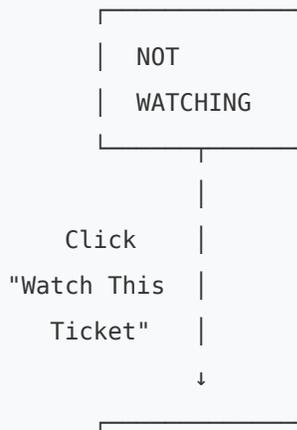
Action	Originator	Recipient	Admin	Watcher
View ticket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Watch ticket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unwatch (self)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Add watcher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remove watcher	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
See watcher list	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respond	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mark fulfilled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mark resolved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

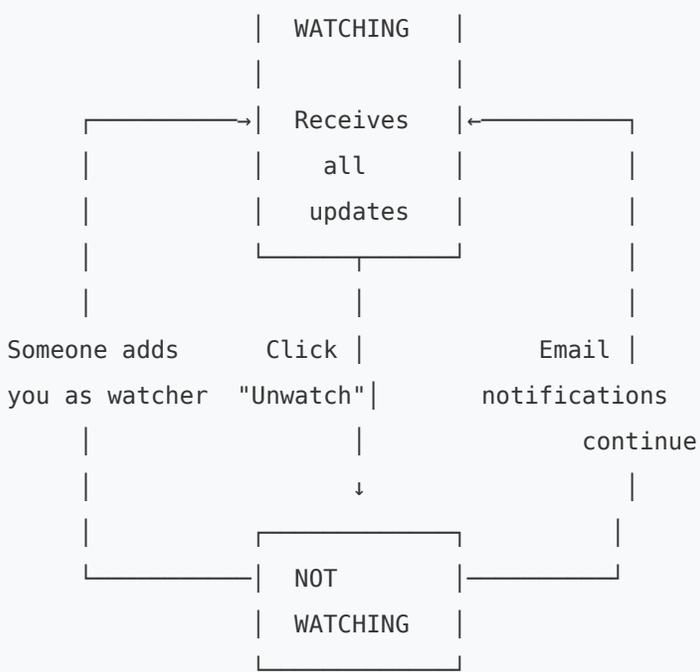
Legend:

= Can perform action

= Cannot perform action

## State Diagram: Watching a Ticket





## Watcher Notification Flow

```
EVENT: Response Added to Ticket
```

↓

```
WorkflowRouter
sendTicketNotification()
```

↓

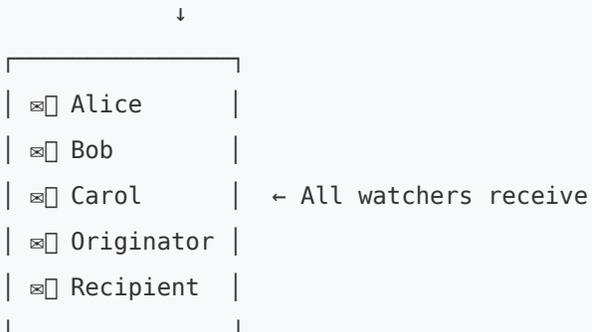
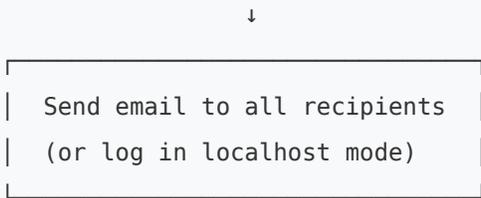
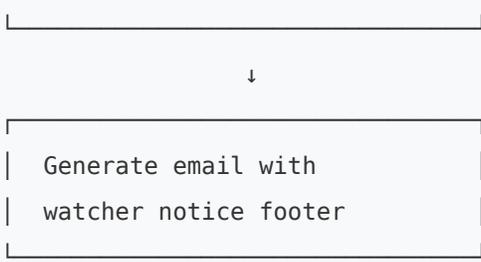
```
Get watchers from ticket
watchers = [Alice, Bob, Carol]
```

