RecDawgs

Recreational Sports Management System

Version 1.0

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Team9

Justin Tumale Logan Jahnke Jay Springfield Bowen Yang

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1 - Introduction

1.1 - Purpose

RecDawgs is a Recreational Sports Management Systems designed to support the management of several recreational sports leagues for a small college with minimal involvement of college staff.

1.2 - Scope

The product to be produced is titled 'RecDawgs'. The scope of RecDawgs includes its features, benefits, and limitations.

1.2.1 - Features:

- 1. The system will allow an administrator to enter into the system a number of *sports venues*. Each sports venue will specify its *name*, *address*, and if it is an *indoor* or *outdoor* venue.
- 2. The system will allow an administrator to enter into the system a number of *sports leagues*, for example, touch football, softball, or tennis. An administrator will be able to specify the *official league and match rules* for each league. Also, the administrator will be able to define the *minimum and maximum number of teams*, as well as the *minimum and maximum number of team members*. A league will also be specified as *indoor* or *outdoor*.
- 3. An administrator will be able to *make changes* to any information currently stored in the system. For example, it will be possible to change the minimum/maximum number of teams, league and match rules, re-assign sports venues to different leagues, etc. It will be possible to remove leagues, venues, etc., as well.
- 4. A user (a student) will be able to *register with the system*. To do that, the user will establish the *username* and *password*, and then provide a *student number*, a *college major*, *email address*, and the *residence address*. A registered user will be able to login and logout from the system. A user will be able to *modify* his/her user information.
- 5. A user will be able to create a *team* and enter it for one of the available sports leagues, provided the current number of teams is lower than the defined maximum for the league. The user specifies the *name of the team*. Furthermore, the user who created a team automatically becomes the *captain of the team*.
- 6. A user will be able to sign up for one of the existing teams, provided the current number of team members is lower than the defined maximum for the league. Once the team

- reaches the minimum number of team members, it becomes a full participant in the league.
- 7. A sports league, which does not have the minimum number of fully participating teams, as defined for the league, may be *cancelled* by the administrator. Otherwise, it becomes *active*. Teams in an active league play *matches*. Each team plays one match against each other team in the league. Each match will have a winner (no draws are allowed) and the *score* will be numeric (two non-negative numbers).
- 8. The system will be able to automatically create a list of matches to be played in league, once it becomes active, listing the opposing teams for each match. A match has *two teams* and a *sports venue*. The list is subdivided into rounds.
- 9. Both team captains will enter the same *score of a match* for it to be official and recorded in the league. In case of a dispute, an administrator will also be able to enter the score of a match. Once all matches have been played, one team is designated as the *winner of the league*. An administrator will also be able to indicate the league winner, if needed.
- 10. A user, even a team's captain, will be able to cancel his/her membership from a team. In case there are unexpected changes to the team roster, an administrator will be able to appoint a regular team member as the team's captain.
- 11. A user will be able to select a league and view the match results and a current table of teams, including a summary of wins, losses, and a cumulative score (all points won and lost).
- 12. The system will be *accessible from a common Web browser* (such as the Mozilla Firefox, Google Chrome, Safari, and Internet Explorer).
- 13. The system should provide *multi-user access*, assuring correct concurrent behavior. The system should maintain suitable *authorization* information and *authenticate access*. *User authentication* should be implemented by checking *username* and *password*.
- 14. The system will have an *easy-to-use user interface* (UI) with screens designed for each part of the system's functionality and suitable for different types of users (customers, administrators, managers).
- 15. The system will use a *persistent data store* (MySQL RDBMS) for all of the relevant data.
- 16. The system should use accepted *standards* whenever possible (HTML, CGI, Servlet API, JDBC, ODBC, SQL, etc.). The project *will* be coded in either C++ or Java, possibly including other scripting languages, such as PHP and JavaScript, if needed.

1.2.3 - Benefits:

The benefits of RecDawgs is to provide organization of sports league competitions with ease of use and minimal involvement of college staff.

1.2.4 - Limitations:

RecDawgs will not:

- keep a live score of ongoing matches.
- feature highlight videos of league matches.
- allow users to sign up to multiple teams or leagues, due to the high risk of scheduling conflicts.
- offer a direct messaging service.
- offer a bulletin posting service.
- allow any other user besides the administrator to assign team captains.

1.3 - Definitions, Acronyms, and Abbreviations

1.4 - References

Almstrum, V., Dr. (n.d.). Software Requirements Document Model. Retrieved February 1, 2016, from http://web.stonehill.edu/compsci/CS400/SoftwareRequirementsDocument.doc

Kochut, K. J., Dr. (2016). Term Project. Retrieved February 01, 2016, from http://cobweb.cs.uga.edu/~kochut/teaching/x050/TermProject.html

McKinnon, A. D. (2005, February 09). Software Requirements Specification Template. Retrieved February 1, 2016, from http://www.tricity.wsu.edu/~mckinnon/cpts322/cpts322-srs-v1.doc

1.5 - Overview

This requirements document for RecDawgs contains the introduction, a specification for the proposed system including the requirements, constraints, and system models, and a glossary. It is organized as such:

Section 1: Introduction

- 1.1 an introduction to the RecDawgs system
- 1.2 the scope of RecDawgs, which includes its features, benefits, and limitations.
- 1.3 a definition of terms, acronyms, and abbreviations that will be used throughout this document
- 1.4 the limitations of RecDawgs

Section 2: Current system (skip)

- Section 3: Proposed System
 - 3.1 System Overview
 - 3.2 Functional Requirements
 - 3.3 Non-functional requirements
 - 3.4 Constraints
 - 3.5 System Models
 - 3.5.1 Scenarios
 - 3.5.2 Use case model
 - 3.5.3 Domain object model
 - 3.5.3.1 Data dictionary (domain objects)
 - 3.5.3.2 Class diagrams
 - 3.5.4 Dynamic models
 - 3.5.5 User interface

Section 4: Glossary

2 - Current System (Skip)

3 - Proposed System

3.1 - System Overview

The proposed system, RECDAWGS, is our solution to manage recreational sports at a college. The system, which will use a website and a database, will allow an administrator to facilitate things like creating and managing leagues, monitoring game scores, and monitoring site activities in general. Players will be allowed to create teams, join teams, and play matches against other teams in the league based on a schedule laid out by the RECDAWGS system. Each team will have a team captain, who will manage their team and report scores from the matches played throughout the season. All users of the RECDAWGS system will be able to access the system by registering, logging in, view league stats, and log out of the system.

