

# 2024 CSC493 – Capstone Weekly Reports<sup>1</sup>

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Select Report Date: Oct 6, 2025

## Part 1: Weekly Progress Report

- **Accomplishments:** What did you accomplish since the last class meeting? (*up to 3 points*)

I tightened the live status and manager workflow so it's easier to trust and use day to day. I added simple request throttling and short cool-downs to stop spam while still acknowledging legit reports, cleaned up manager scoping so people only see their own printers, and made it faster to drop new staff into the right groups. I filled in missing inventory records so the manager views actually show real data, improved refresh behavior and cache busting so status isn't stale, and hardened email paths for resets and notifications with better retries and logging.

- **Challenges:** What are your current roadblocks? (*up to 3 points*)

Email delivery is still touchy without real SMTP credentials, so I can only prove the flow end to end once I have those. Device models expose SNMP fields inconsistently, which means more fallbacks and clearer "data unavailable" states. Permission testing is slow since I need dummy users in different groups to catch edge cases, and data backfill takes time before every page has something meaningful to show.

- **Desired Discussion Points:** Do you have any desired discussion points that are not related to roadblocks? (*up to 2 points*)

If anyone has hands-on SNMP experience, I would like practical tips: which OIDs you rely on for status and supply levels, how you handle models that only implement parts of the MIB, whether traps are worth using or if polling is more reliable, safe polling intervals you have used without upsetting network policies.

- **Future Goal(s):** What do you plan to accomplish before our next class meeting? These plans should be related to roadblocks or discussion points. If you plan to change direction, explain why. (*up to 2 points*)

Add the physical layout so every item and printer has a clear location, tie those locations to the QR labels, fix all bad device data for model, serial, IP, and room, backfill any missing records, and finish populating groups so manager views are properly scoped. After that, run a quick end to end check to confirm the layout shows up in the portal, edits stick, and group based access looks right.

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<sup>1</sup> Detailed Weekly Report requirements can be found here: [2024 URCPP Capstone - Using Agile and Reporting Out](#)

## Part 2: Time Reporting

Make sure that as you fill out the first prompt, you include in enough detail in the summary. For example, "debugging" is vague, but "debugged function X to make sure that when user does action Y, it is called and returns the value Z" is better.

- **Time Spent:** Briefly explain how much time, *outside of class*, spent on your project. If you worked on multiple components, each should get a detailed summary. Make sure to add up all the hours and minutes correctly. *Add as many rows as you need to the table below. Please do not include hours in class as part of this section. (up to 4 points)*

START	FINISH	HOURS	DETAILED SUMMARY
09/30 11:00am	09/30 11:50am	1	Spent this time creating groups and populating them with the correct information.
10/03 1:00pm	10/03 5:00pm	4	0:00–0:30 Configure .env for SNMP (community, timeouts, retries, poll interval); verify pysnmp optional path and guardrails. 0:30–1:15 Implement/verify ensure_latest_status caching policy and build_status_payload; respect POLL_INTERVAL_SECONDS. 1:15–2:00 Admin “Live Device Status” panel: change form template, JSON endpoint, Refresh button, first-load auto refresh, Cache-Control: no-store. 2:00–2:40 SNMP client enhancements: status/device status OIDs, alert and supplies walkers, error flag bitfield decoding, console lines folded into alerts. 2:40–3:20 Fallback logic: prefer SNMP v2c, auto fallback to v1; clearer error messages for SnmpNotConfigured and query failures. 3:20–4:00 Manual QA: timestamp formatting, pill styling, message states; update README/env notes; sanity test with mock/printer entries.
10/05 9:00am	10/05 1:00pm	4	0:00–0:50 Manager status feeds: endpoints for all printers and per-printer; ?force/?refresh flags; consistent payload shape with poll_interval_seconds. 0:50–1:40 Manager dashboard UI: attention/SNMP-error row states, status/device pills, alerts/error flags/supplies lists, Refresh All/One, periodic auto-refresh, cache-busting query param. 1:40–2:20 Ticket flows: issue report with per-printer rate limit (3/hour), supply/paper order (group apply option), email notifications, thank-you/flash messaging. 2:20–2:50 Daily issue summary: recipient resolution (superuser opt-in → fallback), once-per-interval send via middleware/state, clear subject/body with timesince. 2:50–3:20 Admin index: low inventory panel, missing printer data summary, printer status alerts (counts + top list).

			3:20–4:00 CSV exports and quick actions: printers/tickets exports, admin actions (mark in progress/fulfilled/closed), permission checks, final UX polish and QA pass.
	<b>WEEKLY TOTAL</b>	9	

- **Total (Cumulative) Project Time Spent:** After the number of hours and minutes, make sure to briefly explain whether you are on track and if not, what you may need to do in order to achieve what you set out to accomplish. *(up to 2 points)*

78 hours to date. I feel on track overall. My only concern is how long the data cleanup will take since fixing bad device info and filling gaps can be slow while I add locations and finish populating groups.

## Rubric:

The following rubric will be used, but they might change as needed.

### Accomplishments (3 points)

1 point for a general description of progress, 2 points for specifics on progress, 3 points for specifics AND referring to previous targets and explaining how current accomplishments build on previous ones.

### Challenges (3 points)

1 point for mentioning there are roadblocks, 2 points for specifics, 3 points for specifics AND what was done already to try to overcome them.

### Desired discussion points (2 points)

1 point for at least one relevant discussion point as a general question, 2 points for relevant discussion points with specifics

### Future Goals (2 points)

1 point for concrete future targets (i.e. "working more on the project" is a zero, but "working on getting component X to interface with component Y" suffices), 2 points for tying in the targets with what was hopefully discussed in the meeting.

### Time Spent (4 points)

1 point for including general statements of how much time was spent ("4 hours on coding"), 2 points for splitting time into specific parts ("1.5 hours on research on component X, 1 hour coding, 2.5 hours debugging"), 3 points for specific parts and details on the pieces ("1.5 hours researching Turtle interface for drawing concentric circles given inputs from the user, 1 hour coding function X that used that interface, 2.5 hours testing function X by giving it multiple values and fixing errors for values A, B, C, and D"). 1 Point for totalling the hours correctly.

What happens if your time on a task is interrupted and you don't have a concrete (or discrete) end time? In this case put the start time in, and the word "interrupted" for the end time and include the task total time. Rounding to the nearest 15 minutes is acceptable. (*This makes adding up times easier, especially when you use decimal hours, i.e. 3.75 rather than 3 hours 45 minutes.*)

### Total (Cumulative) Project Time (2 points)

1 point for summing the values correctly, 2 points for the total time AND reflection on progress (you are confident to fit the target and if not, what course corrections you anticipate needing to make)

## Resources

Here's a link to this Weekly Report Template – Make a copy and use it:

[2024 CSC493 Weekly Report v2 TEMPLATE](#)