1. Login

Use Case Name: Login to Statistics System	ID: 01	Importance Level: Low
Primary Actor: System User		Use Case Type: Detail, Essential
Stakeholders and Interests: System User – Either coach or administrator that is looking to use the system. System – The main tool that will be used by the coaches or administrators.		
Brief Description: This use case describes how users will access the system.		
Trigger: User will go to system to login. Type: Internal		

Relationships:
          Association: System User
          Include:
          Extend:
          Generalization:		

Normal Flow of Events:
     1.   The user will navigate to the system login page.
     2.   The user will enter their system username that has been given to them.
     3.   The user will enter their system password that has been given to them.
     4.   The user will use some sort of two-factor authentication to access the system.
     5. The user will enter the system.		

SubFlows:		
Alternate/Exceptional Flows: 1. The login attempt was unsuccessful due to an incorrect username or password. 2. The two-factor authentication failed due to an incorrect answer.		

Associated System Requirements:
SR001: The home dashboard will allow a login system.

Trace Matrix	Use Cases	Logs into Home Dashboard
Requirements		
ID: SR001 – The home dashboard will allow a login system.		X

Use Case Diagram:

System Login

Logs into System

System User
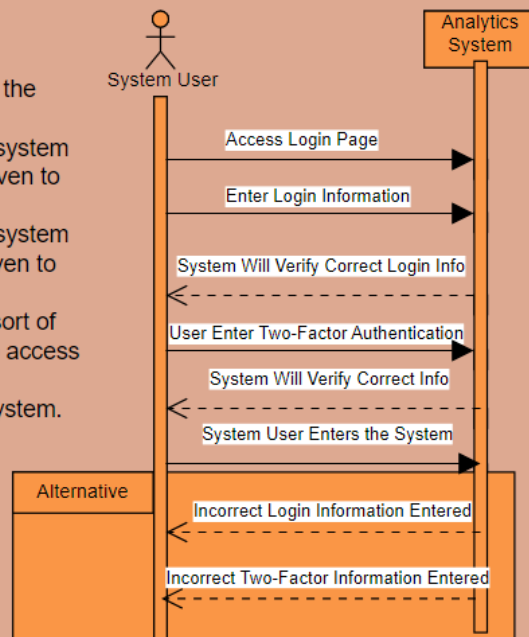
UofL Mens Basketball Statistics System
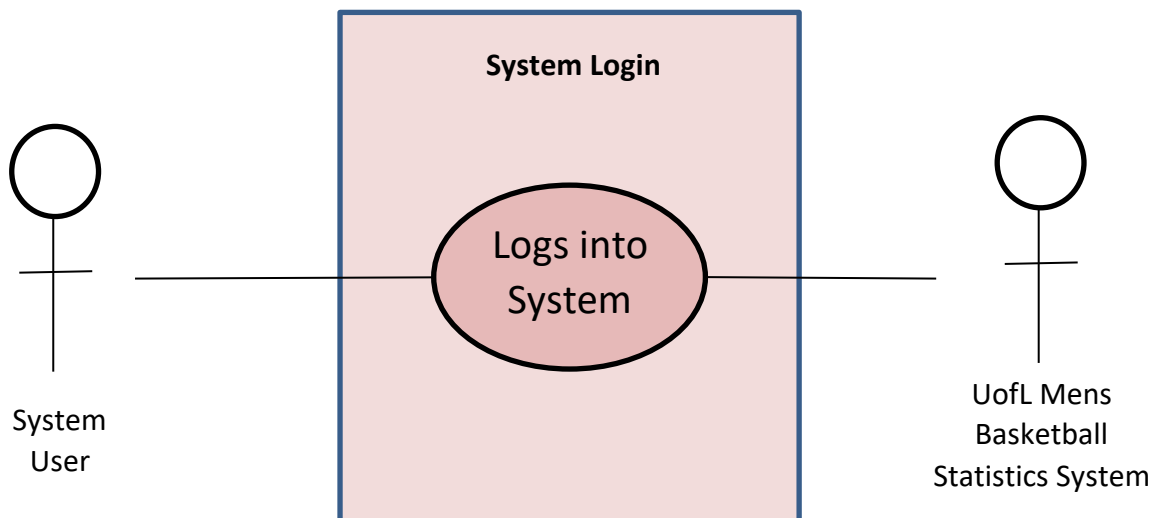
The Use Case Diagram for this use case shows the interaction between a user that is wanting to access the UofL Men's Basketball Statistics System. They will access the login screen, when the correct information is input. They will enter the men's basketball statistics system.

Sequence Diagram:

Login to System

Main Flow:
1. The user will navigate to the system login page.
2. The user will enter their system username that has been given to them.
3. The user will enter their system password that has been given to them.
4. The user will use some sort of two-factor authentication to access the system.
5. The user will enter the system.