3.2 - Functional Requirements

3.2.1 - Administrator Interactions:

- Create League
- Edit League
- Cancel League
- Create Sports Venue
- Appoint Team Captain
- Report Match
- Logout

3.2.2 - Player Interactions:

- Create Team
- Join Team
- Leave Team
- Logout

3.2.3 - Captain Interactions:

- Leave Team
- Report Match
- Logout

3.2.4 - Unauthenticated User Interactions:

- Register
- Login

3.3 - Non-functional Requirements

3.3.1 - Performance:

- RecDawgs will provide multi-user access (Administrator and Player)
- RecDawgs will have an easy-to-use software interface for both the Administrator(s) and the Player(s)
- RecDawgs will have persistent data storage using MySQL RDBSM
- RecDawgs will be accessible from any common internet browser
 - o Safari
 - o Google Chrome
 - o Firefox
 - Internet Explorer

3.3.2 - Reliability:

• RecDawgs will be available 24 hours/day and 7 days/week

3.3.3 - Maintainability:

• The Administrator will have complete control over Leagues and Teams

3.3.4 - Implementation:

- RecDawgs will be implemented using the standard programming languages.
 - o HTML/CSS
 - o SQL
 - Javascript

3.3.5 - Extensibility:

- Administrators will be able to add new Sports Venues and new Leagues
- Players will be able to create teams

3.4 - Constraints

- The implementation language must be standard programming languages
- The user-interface must be accessible from any common internet browser

3.5 - System Models

3.5.1 - Scenarios:

Scenario	Dan Creates a team with his friends
Participating Actors	Team Captain: Dan Players: Dan's friends
Steps	 Dan and his friends would like to play in the RECDAWGS soccer league as a new team. Dan registers for RECDAWGS. Dan logs into RECDAWGS. Seeing that there are still available slots for new teams in the soccer league, Dan enters the League Team menu and presses 'CREATE NEW TEAM'. Dan enters the team's name and hits submit and is by default the 'Team Captain'. Dan's friends also register for RECDAWGS. They select Dan's team from the League Team menu and join his team by pressing 'JOIN TEAM'.

Scenario	Andrew wants to join the system through registration.
Participating Actors	Player: Andrew
Steps	 Andrew, a UGA student, wants to play an IM sport. Andrew presses the "Register" button on the website. The RECDAWGS system presents Andrew with a registration form with empty text boxes for information like email address, physical address, phone number, user name, and password. Andrew fills out the information and presses the "Save and Register"

Scenario	Bob wants to see how his friend's league is doing
Participating Actors	Player: Bob
Steps	 Bob wants to see how well his friend's team is doing Bob logs into RECDAWGS Bob finds his friends league and clicks on 'View League Stats' RECDAWGS displays the current scores for the league his friend is playing in

Scenario	Jay wants to change the name of a league.
Participating Actors	Admin: Jay
Steps	 Jay is an admin and sees that he accidently spelled a league name incorrectly Jay logs into his Admin account Jay presses the "Edit League" button Jay is presented with a form with the league's current information already filled in Jay clicks on the league name text box, and types in the correct name Jay presses the "Save Changes" button and the form screen closes

Scenario	Sarah spelled her name wrong in the system
Participating Actors	Player: Sarah
Steps	 Sarah recently registered for RECDAWGS Sarah notices that her name is entered as 'Saeah' in the system Sarah logs into her RECDAWGS account and clicks 'Modify Account' from the main menu Sarah clicks on the 'Name' field and changes it to 'Sarah' Sarah presses submit and her account name is changed

Scenario	John (Team captain) leaves the team
Participating Actors	Team Captain: John Admin: Sarah
Steps	 John decides he doesn't have time to play soccer. John presses the 'Leave team' button. Sarah is notified that a team captain (John) has left his/her team. Sarah appoints a new captain by pressing the 'Appoint Captain' button. Sarah fills out the form and chooses the new captain The team players are notified of the change.

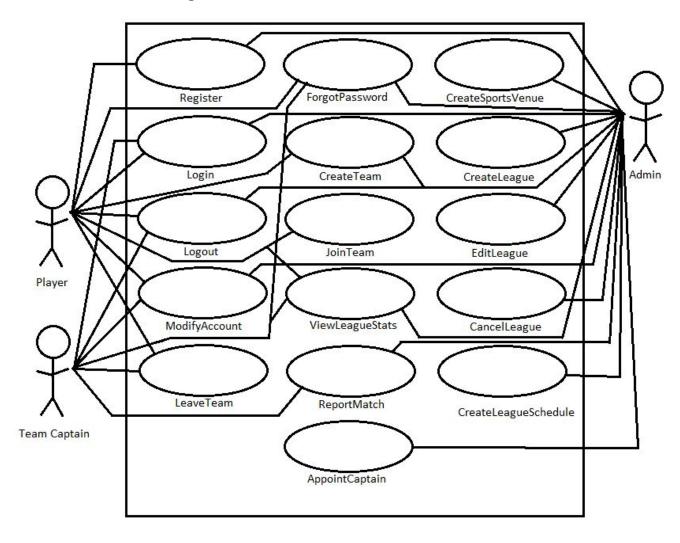
Scenario	Team loses a match
Participating Actors	Team Captain: Bob & John Admin: Sarah
Steps	 Bob's team loses a match against John's team. Bob reports the score of the match to RECDAWGS. John reports the score of the match to RECDAWGS. RECDAWGS compares reports. If they are the same, the match is put into the database and the League Stats are updated; else, RECDAWGS notifies the admin of the conflict and the Admin reports the final score of the match.