↓

```
Extract watcher emails:
[alice@, bob@, carol@]
```

↓

```
Merge with CC list:
CC = [originator, recipient,
      alice@, bob@, carol@]
```



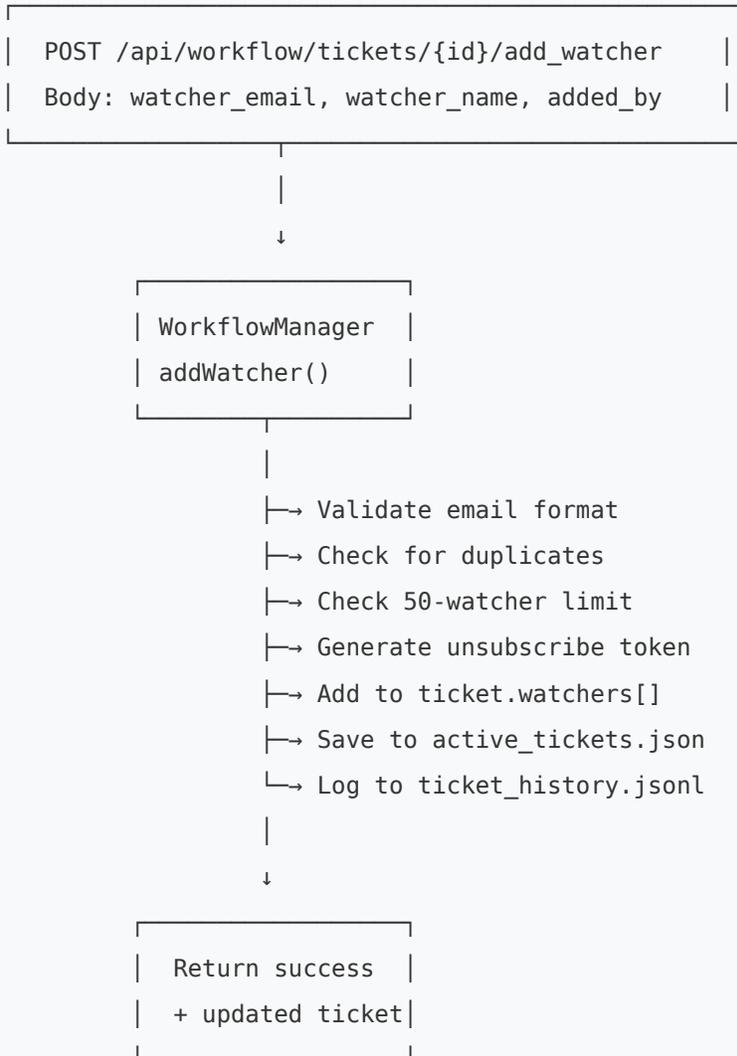
## Watcher Data Structure

```
ticket_abc123
├─ ticket_id: "ticket_abc123"
├─ workflow_type: "membership_request"
├─ status: "pending_response"
├─ originator: {...}
├─ recipient: {...}
├─ thread: [...]
├─ watchers: [
  {
    email: "alice@pmtnm.org",      ← Normalized (lowercase)
    name: "Alice Smith",         ← Display name
    added_at: "2025-01-09T09:00:00Z", ← When added
    added_by: "admin@pmtnm.org", ← Who added them
    unsubscribe_token: "abc123xyz..." ← For unsubscribing
  },
  {
    email: "bob@pmtnm.org",
    name: "Bob Jones",
    added_at: "2025-01-09T09:15:00Z",
```

```
added_by: "alice@pmtnm.org",
unsubscribe_token: "def456uvw..."
}
]
```