System User

Analytics System

Access Login Page

Enter Login Information

System Will Verify Correct Login Info

User Enter Two-Factor Authentication

System Will Verify Correct Info

System User Enters the System

Alternative

Incorrect Login Information Entered

Incorrect Two-Factor Information Entered

Prototype:

2. Logout

| Use Case Name: Log out of the system	ID: 08	Importance Level: High
Primary Actor: System User		Use Case Type: Detail, Essential
Stakeholders and Interests: System User – Either coach or administrator that is looking to exit the system. System – The main tool that will be used by the coaches or administrators.		
Brief Description: This use case describes how users will logout of the system.		
Trigger: User will go to system main dashboard to exit. Type: Internal		

Relationships:
       Association: System User
       Include:
       Extend:
       Generalization:		

Normal Flow of Events: 1. The user will navigate to the home dashboard		

	2. The user will find the logout button 3. The system will ask if the user is sure they want to log out. 4. The system will save all work done that has not already been saved. 5. The user will log out of the system.
SubFlows:	
Alternate/Exceptional Flows: 4a. The system could not complete the save, and the system will restart the logout process.	

Associated System Requirements:

SR008: The home dashboard will allow users to log out.

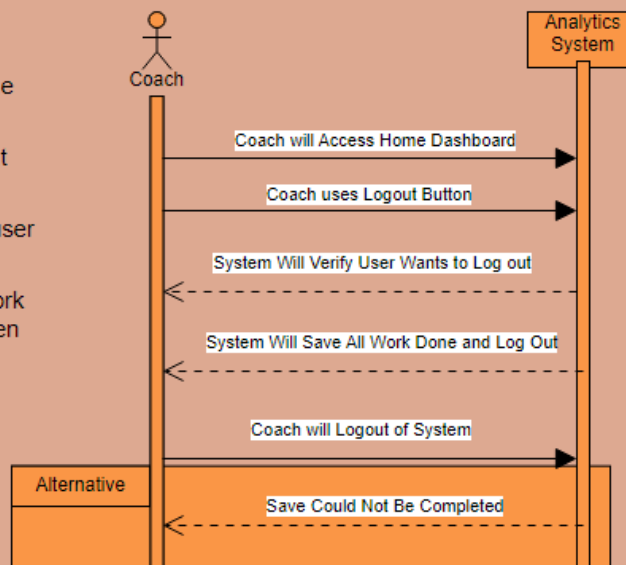| Trace Matrix	Use Cases	Log out of the system
Requirements		
ID: SR008 – The home dashboard will allow users to logout		X

Use Case Diagram:
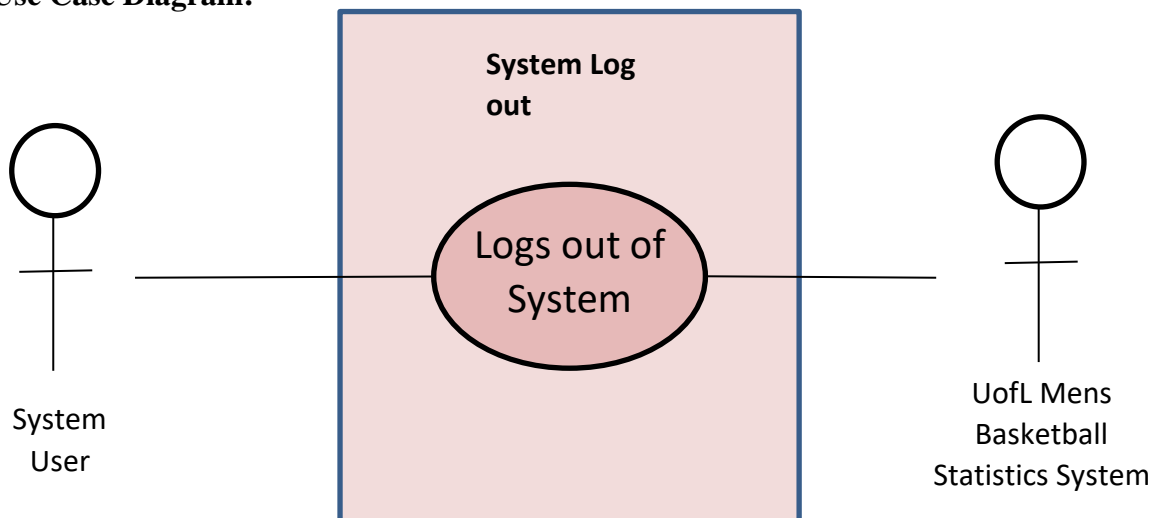
This use case diagram shows the interaction between the Men's basketball Statistics System and the user when they are wanting to log out. The user will access the log out screen and then be prompted to log out.