Scenario	Bob wants to play Soccer, but it's not registered in RECDAWGS
Participating Actors	Player: Bob Admin: Seth
Steps	 Bob checks RECDAWGS and was unable to find Soccer under Leagues Bob talks to Seth and asks Seth to add Soccer Seth logs into his admin account Seth clicks on the Create League button and fills out the necessary information Bob logs in and signs up for Soccer

Scenario	A bad snowstorm is predicted to occur during a league
Participating Actors	Admin: Seth
Steps	 Seth finds out that a snowstorm is going to happen during the set time for a league Seth logs in to his Admin account Seth clicks on Cancel League button All players in the league are notified of the change

3.5.2 Use Case model

3.5.2.1 - Use Case Model Diagram:



3.5.2.2 - Use Cases:

3.5.2.2.1 - CreateSportsVenue

Name	Create Sports Venue
ID	CreateSportsVenue
Version	1.0
Author	Logan Jahnke
Date	01/27/2016
Summary	Use case to create a new SportsVenue that can be used for games in
j	the leagues.
Basic Path Alternative Paths	 The Admin presses the "Create Sports Venue" button. RECDAWGS responds by presenting a form to the Admin. The Admin completes form that specifies the location of the venue, whether it is indoor or outdoor, and its name. RECDAWGS receives form, compares it database to check if duplication exists. RECDAWGS adds the SportsVenue to the database. The Admin presses the cancel button, the creation of the SportsVenue are sent the Use Consideration of the SportsVenue are sent that Use Consideration of the SportsVenue a
Exception Paths	 SportsVenue ceases, and the Use Case is terminated. If RECDAWGS in step 2a finds a duplicate, then the action is canceled, and the Admin is notified that he/she made a duplicate.
Extension Points	
Triggers	The Admin presses the "Create Sports Venue" button.
Assumption	
Pre-conditions	The Admin is logged into RECDAWGS.
Post-conditions	The SportsVenue object is added to the database.

3.5.2.2.2 - CreateLeague

Name	Create League
ID	CreateLeague
Version	1.0
Author	Logan Jahnke, Bowen Yang
Date	01/27/2016
Summary	Use case to create a new League which host a variety of teams.
Basic Path	The Admin presses the "Create League" button.
	a. RECDAWGS responds by presenting a form to the
	Admin.
	2. The Admin completes form that specifies any initial teams
	that are in the league, as well as any initial players on each
	team.
	a. RECDAWGS receives form, adds it to the database,
	and sends confirmation to admin.
Alternative Paths	The Admin presses cancel and the Use Case is terminated.
Exception Paths	If RECDAWGS in step 2 finds another league of the same name. A error message will pop up and ask the admin whether he/she will rename
Extension Points	
Triggers	The Admin presses the "Create Sports Venue" button.
Assumption	
Pre-conditions	The Admin is logged into RECDAWGS.
Post-conditions	The SportsVenue object is added to the database.

3.5.2.2.3 - EditLeague

Name	Edit League
ID	EditLeague
Version	1.0
Author	Logan Jahnke, Bowen Yang
Date	01/28/2016
Summary	Use case to edit an existing League .
Basic Path	1. The Admin presses the "Edit League" button.
	a. RECDAWGS responds by presenting a form to the
	admin that already has all the information about the
	League being edited that's currently stored.
	2. The Admin edits form that specifies all information about the
	League that was already there.
	a. RECDAWGS receives edited form, adds it to the
	database, and sends confirmation of edits Admin , as
	well as Player(s) within that League .
Alternative Paths	1. The Admin presses the cancel button, the edit of the League
	ceases, and the Use Case is terminated.
Exception Paths	1. If the edit conflicts with current conditions, the Admin will
	be presented with a message "Requirements conflict with
	current conditions". i.e. if 10 teams are signed up but you
	change limit to 8.
Extension Points	
Triggers	The Admin presses the "Edit League" button.
Assumption	There is a League to edit.
Pre-conditions	The Admin is logged into RECDAWGS .
Post-conditions	The League object is edited in the database.

3.5.2.2.4 - Register

Name	Register
ID	Register
Version	1.0
Author	Logan Jahnke, Bowen Yang
Date	01/28/2016
Summary	Use case to create a new User who can join teams to become a
	Player or create a team to become a Captain.
Basic Path	1. The User presses the "Register" button.
	a. RECDAWGS responds by presenting a form to the User .
	 The User completes form that asks for information like a user name, password, a student number, a major, email address, and residence address.
	 a. RECDAWGS receives form and sends a confirmation email to the User so that they can be verified.
Alternative Paths	The User presses the cancel button, the creation of the User ceases, and the Use Case is terminated.
Exception Paths	1. If the User does not fill out a text field (Username, Password, etc.), RECDAWGS will represent the form and the Use Case will fallback to step 2.
	 If the email field is already in the database, RECDAWGS will represent the form, notify the User that the email is in use, and the Use Case will fallback to step 2. If player name is already taken, the player will be prompt to change
	his display name
Extension Points	
Triggers	The User presses the "Register" button.
Assumption	
Pre-conditions	
Post-conditions	The User object is added to the database.

3.5.2.2.5 - Login

Name	Login
ID	Login
Version	1.0
Author	Justin Tumale
Date	01/28/2016
Summary	Use case to log a User or Admin into their account.
Basic Path	RECDAWGS displays text entry boxes for Username and Password.
	2. User/Admin enters valid Username and Password.
	3. User/Admin presses "Login" button located below text entry
	fields.
	4. RECDAWGS verifies that the User/Admin has entered
	valid Username and Password.
	User/Admin is granted access to RECDAWGS.
Alternative Paths	1. The User/Admin presses the cancel button, the login
	procedure ceases, and the Use Case is terminated.
Exception Paths	1. If the User/Admin types in the wrong Username or wrong
	Password, RECDAWGS notifies the User/Admin , the form
	is represented, and the Use Case will fallback to step 1.
Extension Points	
Triggers	The User/Admin presses the "Login" button.
Assumption	The User/Admin already has an account.
Pre-conditions	The User/Admin is not logged into RECDAWGS.
Post-conditions	The User/Admin is logged into RECDAWGS.

