

Cursor Session Checklist - Interactive Paper Processor

Date: October 12, 2025

Goal: Implement interactive menu system (8 tasks, ~2 hours)

Reference: `CURSОР_TASKS.md` (detailed implementation guide)

Before You Start (5 minutes)

☒ Pre-Session Setup

☐ **Stop the daemon** if running

```
bash

python scripts/stop_paper_processor.py
```

☐ **Check git status** - commit or stash current changes

```
bash

git status
git add -A
git commit -m "checkpoint: before interactive menu implementation"
```

☐ **Open required files** in Cursor

☐ `scripts/paper_processor_daemon.py` (main work)

☐ `shared_tools/zotero/paper_processor.py` (Task 8)

☐ `shared_tools/zotero/local_search.py` (Task 8)

☐ `CURSОР_TASKS.md` (reference)

☐ **Terminal ready**

```
bash

cd /mnt/f/prog/research-tools
conda activate research-tools
```

☐ **Test files ready** (for testing each task)

☐ At least 2-3 sample PDFs in a test directory

☐ Know which papers exist in your Zotero (for Task 7)

Task 1: Menu Display Functions (15 min)

Status:  Not Started |  In Progress |  Done

Implementation

- ☐ Open `scripts/paper_processor_daemon.py`
- ☐ Find line 79 (after `setup_logging` method)
- ☐ Copy-paste `display_metadata` method from `CURSOR_TASKS.md`
- ☐ Copy-paste `display_interactive_menu` method
- ☐ Save file

Testing

- ☐ Add test code at end of file (from Task 1 in `CURSOR_TASKS.md`)
- ☐ Run test:

```
bash

python scripts/paper_processor_daemon.py
```

- ☐ Verify menu displays correctly
- ☐ Verify input validation works
- ☐ Remove test code

Commit

```
bash

git add scripts/paper_processor_daemon.py
git commit -m "feature: add interactive menu display functions"
```

Time: _____ minutes | Issues: _____

Task 2: Menu Integration (15 min)

Status:  Not Started |  In Progress |  Done

Implementation

- ☐ Replace `process_paper` method (lines ~140-180)
- ☐ Add `move_to_skipped` method
- ☐ Save file

Testing

☐ Start daemon:

```
bash

python scripts/paper_processor_daemon.py
```

☐ Copy test PDF to scanner directory:

```
bash

cp /path/to/test.pdf /mnt/i/FraScanner/papers/EN_test.pdf
```

☐ Verify:

☐ Metadata displays

☐ Menu appears

☐ Option '4' (skip) works → moves to skipped/

☐ Option '5' (manual) works → stays in place

☐ Option 'q' (quit) stops daemon

☐ Stop daemon: Ctrl+C

Commit

```
bash

git add scripts/paper_processor_daemon.py
git commit -m "feature: integrate interactive menu into processing loop"
```

Time: _____ minutes | **Issues:** _____

Task 3: Local Zotero Search (20 min)

Status: ☐ Not Started | ☐ In Progress | ☒ Done

Implementation

- ☐ Add `search_and_display_local_zotero` method
- ☐ Update `process_paper` - replace else block for choice '3'
- ☐ Save file

Testing

☐ Start daemon

☐ Copy test PDF (preferably one that exists in Zotero)

- ☐ Choose option '3'
- ☐ Verify:
- ☐ Searches local Zotero DB
- ☐ Displays matches with all fields
- ☐ Shows sub-menu
- ☐ 'b' (back) works
- ☐ Stop daemon

Commit

```
bash

git add scripts/paper_processor_daemon.py
git commit -m "feature: add local Zotero search to interactive menu"
```

Time: _____ minutes | **Issues:** _____

Task 4: Failed Extraction Workflow (20 min)

Status: ☐ Not Started | ☐ In Progress | ☒ Done

Implementation

- ☐ Add `handle_failed_extraction` method
- ☐ Add `manual_metadata_entry` method
- ☐ Add `convert_zotero_item_to_metadata` method
- ☐ Update `process_paper` - fix metadata handling (around line 155)
- ☐ Save file

Testing

- ☐ Start daemon
- ☐ Use poor quality scan OR image file (to trigger failure)
- ☐ Verify guided workflow:
- ☐ Document type selection
- ☐ DOI/ISBN prompt
- ☐ Author search in Zotero
- ☐ Match selection (1-10 or 0 for none)
- ☐ Manual entry if no match
- ☐ Stop daemon

