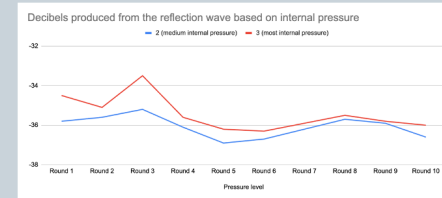
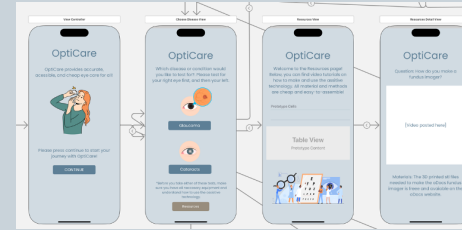


16/16 [=====] - 0s 5ms/step				
	precision	recall	f1-score	support
0	0.97	0.93	0.95	243
1	0.93	0.97	0.95	246
accuracy			0.95	489
macro avg	0.95	0.95	0.95	489
weighted avg	0.95	0.95	0.95	489

4/4 [=====] - 0s 5ms/step				
	precision	recall	f1-score	support
0	0.88	0.84	0.86	61
1	0.84	0.88	0.86	60
accuracy			0.86	121
macro avg	0.86	0.86	0.86	121
weighted avg	0.86	0.86	0.86	121



Background Research

Conduct background research on cataracts, glaucoma, diagnosis, etc

Creating Novel Instruments

Instruments were created and modified to measure IOP and take fundus images.

Developing Models

Three machine-learning models for diagnosing cataracts and glaucoma in both eyes were developed.

Coding the Application

A preliminary design was created, updated, and implemented in Swift.

Data Analysis

Data was gathered regarding the models and novel technology created.

2020

2021

2022

2023

2024