## API Interaction Flow

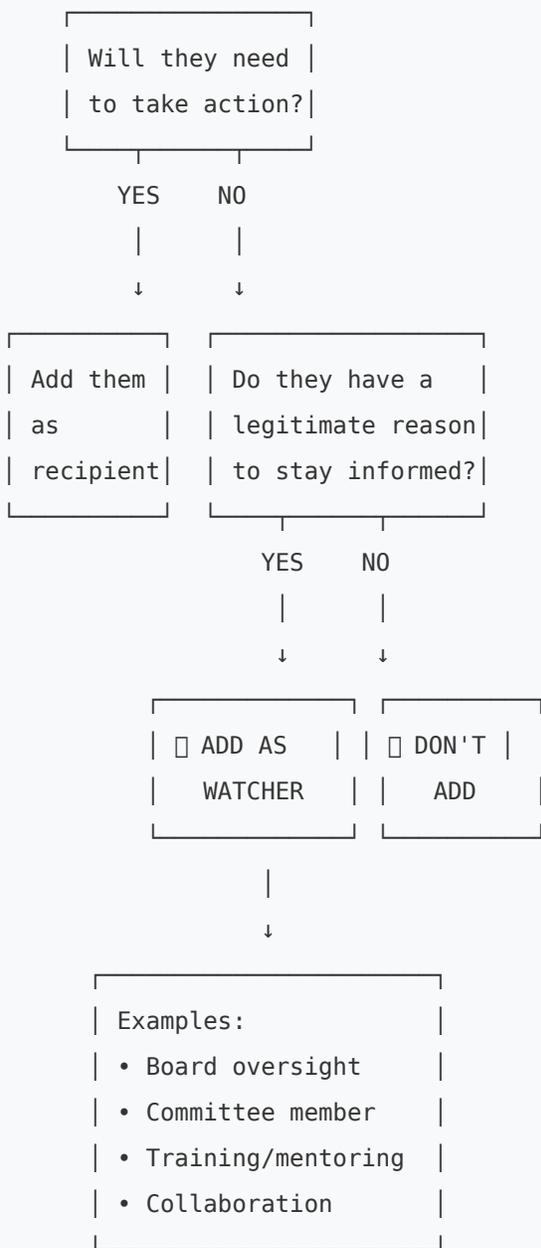
### API CALLS



## Decision Tree: Should I Add This Person as a Watcher?

Should I add them as a watcher?