Sequence Diagram:

Logout of System

Main Flow:
1. The user will navigate to the home dashboard

2. The user will find the logout button

3. The system will ask if the user is sure they want to log out.

4. The system will save all work done that has not already been saved.

5. The user will log out of the system.

Coach

Analytics System

Coach will Access Home Dashboard

Coach uses Logout Button

System Will Verify User Wants to Log out

System Will Save All Work Done and Log Out

Coach will Logout of System

Alternative

Save Could Not Be Completed

Prototype:
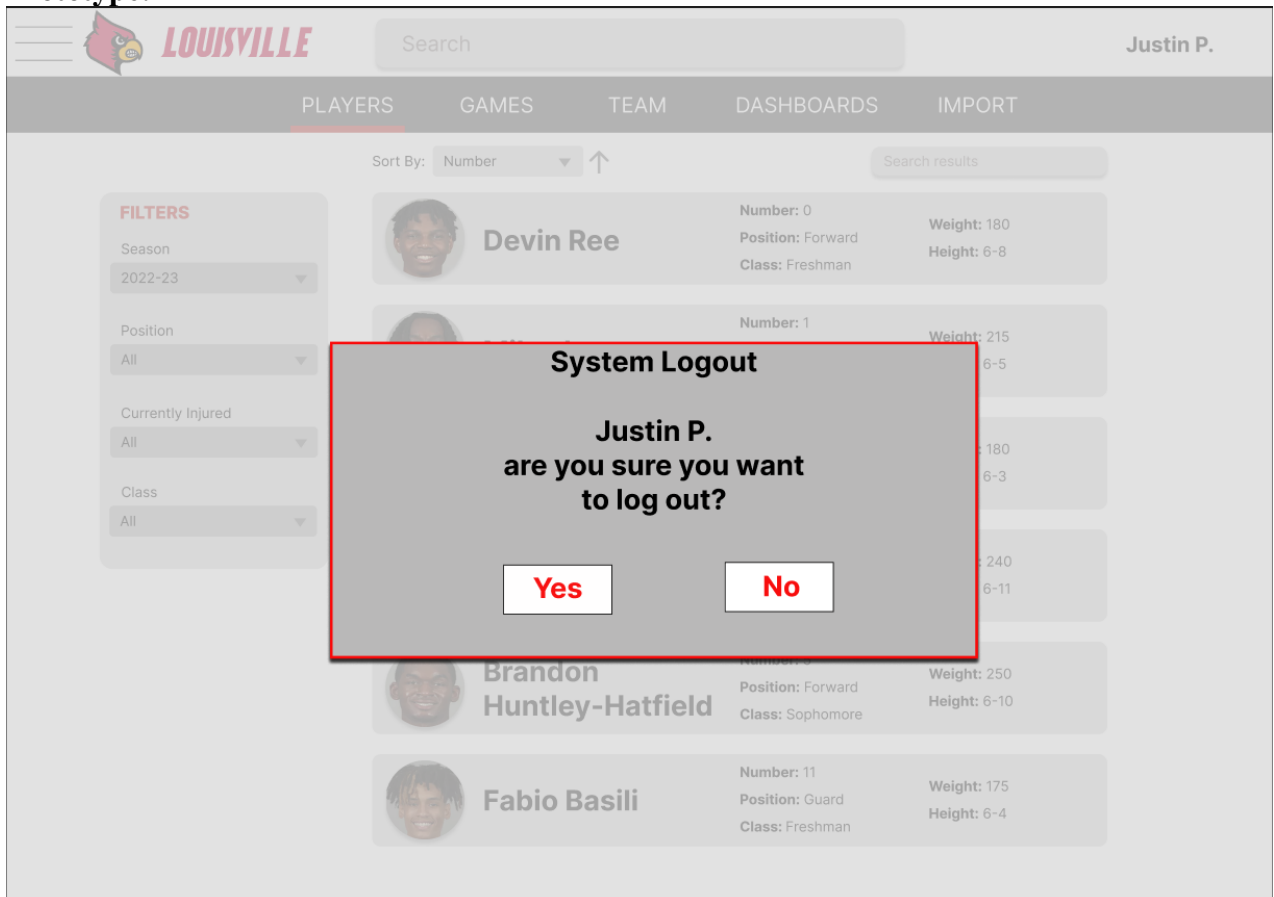
3. Search and Access Files (Use case 9 & 10)

Use Case Name: Search for Information	ID: 09	Importance Level: Low
Primary Actor: Coach		Use Case Type: Detail, Essential
Stakeholders and Interests: Coach – Is looking for specific information that could be game schedule or team statistics. System – The main tool that will be used by the coach to search for information.		
Brief Description: This use case describes how a coach will use the search bar in the home dashboard to find specific information.		
Trigger: The coach will enter the home dashboard and click the search bar. Type: Internal		

Relationships:
       Association: Coaches
       Include:
       Extend:
       Generalization:		

Normal Flow of Events:
   1. The coach will access the home dashboard
   2. The coach will find the search bar.
   3. The coach will enter keywords to let the system know what they are looking for.
   4. The system will provide what the coach was looking for.		

