Input and Output

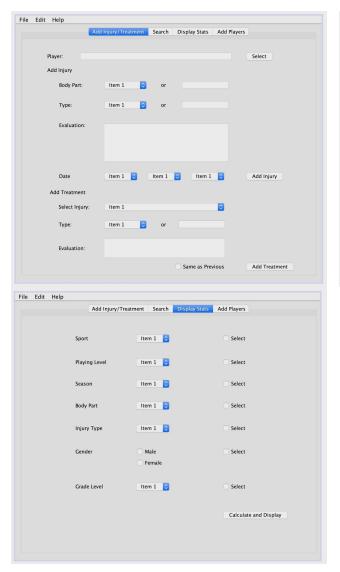
Input

Input	Data Type	Normal Range	Example
Player Name	String	N/A	John Doe
Player Gender	String	N/A	Male
Player Student ID #	Integer	0-99999	17763
Body Part	String	N/A	Ankle
Injury Type	String	N/A	Sprain
Injury Evaluation	String	N/A	Mild swelling
Date	String	N/A	12 Jan, 2019
Treatment Type	String	N/A	Taping
Treatment Evaluation	String	N/A	Limited range of motion
Treatment Date	String	N/A	13 Jan, 2019

Output

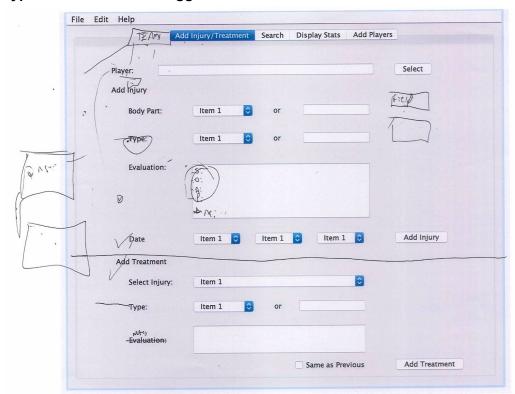
Output	Data Type	Normal Range	Example
Alphabetical list of players	Student array	Information for all players displayed	John Doe Male 17763 Ankle Sprain Mild Swelling 12 Jan, 2019 Taping Limited range of motion 13 Jan, 2019
Injuries Per Sport	Integer	0-99	20
Injuries By Playing Level	Integer	0-99	13
Injuries Per Season	Integer	0-99	65
Injuries By Body Part	Integer	0-99	10
Injuries By Type	Integer	0-99	3
Injuries By Gender	Integer	0-99	45
Injuries By Grade Level	Integer	0-99	89

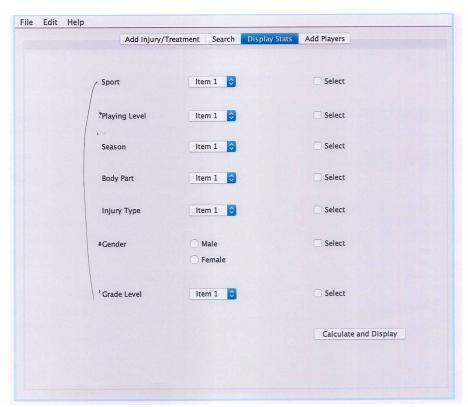
<u>Final Prototype & Prototyping Process</u> Original GUI Prototype

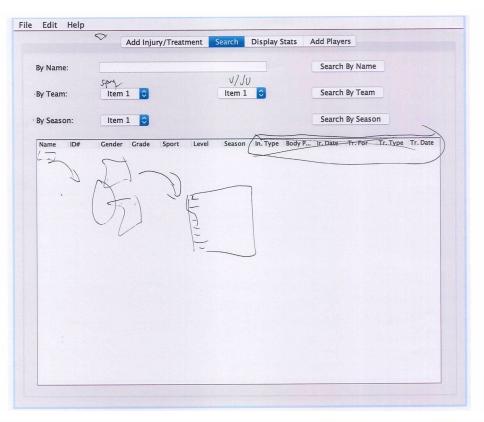




Prototype Corrections and Suggestions

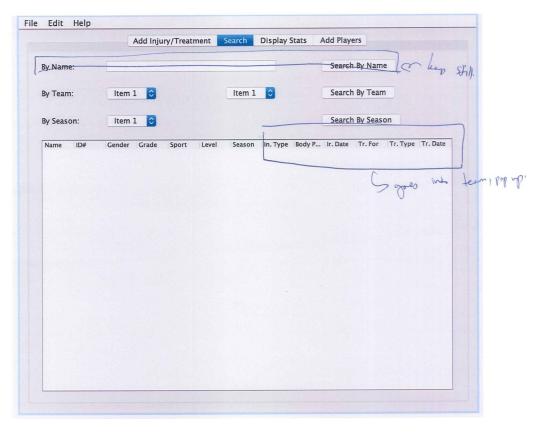






File	Edit	Help					
			Add Injury/Treatment	Search	Display Stats	Add Players	
		Import Roster	": URL				Import
				OR			
		Full Name:					
		Student ID#:					
		Gender:	○ Male				
			Female				
		Sport:	Item 1 🗘				
		Playing Level	item 1 🗘				
		Season:	Item 1 🗘				
		Grade Level:	Item 1 😊				
						A	dd Player