Commit

```
bash
```

```
git add scripts/paper_processor_daemon.py
git commit -m "feature: add failed extraction guided workflow"
```

Time: _____ minutes | **Issues:** _____

Task 5: Use Metadata As-Is (20 min)

Status: ☐ Not Started | ☐ In Progress | ☒ Done

Implementation

- ☐ Add `use_metadata_as_is` method
- ☐ Add `get_file_info` method
- ☐ Update `process_paper` - replace placeholder for choice '1'
- ☐ Save file

Testing

- ☐ Start daemon
- ☐ Copy test PDF with good metadata
- ☐ Choose option '1'
- ☐ Verify:
- ☐ Filename proposed correctly
- ☐ Can confirm or customize filename
- ☐ Duplicate check works (if file exists)
- ☐ Copies to G:/publications/
- ☐ Prompts for Zotero
- ☐ Moves original to done/
- ☐ Check: File in publications/, original in done/
- ☐ Stop daemon

Commit

```
bash

git add scripts/paper_processor_daemon.py
git commit -m "feature: implement use metadata as-is workflow"
```

Time: _____ minutes | **Issues:** _____

Task 6: Metadata Editing (15 min)

Status: ☐ Not Started | ☐ In Progress | ☒ Done

Implementation

- ☐ Add `edit_metadata_interactively` method
- ☐ Update `process_paper` - replace placeholder for choice '2'
- ☐ Save file

Testing

- ☐ Start daemon
- ☐ Copy test PDF
- ☐ Choose option '2'
- ☐ Edit various fields (title, authors, year, etc.)
- ☐ Verify:
- ☐ All fields editable
- ☐ Enter keeps current value
- ☐ Changes show in summary
- ☐ Can proceed or cancel
- ☐ Proceeds to standard workflow
- ☐ Stop daemon

Commit

```
bash
git add scripts/paper_processor_daemon.py
git commit -m "feature: implement metadata editing workflow"
```

Time: _____ minutes | Issues: _____

Task 7: Zotero Match Selection (20 min)

Status: ☐ Not Started | ☐ In Progress | ☒ Done

Implementation

- ☐ Add `attach_to_existing_zotero_item` method
- ☐ Update `process_paper` - complete Zotero search handling (choice '3')
- ☐ Save file

Testing

- ☐ Start daemon
- ☐ Copy PDF that exists in Zotero
- ☐ Choose option '3'
- ☐ Select a match (1-5)
- ☐ Verify:
- ☐ Detects if item has PDF
- ☐ Offers keep/replace/cancel options
- ☐ Generates filename correctly
- ☐ Copies to publications/
- ☐ Attaches to Zotero item
- ☐ Moves original to done/
- ☐ Check Zotero: PDF attached correctly
- ☐ Stop daemon

Commit

```
bash
```

```
git add scripts/paper_processor_daemon.py
```

```
git commit -m "feature: implement Zotero match selection and PDF attachment"
```

Time: _____ minutes | **Issues:** _____

Task 8: Missing API Methods (10 min)

Status:  Not Started |  In Progress |  Done

Implementation

- ☐ Open `shared_tools/zotero/paper_processor.py`
- ☐ Add `attach_pdf_to_existing` method (after line 230)
- ☐ Save file
- ☐ Open `shared_tools/zotero/local_search.py`
- ☐ Add `search_by_author` method
- ☐ Save file

Testing

- ☐ Test attachment method:

```
python
```

```
from shared_tools.zotero.paper_processor import ZoteroPaperProcessor
from pathlib import Path

processor = ZoteroPaperProcessor()
# Use a real item key from your Zotero
test_key = "ABCD1234"
test_pdf = Path("/mnt/g/My Drive/publications/test.pdf")
result = processor.attach_pdf_to_existing(test_key, test_pdf)
print(f"Result: {result}")
```

☐ Test author search:

```
python

from shared_tools.zotero.local_search import ZoteroLocalSearch

searcher = ZoteroLocalSearch()
results = searcher.search_by_author("Smith")
print(f"Found {len(results)} papers")
```