3.5.2.2.6 - Logout

Name	Logout
ID	Logout
Version	1.0
Author	Justin Tumale
Date	01/28/2016
Summary	Use case to logout a User/Admin.
Basic Path	 User/Admin navigates to their respective Main Menu. User/Admin presses the "Logout" button on the upper left hand side of the screen. User/Admin exits RECDAWGS and they are redirected back to the Login page.
Alternative Paths	N/A
Exception Paths	
Extension Points	
Triggers	The User/Admin presses the "Logout" button.
Assumption	
Pre-conditions	The User/Admin is logged into RECDAWGS.
Post-conditions	The User/Admin is not logged into RECDAWGS.

3.5.2.2.7 - ModifyAccount

Name	Modify Account
ID	ModifyAccount
Version	1.0
Author	Justin Tumale
Date	01/29/2016
Summary	Use case to edit a User.
Basic Path	 The User presses the "Modify Account" button from the Main Menu. RECDAWGS brings the User to the Modify Account menu. The User makes the necessary changes to the fields that are provided in the Modify Account menu. The User presses the "Submit" button, and is taken back to the Main Menu.
Alternative Paths	In step 3, instead of making changes, the PLAYER decides to discard the changes by pressing the 'BACK' button. In step 3 or 4, instead of submitting the changes, the PLAYER decides to discard the changes by pressing the 'BACK' button.
Exception Paths	1. If the email field is already in the database, RECDAWGS will represent the form, notify the User that the email is in use, and the Use Case will fallback to step 2.
Extension Points	
Triggers	The PLAYER would like to update his or her current account information.
Assumption	
Pre-conditions	The User is logged into RECDAWGS.
Post-conditions	The User object is edited in the database.

3.5.2.2.8 - ForgotPassword

Name	Forgot Password
ID	ForgotPassword
Version	1.0
Author	Jerry Springfield Jr., Logan Jahnke
Date	01/28/2016
Summary	Use case to assign a User a new password when theirs is forgotten.
Basic Path	 The User presses the "Forgot Password" button from the Main Menu. RECDAWGS brings the User to a password recovery menu. The User inputs their email address to have a new password sent to them. The User presses the "Send New Password" button. The User goes to their email account and follows the provided link. The User is presented with two text boxes, New Password and Retype New Password. User fills these two text boxes out with new password. The User presses the "Save Password" button and is prompted to log back in with the new password.
Alternative Paths	The User presses the cancel button, the password edit ceases, and the Use Case is terminated.
Exception Paths	1. If the User inputs an email address that does not exist in the email database in step 3 then they will be notified that the email is not in RECDAWGS and reprompted for an email adress in step 3.
Extension Points	
Triggers	The User presses the "Forgot Password" button.
Assumption	The User can not log into RECDAWGS.
Pre-conditions	The User is not logged into RECDAWGS .
Post-conditions	The User password is edited in the database.

3.5.2.2.9 - CreateTeam

Name	Create Team
ID	CreateTeam
Version	1.0
Author	Justin Tumale
Date	01/29/2016
Summary	Use case to create a new Team that will be stored in a League .
Basic Path	1. The User selects "Leagues" from the main menu.
	a. RECDAWGS responds by bringing the User to the
	"Leagues" menu.
	2. From the "Leagues" menu, the User selects a League and
	presses "View League Teams".
	a. RECDAWGS responds by bringing the user to the
	"League Teams" menu.
	3. From the "League Teams" menu, the User presses "Create
	New Team".
	a. The system brings the User to the Create New Team screen.
	4. The User enters a team name, and then presses submit.
	a. RECDAWGS brings the User to the My Team
	screen.
Alternative Paths	1. Pressing the cancel button while in step 4 sends the User
	back to the "League Teams" menu.
Exception Paths	1. If in step 3, the Player is already registered to a team, the
	system displays 'You are already registered for a team. Please
	leave your current team before creating a new one.'
Extension Points	
Triggers	The User decides the create a new team.
Assumption	The Player is not registered with a current team.
Pre-conditions	The User is logged into RECDAWGS.
Post-conditions	The Team is added to the database, and the User becomes a
	Captain.

3.5.2.2.10 - Join Team

Name	Join Team
ID	JoinTeam
Version	1.0
Author	Jerry Springfield Jr.
Date	01/29/2016
Summary	Use case for a User to join an existing Team .
Basic Path	1. The User selects "Leagues" from the main menu.
	a. RECDAWGS responds by bringing the User to the
	"Leagues" menu.
	2. From the "Leagues" menu, the User selects a League and
	presses "View League Teams".
	a. RECDAWGS responds by bringing the user to the
	"League Teams" menu.
	3. From the "League Teams" menu, the User presses "Join a
	Team".
	a. The system brings the User to the Join a Team screen
	that has a list of the existing Teams in that League .
	4. The User presses the "Join Team" button next to the name of
	an existing Team from the list of Teams .
	a. RECDAWGS brings the User to the My Team
	screen.
Alternative Paths	1. Pressing the cancel button while in step 4 sends the User
	back to the "League Teams" menu.
	2. Pressing the "Create New Team" button in step 3 while in the
	Leagues menu would instead go to the Create Team use case.
Exception Paths	If in step 3, the Player is already registered to a team, the system
	displays 'You are already registered for a team. You can only join a
	team once.'
Extension Points	
Triggers	The User decides to join a team.
Assumption	The Player is not registered with a current team.
Pre-conditions	The User is logged into RECDAWGS.
Post-conditions	The User is added to the Team and database.