SubFlows:		
Alternate/Exceptional Flows: 3a. The system will fail to gather information from the keywords entered. 4.a The system will fail to show the coach the information and will require the search to be restarted.		

Use Case Name: Access Statistical Files	ID: 10	Importance Level: Low
Primary Actor: Coach		Use Case Type: Detail, Essential
Stakeholders and Interests: Coach – Looking to access statistical files to gather information for team improvement.		

System – The main tool that will be used by the coaches.
Brief Description: This use case describes how a coach will access statistical files from the system.
Trigger: The coach will go to the dashboard tab and will search for specific statistical files. Type: Internal

Relationships:
        Association: Coach
        Include: Search for Information
        Extend:
        Generalization:

Normal Flow of Events:
   1. The coach will access the dashboard tab.
   2. The coach will find which files they want to access through keywords.
   3. The coach will select the files they want to access.
   4. The system will open the files the coach has selected.
   5. The coach will have access to the selected files.

SubFlows:
Alternate/Exceptional Flows: 4a. The files selected were unable to be opened and will require the coach to reselect the files.

Associated System Requirements:

SR009: The home dashboard will allow users to search the system.
SR010: The home dashboard will allow information to be entered.

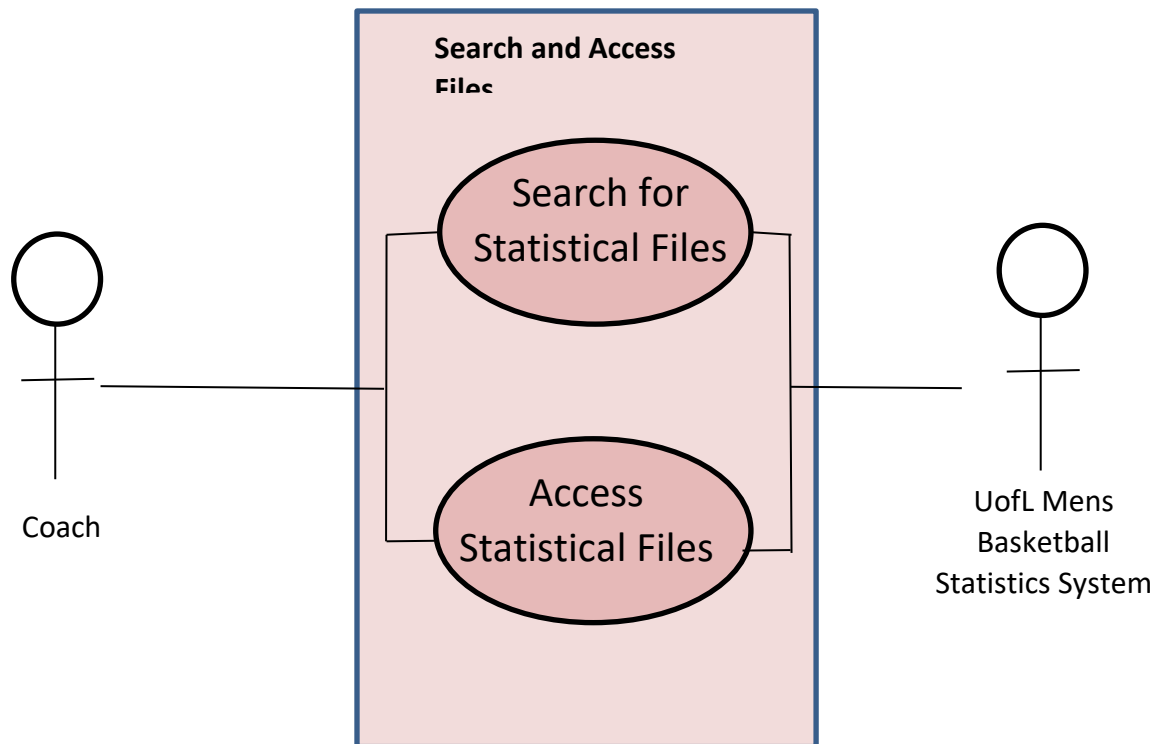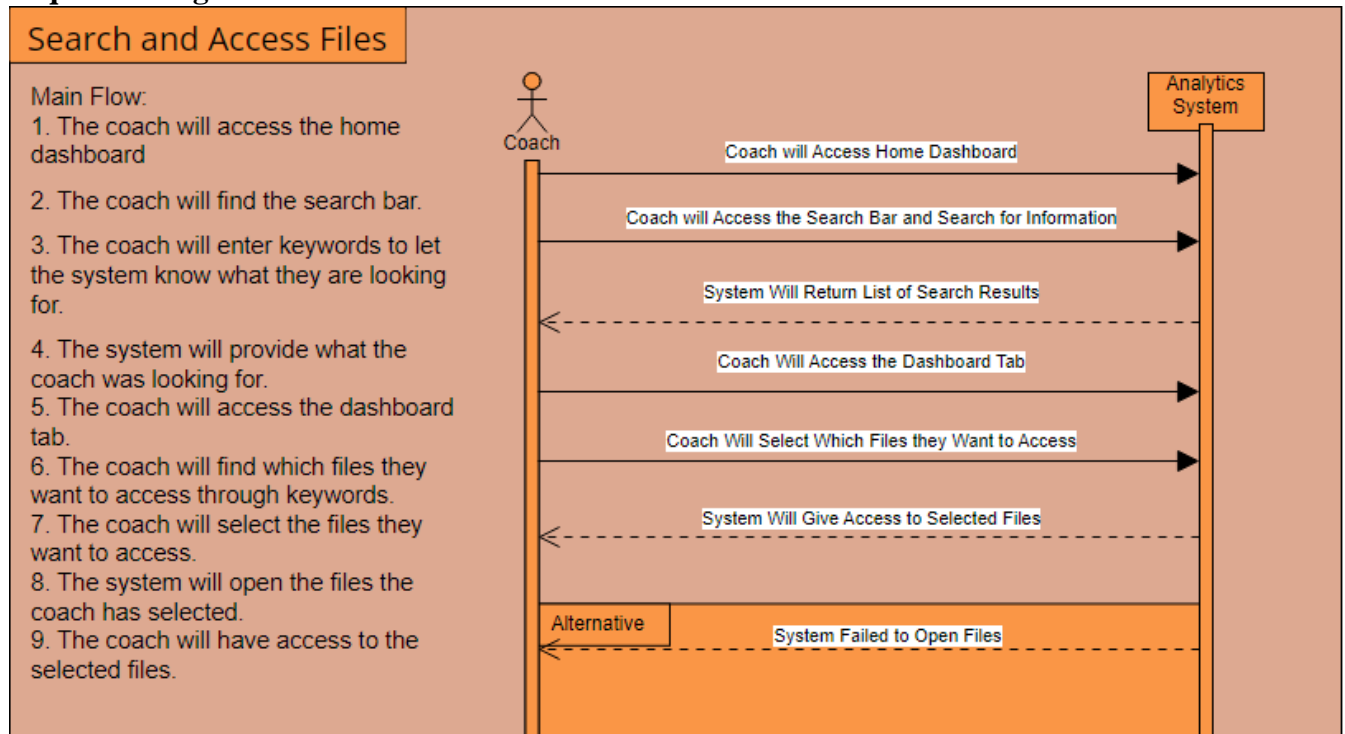| Trace Matrix	Use Cases	Search for Information	Access Statistical Files
Requirements			
ID: SR009 – The home dashboard will allow users to search the system.		X	
ID: SR010 - The home dashboard will allow information to be entered.			X

