DataVisual Innovators

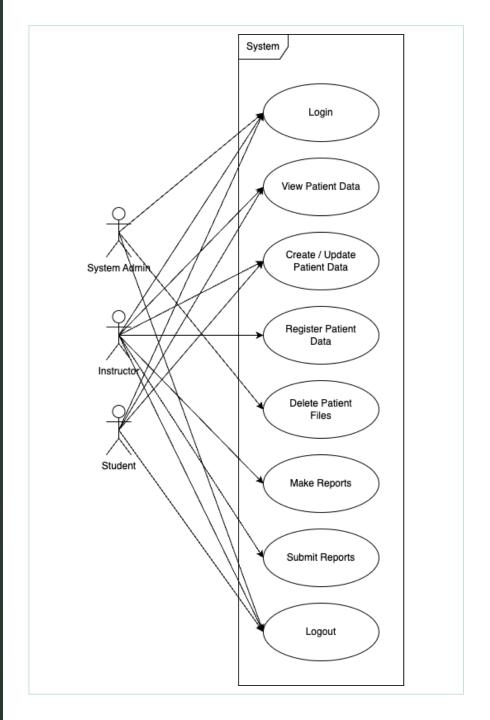
CRSC Simulation Hospital

Brief Description of the Project

- UND's School of Nursing & Professional Disciplines requested the aid in designing an EPIC chart simulator.
- Upgrade user experience and address key issues and flaws with current google docs solution
- Plan out a course of action with use case diagram and class diagram
- Implement demo application with 5 interfaces for user to test

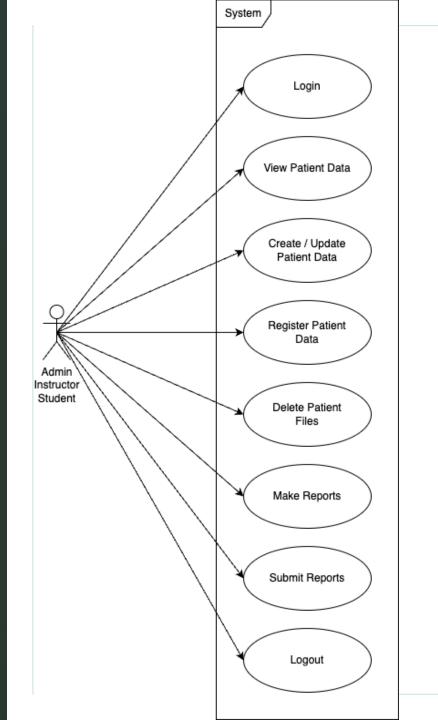
Use Case Diagram

 Contains three users system admin, the instructor and the student



Realistic Use Case Diagram

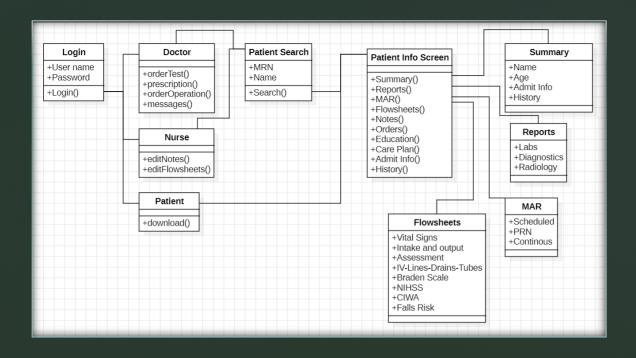
 Application does not yet support the functionality of hiding and managing users properly



Class Diagram

Class diagram contains

 a real-world
 perspective on the use
 of this application



Guidelines and Deliverables

- Looking to keep things simple and not over encumber the user with too much data or graphics
- Design was to have simple color schemes
- Ensure the user felt like the application was responsive
- Try to provide a better solution to the old system
 - AKA (DataVisual Pro; An ETUECCAMS)
 - EasyToUseEpicChartCreatorAndManipuatorSystem

Problems

- Design and Development
 - There have been 5 iterations of the program each version with its own flaws, too ambitious, too many bugs, a complete redesign etc.
 - Solutions included sticking to one plan and just keep improving where possible
- Learning a new system
 - C# seems intuitive and easy but different enough to cause challenges
 - Development of a windows application on a Mac is not an easy task
- Group Communication
 - A lack of communication made issues with delegating tasks or managing project goals and overall project orientation which resulted in an unfair task load.