3.5.2.2.11 - CancelLeague

r	
Name	Cancel League
ID	CancelLeague
Version	1.0
Author	Jerry Springfield Jr.
Date	01/29/2016
Summary	Use case for an Admin to cancel and remove a League .
Basic Path	1. The Admin selects "Leagues" from the main menu.
	a. RECDAWGS responds by bringing the Admin to the
	"Leagues" menu.
	2. From the "Leagues" menu, the Admin presses "Cancel a
	League".
	a. RECDAWGS responds by bringing the Admin to a
	list of the Leagues .
	3. Next to the League that the Admin wants to cancel, the
	Admin will press the "Cancel League" button.
	a. RECDAWGS responds by updating the database.
	4. Emails are sent out to all Users of the Teams in the cancelled
	League to notify them of the cancellation.
Alternative Paths	1. Pressing the cancel button while in step 3 sends the Admin
	back to the "Leagues" menu.
Exception Paths	N/A
Extension Points	
Triggers	The Admin decides to cancel a League.
Assumption	A League exists, and the Admin would like to cancel that League.
Pre-conditions	The Admin is accessing the RECDAWGS database.
Post-conditions	The League is removed from the RECDAWGS database.

${\bf 3.5.2.2.12-Create League Schedule}$

Name	Create League Schedule
ID	CreateLeagueSchedule
Version	1.0
Author	Jerry Springfield Jr.
Date	01/29/2016
Summary	Use case for if the System is creating a League schedule.
Basic Path	1. The Admin selects "Leagues" from the main menu.
	a. RECDAWGS responds by bringing the Admin to the
	"Leagues" menu.
	2. From the "Leagues" menu, the Admin presses "Create
	League Schedule".
	3. The RECDAWGS System lays out a schedule to assign
	which team is playing which each week.
	4. Emails are sent out to all Users of the Teams in the League
	to notify them of the schedule.
Alternative Paths	N/A
Exception Paths	1. If there is already a schedule for the season, the System
	cannot create a new one.
Extension Points	
Triggers	The season has just begun and the League needs a schedule.
Assumption	A League exists, and they need a schedule for the season.
Pre-conditions	The League does not have a schedule yet and the season is about to
	start.
Post-conditions	The League receives a schedule for all of its teams and is stored in
	the RECDAWGS database.

3.5.2.2.13 - ReportMatch

5.5.2.2.15 Reportiv	
Name	Report Match
ID	ReportMatch
Version	1.0
Author	Logan Jahnke
Date	01/31/2016
Summary	Use case for reporting a match to the System .
Basic Path	1. The Admin/Captain presses the "Report Match" button.
	a. RECDAWGS responds by presenting a form to the
	Admin/Captain.
	2. The Admin/Captain fills out the form by providing the
	match score.
	a. RECDAWGS receives the form, stores the match in
	the database, and sends confirmation to Admin and
	the Captain of both teams.
Alternative Paths	1. The Admin/Captain cancels the report and the Use Case is
	terminated.
	2. If a Captain (A) is reporting a match, and the Captain (B) of
	the other team has not reported the match yet, Captain (B)
	will be notified of a reported match by RECDAWGS and will be asked to confirm.
	a. Note: If Captain (B) does not confirm within three
	(3) days, the Admin will be notified and asked to
	confirm.
	b. After confirmation, step 2a is executed.
Exception Paths	1. If a Captain (A) has reported a match, and the Captain (B)
	of the other team reports the match with a different outcome
	as Captain (A) indicated, the Admin will be notified and
	asked to present the final report.
	a. After the Admin provides the final score, step 2a is
	executed.
Extension Points	
Triggers	The Admin/Captain presses the "Report Match" button.
Assumption	A match has been played.
Pre-conditions	The Captain is a member of the team that played in the match, and
	the match has not been reported.
Post-conditions	The match is added to the database.

3.5.2.2.14 - LeaveTeam

Name	Leave Team
ID	LeaveTeam
Version	1.0
Author	Logan Jahnke
Date	01/31/2016
Summary	Use case that allows a Player or Captain to leave his/her current
-	team.
Basic Path	1. The Player/Captain presses the "Leave Team" button.
	a. RECDAWGS responds by presenting a confirmation
	to the Player/Captain.
	2. The Player/Captain confirms the action.
	a. RECDAWGS receives the confirmation, removes the
	Player/Captain from the team database, and sends
	confirmation to Player/Captain.
Alternative Paths	1. The Player/Captain cancels the action of leaving the team,
	and the Use Case is terminated.
	2. If the Captain leaves the team, the Admin will be notified
	and will be required to choose a new captain (see:
	AppointCaptain).
Exception Paths	
Extension Points	
Triggers	The Player/Captain presses the "Leave Team" button.
Assumption	The Player/Captain is on a team.
Pre-conditions	The Player/Captain is on the team.
Post-conditions	The Player/Captain is removed from the team.

3.5.2.2.15 - AppointCaptain

Name	AppointCaptain
ID	AppointCaptain
Version	1.0
Author	Justin Tumale, Logan Jahnke
Date	01/31/2016
Summary	
Basic Path	 The Admin presses the "Appoint Captain" button on the Edit Team menu. a. RECDAWGS responds by presenting list of players. The Admin selects the captain from the list of players and presses the "Submit" button. a. RECDAWGS receives form, makes changes to the database, and sends confirmation to Admin/Captain. b. The old captain is made a normal player.
Alternative Paths	
Exception Paths	
Extension Points	
Triggers	Initiated by the Admin
Assumption	
Pre-conditions	The Admin is logged into RECDAWGS.
Post-conditions	A user is granted Team Captain privileges.