Commit

```
bash

git add shared_tools/zotero/paper_processor.py
git add shared_tools/zotero/local_search.py
git commit -m "feature: add attach_pdf_to_existing and search_by_author methods"
```

Time: _____ minutes | **Issues:** _____

Final Integration Testing (20 min)

Status:  Not Started |  In Progress |  Done

Test Scenarios

Test 1: Successful Extraction

- ☐ Scan paper with DOI
- ☐ Metadata extracts correctly
- ☐ Choose "use as-is"
- ☐ File copied to publications/
- ☐ Added to Zotero successfully
- ☐ Original in done/

Test 2: Failed Extraction

- ☐ Use poor quality scan
- ☐ Guided workflow starts
- ☐ Document type selection works
- ☐ Can complete manual entry
- ☐ File processed correctly

Test 3: Existing Zotero Item

- ☐ Scan paper already in Zotero
- ☐ Option 3 finds match
- ☐ Can attach PDF
- ☐ Handles existing PDF correctly

Test 4: Edit Metadata

- ☐ Choose option 2
- ☐ Edit fields successfully
- ☐ Processing completes

Test 5: Skip/Cancel

- ☐ Skip document (option 4) → moves to skipped/
- ☐ Manual processing (option 5) → stays in place
- ☐ Quit (q) → daemon stops cleanly

Issues Found

Final Commits

bash

Update implementation plan

`git add implementation-plan.md`

`git commit -m "docs: mark Phase 4.5 interactive menu as complete"`

Create session summary

`git add SESSION_SUMMARY_$(date +%Y-%m-%d).md`

`git commit -m "docs: add session summary for interactive menu implementation"`

Tag this milestone

`git tag -a v0.2.0-interactive-menu -m "Interactive menu system complete"`

Post-Implementation

Update Documentation

- ☐ Update `implementation-plan.md` - mark Phase 4.5 complete
- ☐ Update `SCANNER_SETUP.md` - add interactive workflow description
- ☐ Create session summary (date, time spent, issues, solutions)

Cleanup

- ☐ Delete `paper-processor-spec.md` (redundant)
- ☐ Archive old planning documents if needed

Next Steps

- ☐ Configure Epson scanner buttons
- ☐ Process backlog of scanned papers
- ☐ Refine prompts based on usage
- ☐ Consider adding batch mode for backlog

Emergency Stop Procedure

If you need to stop mid-task:

1. **Commit current work** (even if incomplete):

bash

`git add -A`

`git commit -m "wip: task X in progress - stopping point"`

2. **Note where you stopped:**

- Task number: _____
- What's working: _____
- What's not working: _____
- Next step: _____

3. Safe resume:

- Review this checklist
- Continue from noted task
- Re-test previous completed tasks if needed

Time Tracking

Task	Estimated	Actual	Notes
Task 1	15 min	_____	_____
Task 2	15 min	_____	_____
Task 3	20 min	_____	_____
Task 4	20 min	_____	_____
Task 5	20 min	_____	_____
Task 6	15 min	_____	_____
Task 7	20 min	_____	_____
Task 8	10 min	_____	_____
Testing	20 min	_____	_____
Total	~2.5 hrs	_____	

Common Issues & Solutions

Issue: Import errors

Solution: Make sure conda environment activated:

```
bash
conda activate research-tools
```

Issue: Daemon won't start

Solution: Check PID file and kill stale process:

```
bash
```

```
cat /mnt/i/FraScanner/papers/.daemon.pid
```

```
ps aux | grep paper_processor
```

```
kill <PID>
```

```
rm /mnt/i/FraScanner/papers/.daemon.pid
```

Issue: Local Zotero search fails

Solution: Check database path in config:

```
bash
```

```
cat config.personal.conf | grep zotero_db_path
```

```
ls -la <path_from_config>
```

Issue: File operations fail

Solution: Check permissions and paths:

```
bash
```

```
ls -la /mnt/i/FraScanner/papers/
```

```
ls -la /mnt/g/My\ Drive/publications/
```

Ready to implement! 🚀

Pro Tips:

- ☒ Test after EVERY task
- ☒ Commit after EVERY task
- ☒ Don't rush - quality over speed
- ☒ Take breaks between tasks
- ☒ Stop if stuck - ask for help

Good luck! You've got detailed instructions for everything.