

**sddec22-04: Exam Collector**

Week 4 Report

February 13 - February 20

**Team Members**Camdyn Zook — *Software Architect and Group secretary*Dylan Kohlbeck — *Client interaction and Hardware design*Nicholas Fahey — *Software Team Lead*Connor Kazin — *Hardware Testing, Hardware Components design*Max Hjelmstad — *Software Testing*Brandon Degeneffe — *Hardware Team Lead*

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**Summary of Progress this Report**

Very busy week for almost all members of this group including our advisor. We decided instead of any big decisions this week do even more research on variety of topics and have one bigger meeting the next week.

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**Pending Issues**

Midterm Exam Week / Limited availability

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**Plans for Upcoming Reporting Period**

A repeat of last week's plans since our team had a meeting last monday deciding to take it easier and just research. Final Design meeting where we hash out almost everything about the design until a later date. Experiments using computer vision will be conducted to see if we can read all forms of handwriting. Coding towards the software architecture will also start. Finally we are going to have a very basic CAD model to run simulations on.

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Sketchnoting:

# PERSONA PROFILE

## CHALLENGES

- AVOID GETTING SICK WHILE COLLECTING EXAMS
- VERIFY WHICH STUDENTS HAVE TAKEN THE EXAM

## GRADER

- PROFESSION:
- INSTRUCTOR
  - TA

AGE: WIDE RANGE

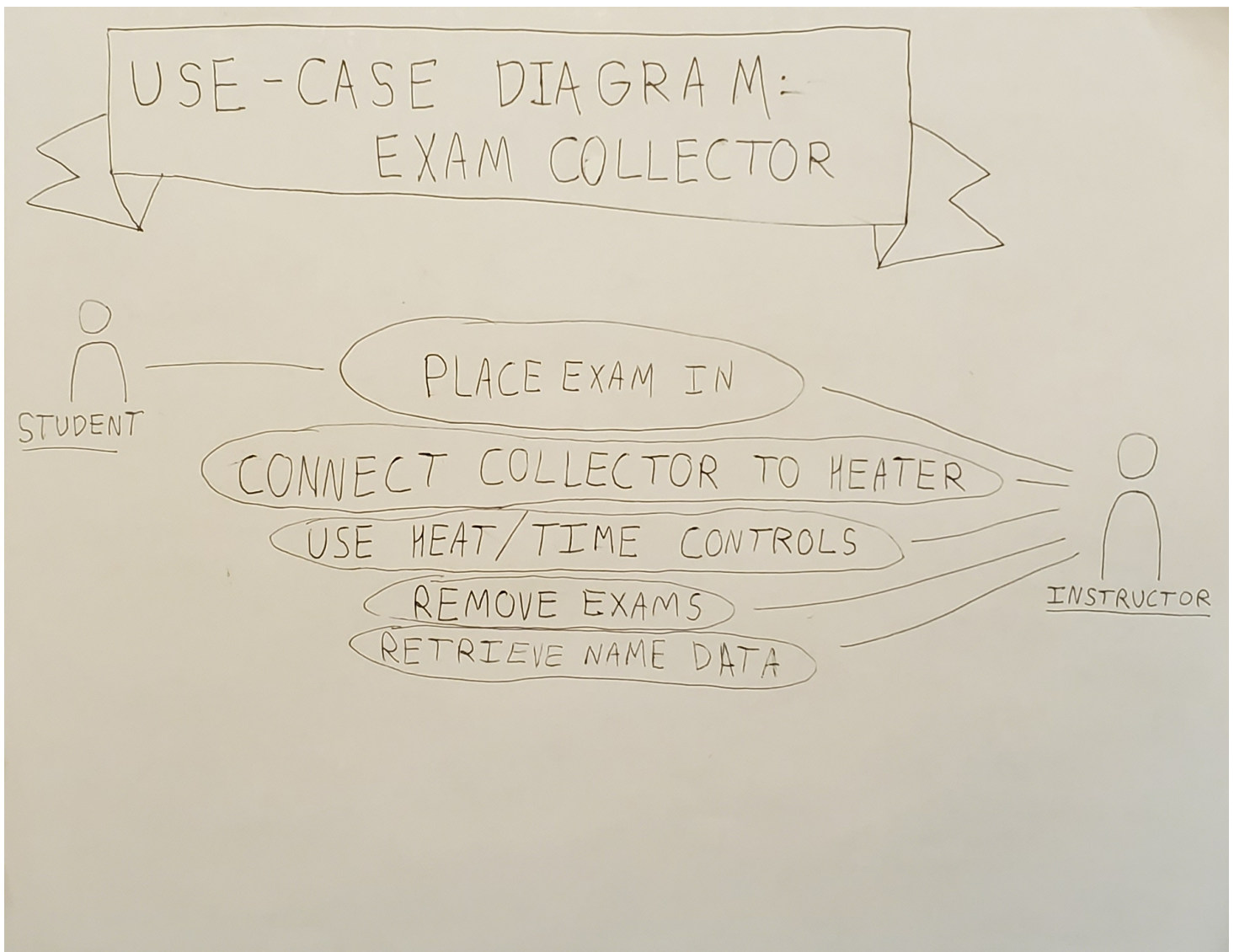
FROM: ALL OVER

## GOALS

- RESEARCH
- INSTRUCTION

## INFLUENCES

- FAMILY
- COLLEAGUES



### Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Camdyn Zook	Worked on the development of the image processor with a computer vision api that detects handwriting but didn't give anything of value so far	2	8.5
Dylan Kohlbeck	looked briefly into the equations of how much current and voltage is needed to heat the nichrome wire into our desired temperature. With this information we will be able to design a step down circuit to manipulate our power flow through the wire. Another thing I looked at was the pattern of the wire to produce a more uniformed heating system. This is done by setting the wires equidistant from one another and supplying the same	2	9.5

	amount of watts through them.		
Nicholas Fahey	Researched parsing information from an image through a camera.	1	8.5
Connor Kazin	Researched on pcb relating to heating systems and made progress on a simulated model	1	6.5
Max Hjelmstad	I did research on camera-based text scanning and possible alternatives to this method of name input	1	7.5
Brandon Degeneffe	Projected weight ranges of furnace/oven and carrying box. Materials ideas. Brainstorming.	1	5.5

### Gitlab Activity Summary

Camdyn Zook made 1 commits but the auto-generated form didn't show it

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