3.5.2.2.16 - ViewLeagueStats

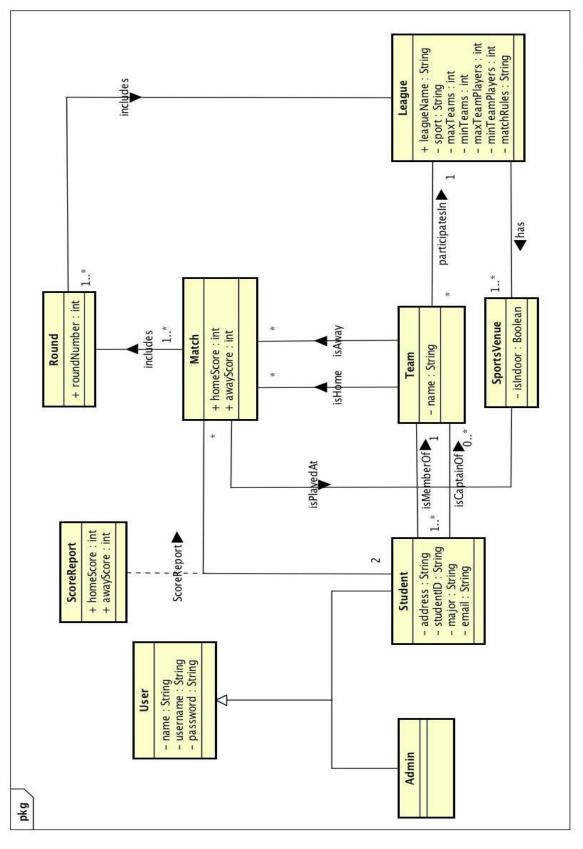
5.5.2.2.10 - VICWICA	8
Name	View League Statistics
ID	ViewLeagueStats
Version	1.0
Author	Logan Jahnke, Bowen Yang
Date	01/31/2016
Summary	Use case that allows a User to view a League's statistics.
Basic Path	1. The Admin/Player/Captain presses the "League Stats"
	button.
	a. RECDAWGS responds by presenting a page with the
	League statistics to the User.
Alternative Paths	
Exception Paths	1. If league has yet to start the Admin/Player/Captain will be
	displayed with a message "League has not started"
Extension Points	
Triggers	The Admin/Player/Captain presses the "League Statistics" button.
Assumption	A League exists.
Pre-conditions	A League exists.
Post-conditions	Nothing changes.

3.5.3 - Domain Object Model:

3.5.3.1 - Data dictionary:

Object Type	Variable/ Field Name	Field Label	Description	Data Type Size	size
Admin	Admin_ID	Admin ID	The administrator's ID.	INT	10
Admin	Admin_name	Name	The administrator's name.	VARCHAR	55
Admin	Admin_username	Usemame	The administrator's RecDawgs username.	VARCHAR	25
Admin	Admin_password	Password	The administrator's RecDawgs password.	VARCHAR	25
Player	Player_student_ID	Student ID	A player's student ID.	INT	10
Player	Player_name	Name	A player's name.	VARCHAR	55
Player	Player_username	Username	A player's RecDawgs username.	VARCHAR	25
Player	Player_password	Password	A player's RecDawgs password.	VARCHAR	25
Player	Player_college_major	College Major	A player's college major.	VARCHAR	55
Player	Player_email_address	Email Address	A player's email address.	VARCHAR	55
Player	Player_address	Address	A player's residential address.	VARCHAR	255
Player	Player_isCaptain	Status	This field indicates whether or not the player is a captain	BOOLEAN	
Venue	Venue_name	Venue name	A venue's name.	VARCHAR	55
Venue	Venue_address	Venue address	A venue's address.	VARCHAR	255
Venue	Venue_isIndoor	Indoor/Outdoor	This field indicates whether or not the venue is indoor.	BOOLEAN	- 8
League	League name	League name	A league's name.	VARCHAR	25
Leagne	League_min_num_team	Minimum number of teams	The minimum number of teams in a league.	IN	25
Leagne	League_max_num_team	Maximum number of teams	The maximum number of teams in a league.	INT	25
Leagne	League_min_num_members	Minimum number of team members	League_min_num_members Minimum number of team members The minimum number of team members in a league.	IN	20
Leagne	League_max_num_members	Maximum number of team members	League_max_num_members Maximum number of team members The maximum number of team members in a league.	INT	25
Leagne	League_rules	League rules	The match rules for a league.	VARCHAR 65,535	55,535
Leagne	League_isIndoor	Indoor/Outdoor	This field indicates whether or not a league is played indoors or outdoors. BOOLEAN	BOOLEAN.	
Team	Team_id	Team ID	A team's ID.	INT	10
Team	Team_name	Team name	A team's name.	VARCHAR	55
Team		Sport	The type of sport a team plays.	VARCHAR	25
Team	Team_captain_id	Team captain	A team captain's ID.	INT	유
Team	Team_ranking	Ranking	A team's ranking.	INT	25
Statistics	Match score	Match Score	& score of a match.	IN	100