## Watcher Lifecycle

### STAGE 1: ADDITION

Person added → Email validated → Unsubscribe token generated

↓

Added to watchers array

↓

Event logged to history

↓

Receives all future  
notifications

## STAGE 2: ACTIVE WATCHING

---

Ticket updated → Email notification → Watcher receives email

↓

Reads update, stays informed

## STAGE 3: REMOVAL

---

Self-removal OR someone removes them

↓

Removed from watchers array

↓

Event logged to history

↓

No more notifications received

## Comparison: Before and After Watchers

### BEFORE Watchers Feature

Member submits request

↓

Recipient gets email

↓

President wants to know status

↓

Asks recipient via separate email

↓

Recipient forwards

↓

President not in loop for future updates

↓

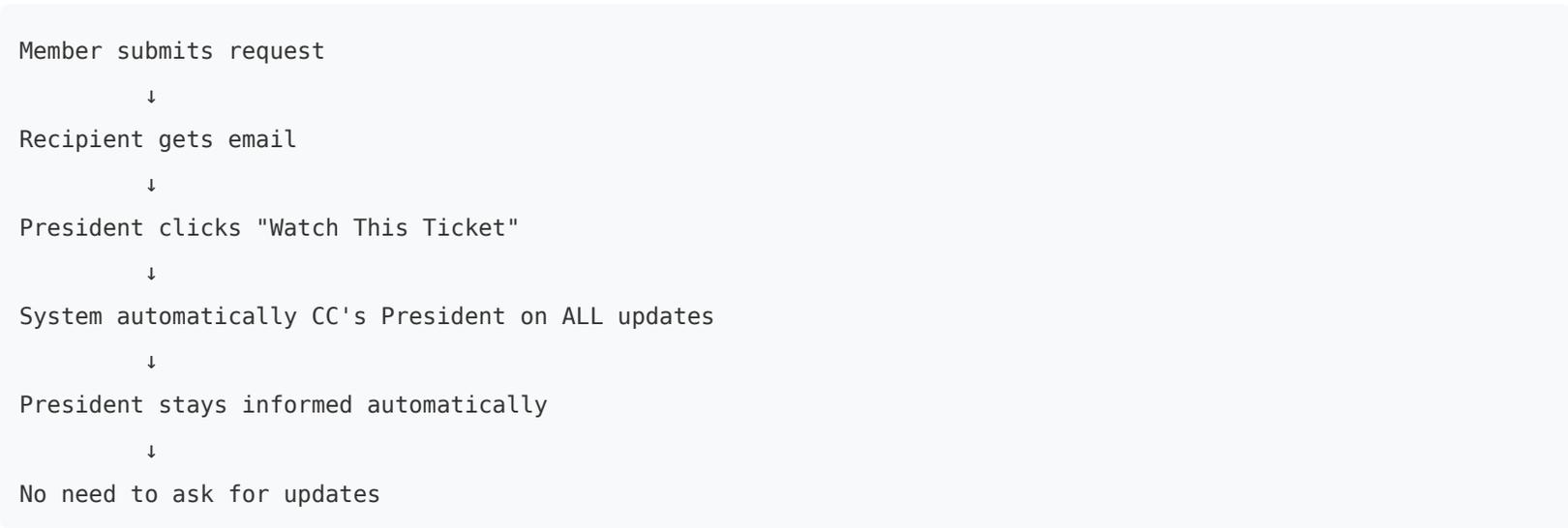
President must keep asking for updates

### Problems:

- Information silos
- Duplicate emails
- Manual forwarding

- People left out of loop

## AFTER Watchers Feature



### Benefits:

- Automatic updates
- One source of truth
- No forwarding needed
- Complete transparency

## Quick Scenarios

### Scenario Matrix

Who	Wants To	Solution
President	Monitor financial requests	Watch all financial access tickets
Committee Chair	Collaborate on response	Add committee members as watchers
Board Member	Oversight of volunteers	Watch volunteer interest tickets
Treasurer	Track follow-ups	Watch financial tickets (auto CC'd anyway)
New Board Member	Learn the ropes	Watch tickets in their area to observe
Coordinator	Manage onboarding	Watch new member tickets

# Testing Quick Reference

## Browser Test URLs

Main workflow page:

```
http://localhost:2025/workflow/my_requests.php
```

Test ticket (from automated test):

```
http://localhost:2025/workflow/my_requests.php
```

(Find: "Watcher Test - 06:58:29")

Admin dashboard:

```
http://localhost:2025/workflow/admin/workflow_admin.php
```

Contact form:

```
http://localhost:2025/contact.php
```

## API Test Commands

```
# Quick watcher test
```

```
./test_watchers.sh
```

```
# Add watcher
```

```
curl -X POST "http://localhost:2025/api/workflow/tickets/TICKET_ID/add_watcher" \  
-d "watcher_email=person@example.com" -d "watcher_name=Name"
```

```
# Remove watcher
```

```
curl -X POST "http://localhost:2025/api/workflow/tickets/TICKET_ID/remove_watcher" \  
-d "watcher_email=person@example.com"
```

```
# List watchers
```

```
curl "http://localhost:2025/api/workflow/tickets/TICKET_ID/get_watchers" | jq
```

## Check Email Logs

```
# View all emails today
```

```
cat logs/localhost_emails/$(date +%Y-%m-%d).jsonl | jq
```

```
# Count emails
```

```
wc -l logs/localhost_emails/$(date +%Y-%m-%d).jsonl
```

```
# Find emails with watchers
```

```
cat logs/localhost_emails/$(date +%Y-%m-%d).jsonl | jq 'select(.cc | length > 3)'
```

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**Ready to test?** Start here: [http://localhost:2025/workflow/my\\_requests.php](http://localhost:2025/workflow/my_requests.php) 