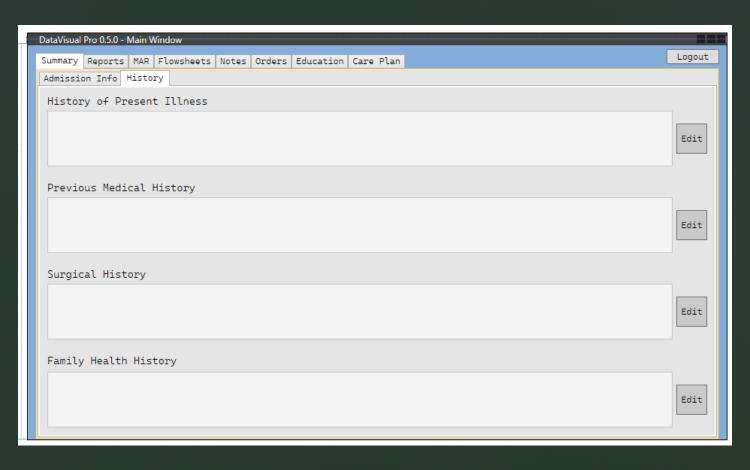
Interface Design: Login Window

DataVisual Pro 0.5.0 - Login Window	
COLLEGE OF NURSING & PROFESSIONAL DISCIPLINES	
CRSC Simulation Hospital	
Username	
Password	
Login	

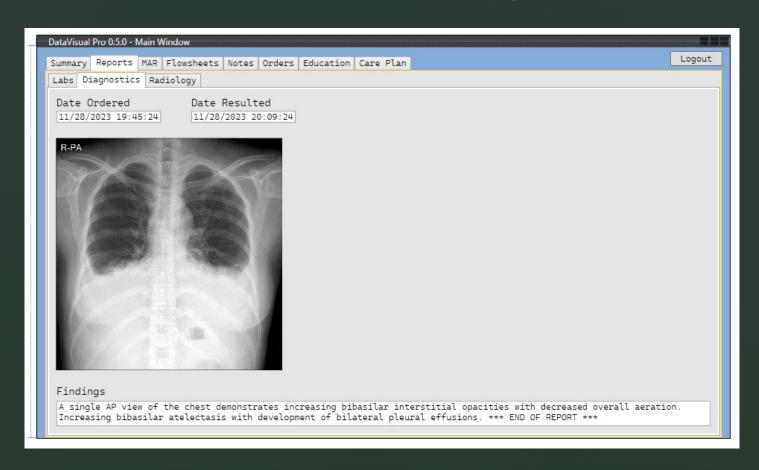
Interface Design: Admit Info Window

Summary	Reports	MAR	Flowsh	eets	Notes	Orders	Education	Care Plan	Logout
Admissi	on Info	Histo	ry						
MRN			Load		Save				
First		M.	.I La	ast			DOB Select a	Age	
Sex	e () Female	e	ot Spe	cified	Hei	ght	in	Weight lb v	
Provid	der		Diagno	osis					
Aller	gies								
Code S	Status L DNR	DN	NI						
Isolat	ion dard Pred	autio	ons						
Cont	act Preca	utior	ns						
	olet Preca								

Interface Design: History Window



Interface Design: Diagnostics Window



Interface Design: Vital Signs Window

DataVisual Pro 0.5.0 - Main Window	Logout								
Summary Reports MAR Flowsheets Notes Orders Education Care Plan Vital Signs Intake and Output Assessment IV's/Lines/Drains/Tubes Braden Scale NIHSS CIWA Falls Risk									
Date Time RN Initials 11/29/2023 11:43:23 RN									
Temperature Route									
Heart Rate Method Location									
Respirations Quality Oxygen Device O2 (L/min) SPO2 O Yes No									
Blood Pressure									
Systolic Diastolic Location									
Comments									

Interface Design: Notes Window