Open of Learning for fill	dit Help	Injury/Treatment Search Display Stats Add Players FOR UP - curry Ongog
	Player:	Select
	Add Injury	
	Body Part:	Item 1 or - Duply state or a youth too.
	Type:	Item 1 or
	Evaluation:	SOAL was To seem who may (southers)
	Date	Item 1 O Item 1 Add Injury
	Add Treatment	
	Select Injury:	Item 1
	Type:	Item 1 O
	Notes: Evaluation:	
		Same as Previous Add Treatment



File Edit Help			
	Add Injury/Treatr	ment Search Display Stats	Add Players
	Sport	Item 1 😊	☐ Select
	Playing Level	Item 1 😊	Select
	Season	Item 1 🗘	Select
	Body Part	Item 1 🗘	Select
	Injury Type	Item 1 🗘	Select
	Gender	Male Female	Select
	Grade Level	Item 1 🗘	Select
SETT	INT + Field, c	Jane.	Calculate and Display

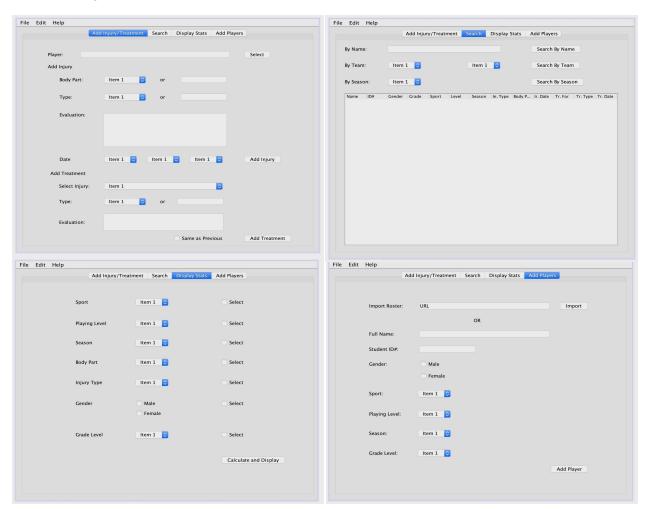
Ad	d Injury/Treatment Search Displa	y Stats Add Players
Import Roster:	URL	Import
	OR	
Full Name:		
Student ID#:		
Gender:	Male	
	Female	R
Sport:	Item 1 😊	No or or
Playing Level:	Item 1 😊	SE Domyou with ale
Season:	Item 1 🗘	
Grade Level:	Item 1 😊	
		Add Player

Changes Paragraph

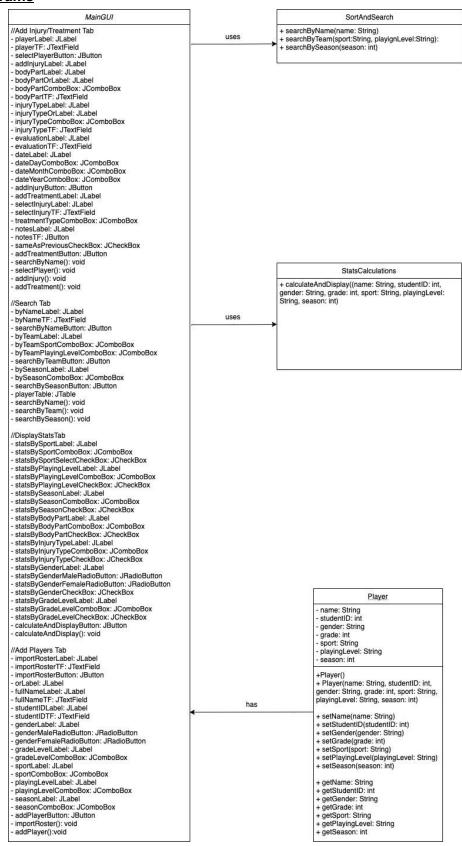
The first change to be made include making a pop-up tab to display all the injury and treatment history as well player information for easy and convenient access. Secondly, there are only a certain number of treatment types therefore a text field isn't necessary for the treatment section. Additionally, in treating the athletes, the physio only takes notes if necessary and doesn't evaluate each time therefore it will be necessary to change the label. In the Search Tab, the display table will only display athlete name, ID number, gender, grade level, sport, playing level and season. On the display stats tab, another option would be to calculate stats based on setting such as which gym or field the injuries happened. Lastly, in the add players tab, a check box will be added for the physio to have the option to indicate that some athletes receiving treatment from him are not on a team but are coming for injuries from PE class or etc.