Use Case Diagram:

Search and Access
Files

Search for
Statistical Files

Access
Statistical Files

Coach

UofL Mens
Basketball
Statistics System

Sequence Diagram:

Search and Access Files

Main Flow:
1. The coach will access the home dashboard

2. The coach will find the search bar.

3. The coach will enter keywords to let the system know what they are looking for.

4. The system will provide what the coach was looking for.
5. The coach will access the dashboard tab.
6. The coach will find which files they want to access through keywords.
7. The coach will select the files they want to access.
8. The system will open the files the coach has selected.
9. The coach will have access to the selected files.

Coach

Analytics System

Coach will Access Home Dashboard

Coach will Access the Search Bar and Search for Information

System Will Return List of Search Results

Coach Will Access the Dashboard Tab

Coach Will Select Which Files they Want to Access

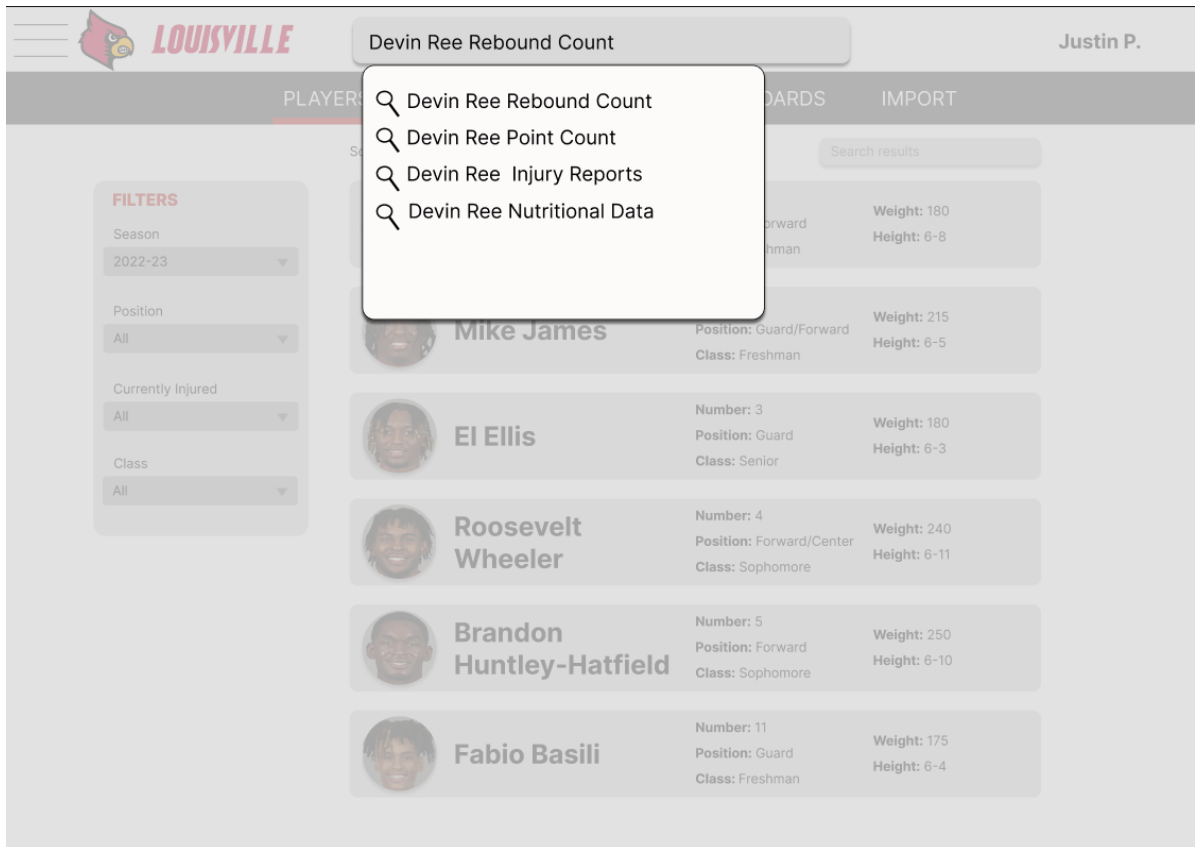System Will Give Access to Selected Files

Alternative

System Failed to Open Files

Prototype:

4. Add and Delete Data Through File Import Dashboard

Use Case Name: Add Data through File Import Dashboard	ID: 11	Importance Level: High
Primary Actor: Coach		Use Case Type: Detail, Essential

Stakeholders and Interests: Coach – Looking to enter information that will help with team improvement. Data Entry Specialist – Person who is asked to enter data for the system. System – The main tool that will be used by the coaches or data entry specialist.
Brief Description: This use case describes how a coach will add data through the file import dashboard.
Trigger: The coach or data entry specialist will go to the file import dashboard. Type: Internal

Relationships:
        Association: Coach
        Include:
        Extend:
        Generalization:

Normal Flow of Events:
1. The Coach will enter the statistical system.
2. The coach will navigate to the file import tab.
3. The coach will either choose to import a file or manually enter the data.
4. The system will give access to which choice the coach selected.
5. The system will take the data entered and store it.

SubFlows:

Alternate/Exceptional Flows:
4a. The system will fail to collect the file imported.
4b. The system will require the coach to enter the file again.
5a. The system will fail to store the data and will require the coach to enter the data again.

Use Case Name: Delete Data from File Import Dashboard	ID: 12	Importance Level: High
Primary Actor: Coach		Use Case Type: Detail, Essential
Stakeholders and Interests: Coach – Looking to delete data that is no longer needed for team improvement. Data Entry Specialist – Person who is asked to delete data from the system. System – The main tool that will be used by the coaches or data entry specialist.		
Brief Description: This use case describes how a coach will delete data that is no longer needed for the men's basketball team.		
Trigger: The coach or data entry specialist will go to the file import dashboard. Type: Internal		

Relationships:
    Association: Coach
    Include:
    Extend:
    Generalization:		

Normal Flow of Events: 1. The coach will enter the statistical system. 2. The coach will navigate to the file import dashboard. 3. The coach will either choose if they will delete manually entered data or delete imported files. 4. The system will take the choice selected by the coach and give them access to delete. 5. The system will save the changes that occurred.		
SubFlows:		

Alternate/Exceptional Flows:

Associated System Requirements:
SR011: The file dashboard will allow users to access statistical files.
SR012: The file dashboard will allow users to delete statistical files.

