Microscope Slide Scanner

Date: 9/19/24

Client: Teri Stewart
Advisor: Dr. James Trevathan
Team: Lia Lejonvarn (Team Leader)
         Amanda Kothe (Communicator and BSAC)
         Hamad AlDhaheri (BPAG)
         Xavier Snider (BWIG)

Problem statement

The team has been tasked with finding a more efficient way to scan microscope slides using digital scanning. The client's department already has a scanner but it takes a while to scan one slide and the images are not of the best quality. Therefore, we must find a way to enhance the user quality of their digital scanner as well as the images themselves. The department has also asked our team to create software capable of housing the images. This project will benefit multiple labs who send in slides for processing including the primate lab and SMPH.

Brief status update

The team met with our client twice and got a tour of the lab. The team also completed a PDS for the project and completed some initial research.

Difficulties / advice requests

The team is still having difficulty understanding the actual scope of the project and what is expected of them. The team's advisor will meet with the client to help solve this.

Current design

Materials and expenses

Item	Description	Manufac-turer	Mft Pt#	Vendor	Vendor Cat#	Date	#	Cost Each	Total	Link
Category 1										
									$0.00	

									$0.00	
Category 2										
									$0.00	
									$0.00	
								TOTAL:	**$0.00**	

Major team goals for the next week

1. Do preliminary research on microscope scanners and sorting software
2. Start thinking about preliminary designs for the project
3. Create and fill out a design matrix for the preliminary designs

Next week's individual goals

- Amanda:
    - Start on preliminary designs
    - Continue researching
    - Continue communicating with client to better understand her needs
- Lia:
    - Finish PDS
    - Start working on preliminary designs
    - Continue researching
- Xavier:
    - Work on pds
    - Add to the website
    - Continue researching
- Hamad:
    - Develop a preliminary design
    - Continue researching

Timeline

Task	Sep			Oct				Nov				Dec		
	13	20	27	4	11	18	25	1	8	15	22	29	6	11
Project R&D														
Empathize														
Background…														
Prototyping														
Testings														
Deliverables														

Progress Reports	X												
Prelim presentation													
Final Poster													
Meetings													
Client	X												
Advisor	X												
Website													
Update													

Filled boxes = projected timeline
X = task was worked on or completed

Previous week's goals and accomplishments

- Amanda
  - Communicated with client and advisor about project
  - Helped complete first progress report
- Lia:
  - Set up our team notebook
  - Established a team google drive
  - Helped make the first progress report
- Xavier
  - I set up the team website
  - Labeled each members role
  - Lowered the resolution of team photo
- Hamad
  - Started research about microscopic scanners

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Amanda	9/16	Got a tour of client's lab	1	1	2
Lia	9/16	Got a tour of client's lab	1	1	2
Xavier	9/16	Got a tour of client's lab	1	1	2
Hamad					1