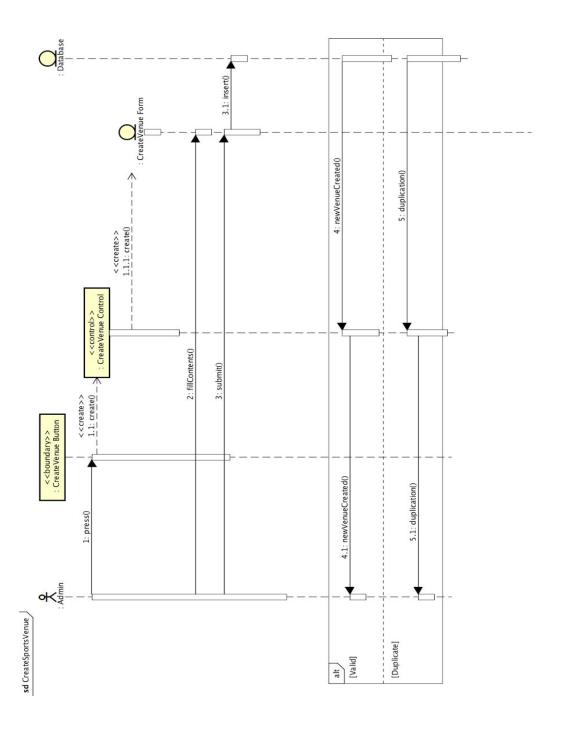
3.5.3.2 - Class Diagrams



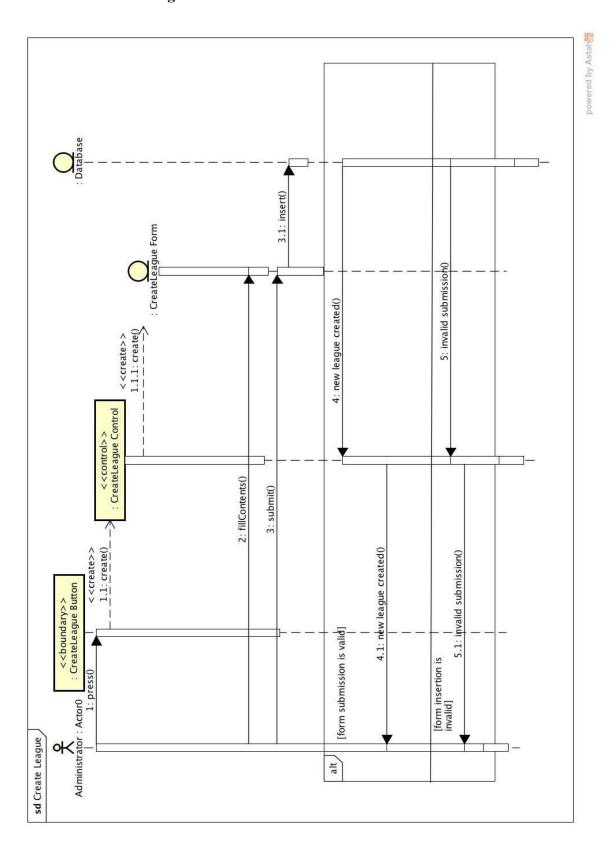
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3.5.4 - Dynamic Models