Trace Matrix	Use Cases	Add Data Through File Import Dashboard	Delete Data From File Import Dashboard
Requirements			
ID: SR011 – The file dashboard will allow users to access statistical files.		X	
ID: SR012 – The file dashboard will allow data to be added.			X

Use Case Diagram:

Sequence Diagram:

Add and Delete Data Through File Import Dashboard

Main Flow:
1. The Coach will enter the statistical system.
2. The coach will navigate to the file import tab.
3. The coach will either choose to import a file or manually enter the data.
4. The system will give access to which choice the coach selected.
5. The system will take the data entered and store it.
6. The coach will enter the statistical system.
7. The coach will navigate to the file import dashboard.
8. The coach will either choose if they will delete manually entered data or delete imported files.
9. The system will take the choice selected by the coach and give them access to delete.
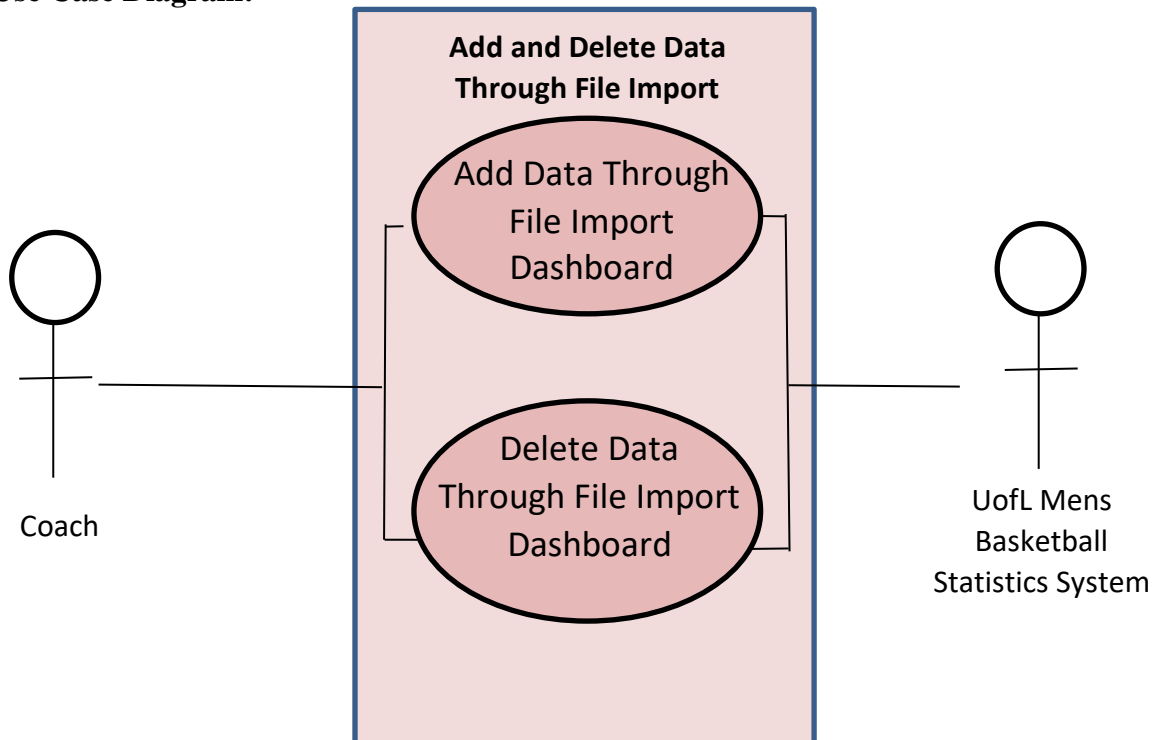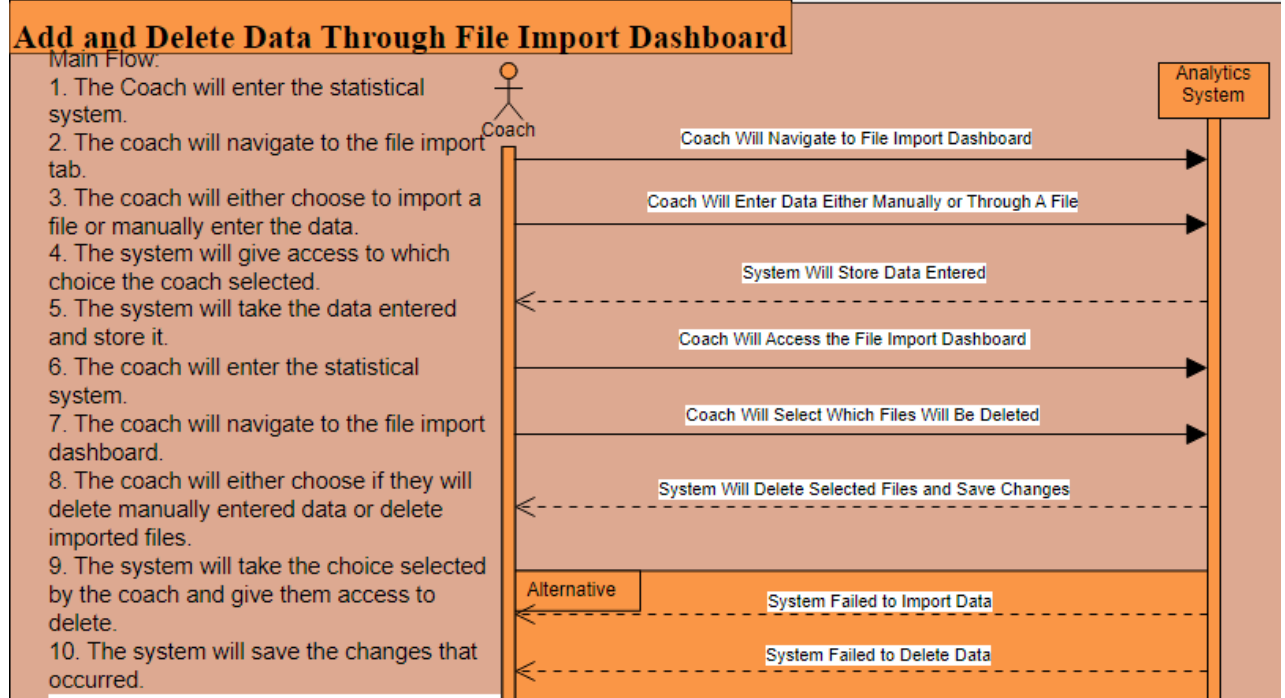10. The system will save the changes that occurred.