Word Count: 163

Final Prototype



Class Diagrams

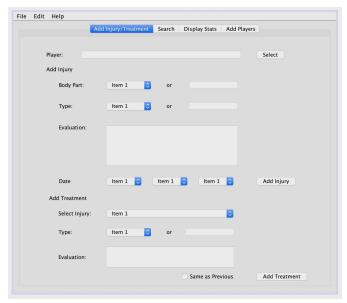


Chronological Development Plan

- GUI Coding
 - Finalize positioning and selection of GUI elements to be used
 - Name all elements and variables
 - Add MouseReleased events for buttons
- Do the "Player" template class
 - Declare attributes a player has
 - o Do the "set" and "get" methods
 - Create an array of injuries and treatments that is assigned to each players array element
- Make the SortAndSearch class
 - Decide which is the best sort to use
 - Program the sort and search methods
 - Call the methods from the main class
- Work on methods within the main class
 - Create an array of players on the roster
 - o Do the method that refreshes, filters and sorts the display table
 - Do the method importing or adding players to the roster
 - Do the method adding injuries and treatments
 - Do the method that calculates the statistics for injury rates and make the JOptionPane popup to display that information

Testing Plan

Add Injury/Treatment Tab



On the "Add Injury/Treatment" tab, the user will enter information about the player's injuries and treatments. Text fields are used secondary to combo boxes which will allow the user to enter any text.

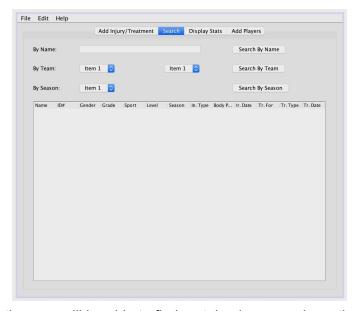
Things Done on this Tab

Inputs

- Players are selected from the roster after entering their name in the text field.
- Injury information is entered through the text fields and combo boxes.
- Treatment information is entered through the text fields and combo boxes.

Input	Normal	Border	Abnormal	Extreme
Player Name	John Doe	Any string value. Warning message if nothing entered.	Other characters or numbers. Warning message, and not taken in.	Very long name but no limit on what can be entered.
Body Part	Ankle	Any string value. Warning message if nothing entered while nothing is selected in the combo box.	Other characters or numbers. Warning message, and not taken in.	Very long name of body part but no limit on what can be entered in this field.
Туре	Sprain	Any string value. Warning message if nothing entered while nothing is selected in the combo box.	Other characters or numbers. Warning message, and not taken in.	Very long name of injury type but no limit on what can be entered in this field.
Injury Evaluation	Mild swelling.	Any string value. Warning message if nothing entered but user has the option to click a button to ignore the message and skip.	Individual notes therefore nothing is abnormal in this field.	Very long paragraphs but no limit.
Treatment Notes	Progressing well.	Any string value. Warning message if nothing entered but user has the option to click a button to ignore the message and skip.	Individual notes therefore nothing is abnormal in this field.	Very long paragraphs but no limit.

Search Tab



On the "Search" tab, the user will be able to find certain players and see their injuries and treatments as well as personal information. Text fields and combo boxes are used to allow the user to efficiently search for players.

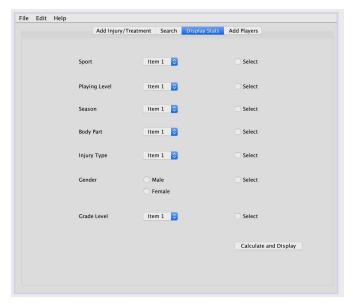
Things Done on this Tab

Input

- Player names can be typed in the text field to search by name.
- Users can select which team, playing level or season in the combo box to search by those criterias.

Input	Normal	Border	Abnormal	Extreme
Player Name	John Doe	Any string value. Warning message if nothing entered.	Other characters or numbers. Warning message, and not taken in.	Very long name but no limit on what can be entered.

Display Stats Tab



On the "Display Stats" tab, the user will select the check box for the criteria in which they want to calculate the injury rates, for example, by gender. They'll also for each criteria, have the option to select in the combo box which aspect of the criteria they'd like to see information from.

Things Done on this Tab

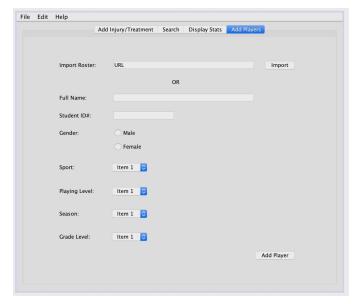
Inputs

- What criterias to calculate and display stats for is selected through the check box.
- Further specific parts to calculate and display stats for can be additionally selected within the criteria using the combo box or radio button.

Internal Functioning

- Calculation and display of stats

Add Players Tab



On the "Add Players" tab, the user will be able to add players manually by entering basic information they have to keep track of.

Inputs

- Player name and student ID is entered through the text field.
- Gender is selected through the radio button.
- Sport, playing level, season, and grade level the athlete is associated with is selected using combo boxes.

Internal Functioning

- Add to the array list of players.

Input	Normal	Border	Abnormal	Extreme
Player Name	John Doe	Any string value. Warning message if nothing entered.	Other characters or numbers. Warning message, and not taken in.	Very long name but no limit on what can be entered.
Player ID#	17763	Any integer value. Warning message if nothing entered while checkbox of "Others" not selected.	Other characters, letters or decimal values Warning message, and not taken in.	Very long integer but no limit.

Word Count: 151