# CRITICAL BUG FIX: Task Completion Not Working

## Problem Identified

Your POST /tasks/{task_id}/complete endpoint exists, but **there's a mismatch in how the frontend is calling it**.

### What's Happening

1. **Frontend sends:** POST /tasks/dd64f755/complete with headers + body
2. **Backend expects:** Query parameter success=true (like: /tasks/dd64f755/complete?success=true)
3. **Result:** Request reaches endpoint but data doesn't parse correctly

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## Solution: Fix the Frontend Call

In your **App.jsx**, find this section:

```
const completeTask = async (taskId, success = true) => {
try {
const response = await axios.post(
${API_BASE}/tasks/${taskId}/complete?success=${success},
{} // Empty body
);
alert(Task ${taskId} marked as ${success ? 'completed' : 'failed'});
fetchTasks();
} catch (error) {
console.error('Error completing task:', error);
alert('Failed to complete task');
}
};
```

**This is correct!** You're already sending ?success=true as a query parameter.

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## The REAL Issue: Check Your Backend

Your coordinator needs to ensure the /tasks/{task_id}/complete endpoint is doing THREE things:

### 1. Find the Task

```
if task_id not in tasks_db:
raise HTTPException(status_code=404, detail="Task not found")
task = tasks_db[task_id]
```

### 2. Update Status & Release Payment

```
task["status"] = "completed"
```

# Find agent and add to their balance

```
agent_name = task["agent_name"]
for agent in agents_db:
if agent["name"] == agent_name:
agent["balance_satoshis"] += task["price_satoshis"]
break
```

### 3. Return Updated Task

```
return {"success": True, "task": task}
```

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## Quick Test Commands

**Test 1: Verify endpoint exists**
curl -X OPTIONS http://localhost:8000/tasks/test-id/complete -v

# Should see 200 or 405 (not 404)

**Test 2: Actually complete task**

# Get a task ID first:

curl http://localhost:8000/tasks | jq '.tasks[0].id'

# Then complete it:

```
curl -X POST "http://localhost:8000/tasks/dd64f755/complete?success=true"
-H "Content-Type: application/json"
-d '{}'
| jq
```

**Test 3: Verify status changed**
curl http://localhost:8000/tasks | jq '.tasks[] | select(.id=="dd64f755")'

# Should show: "status": "completed"

## Debug Checklist

- [ ] Task ID in dd64f755 format?
- [ ] Using ?success=true query parameter?
- [ ] Coordinator returns 200 (not error)?
- [ ] Task status changes to "completed"?
- [ ] Agent balance increases by price_satoshis?

## If Still Broken

**1. Check coordinator logs:**
kubectl logs deployment/coordinator -f

# Or if running locally:

# Just watch the terminal where you ran uvicorn

**2. Verify FastAPI is responding:**
curl http://localhost:8000/

# Should return: {"service": "AICP Coordinator", "status": "running"}

**3. Check CORS headers:**
curl -I http://localhost:8000/tasks

# Should show: Access-Control-Allow-Origin: *

## Complete Endpoint Code (Reference)

@app.post("/tasks/{task_id}/complete")
def complete_task(task_id: str, success: bool = True):
"""Mark a task as completed and release payment to agent"""

```
  if task_id not in tasks_db:
     raise HTTPException(status_code=404, detail="Task not found")
```

```
task = tasks_db[task_id]

if success:
    task["status"] = "completed"
    # Release payment to agent
    for agent in agents_db:
        if agent["name"] == task["agent_name"]:
            agent["balance_satoshis"] += task["price_satoshis"]
            break
else:
    task["status"] = "failed"

return {
    "id": task["id"],
    "description": task["description"],
    "agent_name": task["agent_name"],
    "price_satoshis": task["price_satoshis"],
    "status": task["status"],
    "buyer_id": task["buyer_id"],
    "created_at": task["created_at"],
    "result": "Success" if success else "Failed"
}
```

## Next Steps

1. **Confirm endpoint exists** in your coordinator_service.py
2. **Run test commands above** to see exact error
3. **Check coordinator output** for error messages
4. **Report the error** from the response body

**Tell me:**

- What error do you get when you run the curl complete command?
- What do coordinator logs show?
- Does /tasks show task with status: "assigned" before completion?