Coach

Analytics System

Coach Will Navigate to File Import Dashboard

Coach Will Enter Data Either Manually or Through A File

System Will Store Data Entered

Coach Will Access the File Import Dashboard

Coach Will Select Which Files Will Be Deleted

System Will Delete Selected Files and Save Changes

Alternative

System Failed to Import Data

System Failed to Delete Data

Prototype:

Screen 1: Data Import

LOUISVILLE

Search   Justin P.

PLAYERS   GAMES   TEAM   DASHBOARDS   IMPORT

Data Import

Data Type: [Exercise Data ▾]   Data Source: [Perch ▾]

Drag and drop file here

or

[Select File]

[Start Import]

Screen 2: Delete Data

LOUISVILLE

Search   Justin P.

PLAYERS   GAMES   TEAM   DASHBOARDS   IMPORT

Delete Data

	Name	File Type	Date Added
☐	Mens Basketball Injury statistics March-April	[Excel]	04/30/2023
☐	Mens Basketball Injury statistics May-June	[Excel]	06/30/2023
☑	Mens Basketball Injury statistics July-August	[Excel]	08/31/2023

[Search]   [Delete Selected Files]

Class Diagram of all Use Cases:
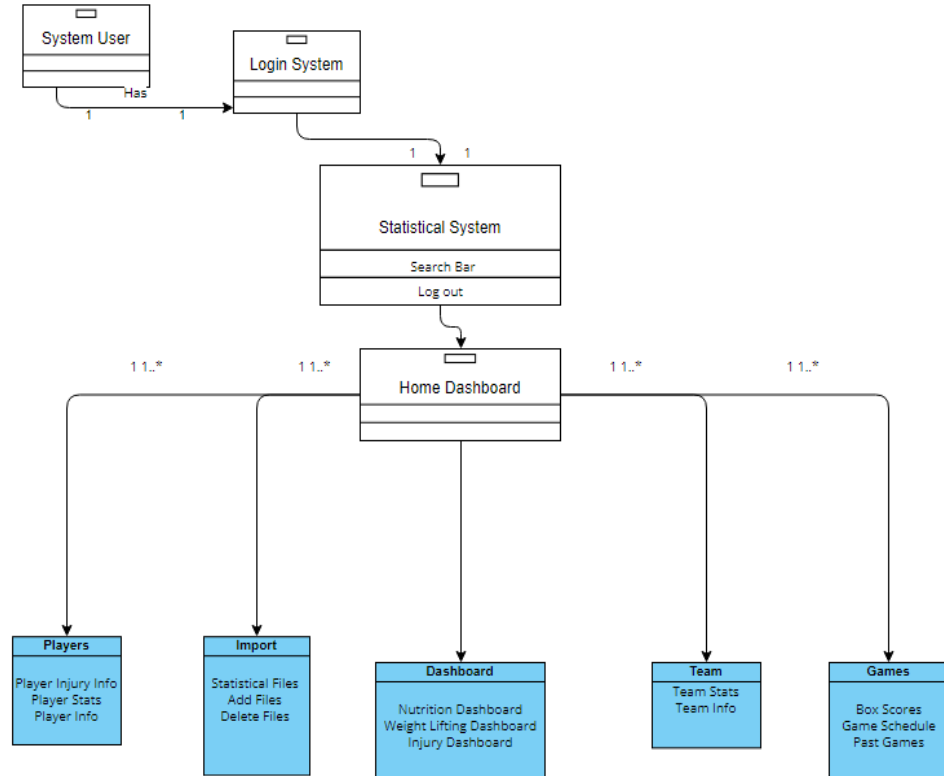
This Class Diagram describes the structure of the whole system and what attributes are within it. The user will start out entering the login system and then they will enter the actual statistical system. Then there are 5 classes that represent all the different branches of the system. Each of the classes contains their respective attributes.