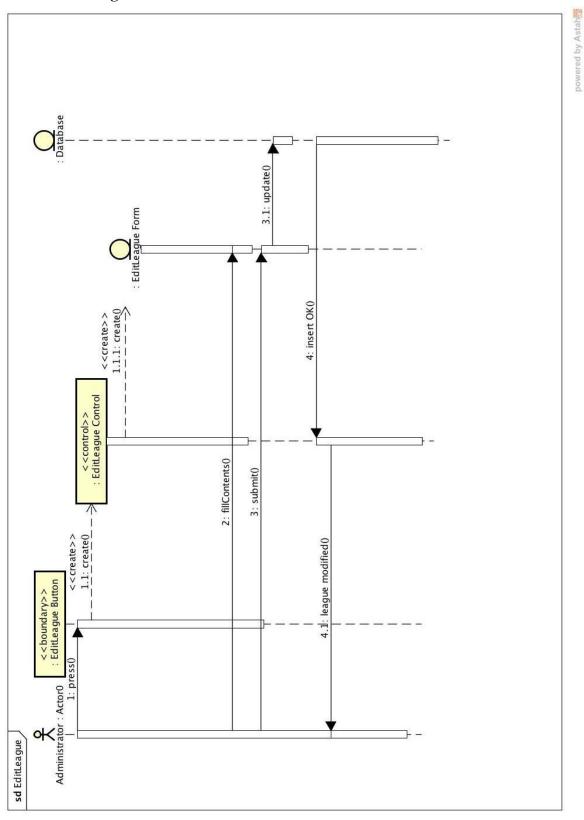
3.5.4.1 - CreateSportsVenue



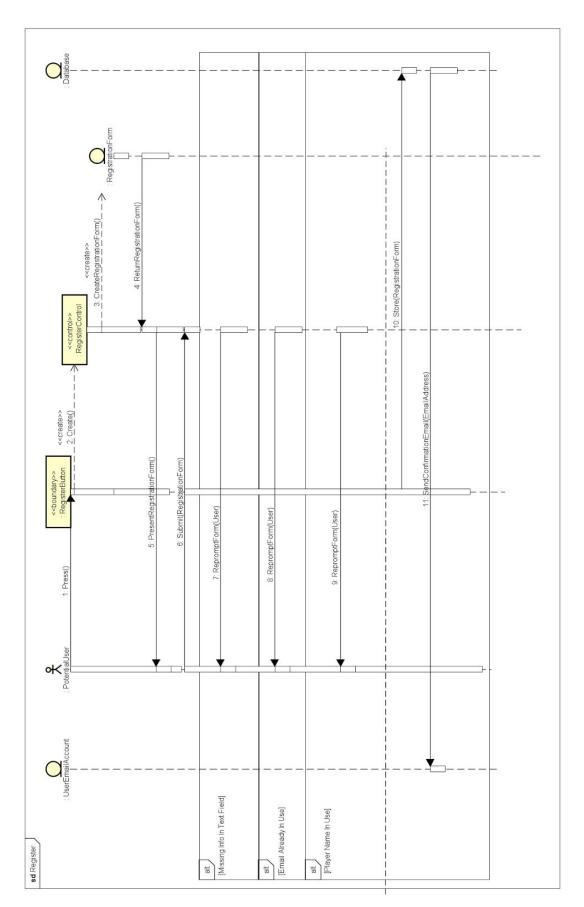
3.5.4.2 - CreateLeague



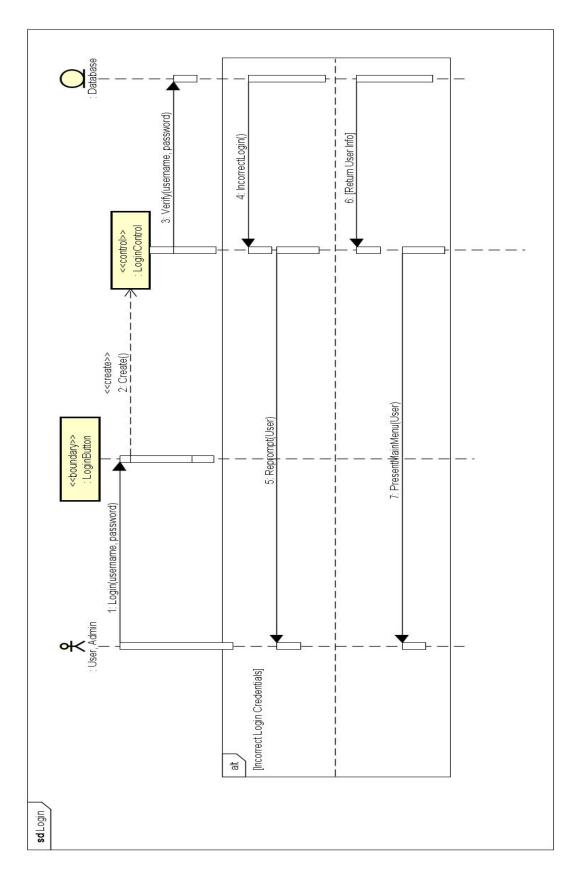
3.5.4.3 - EditLeague



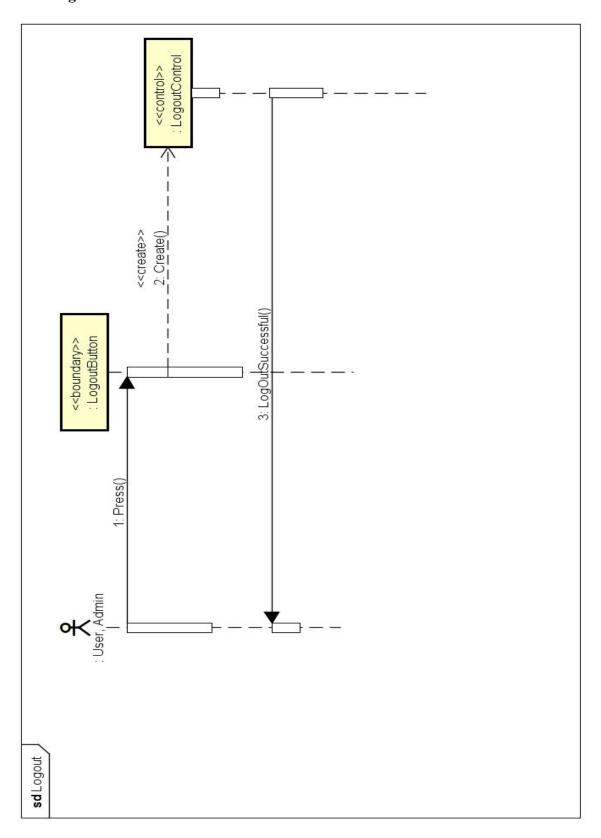
3.5.4.4 - Register



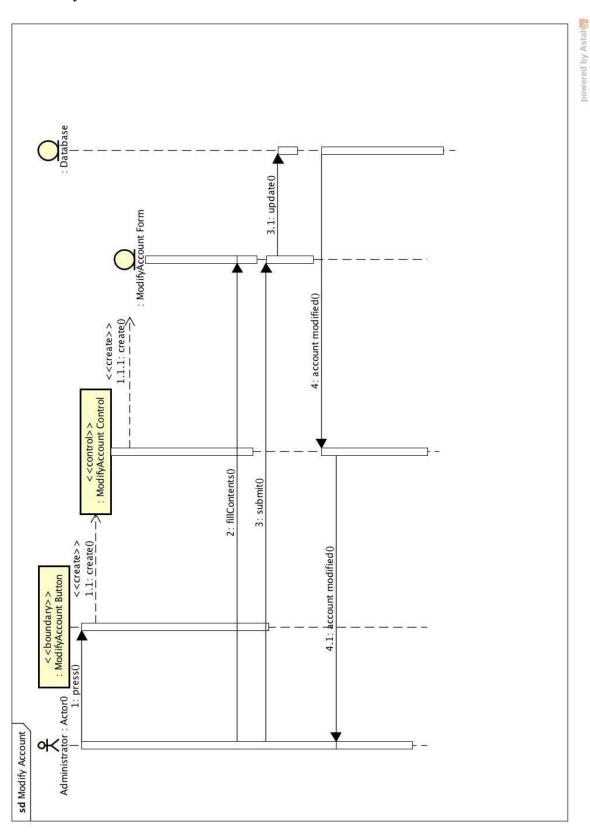
3.5.4.5 - Login



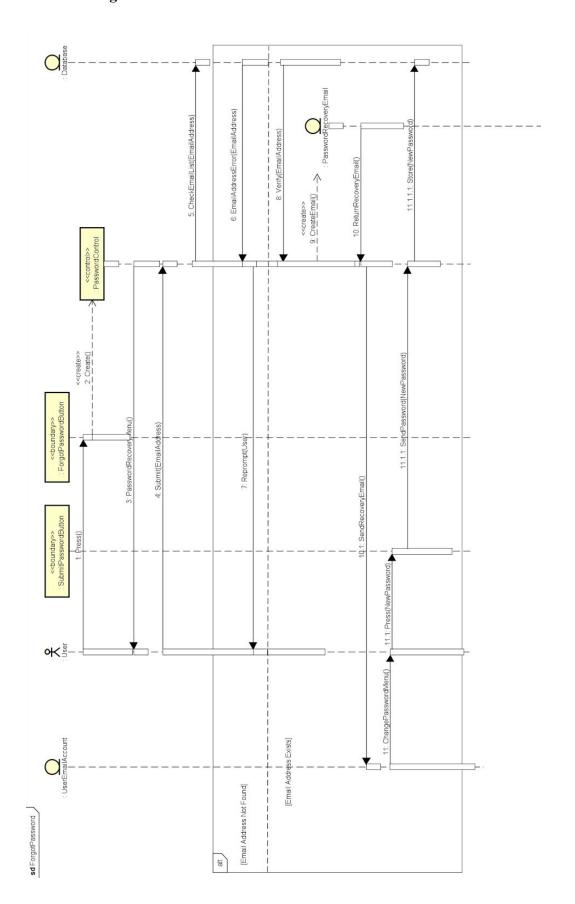
3.5.4.6 - Logout



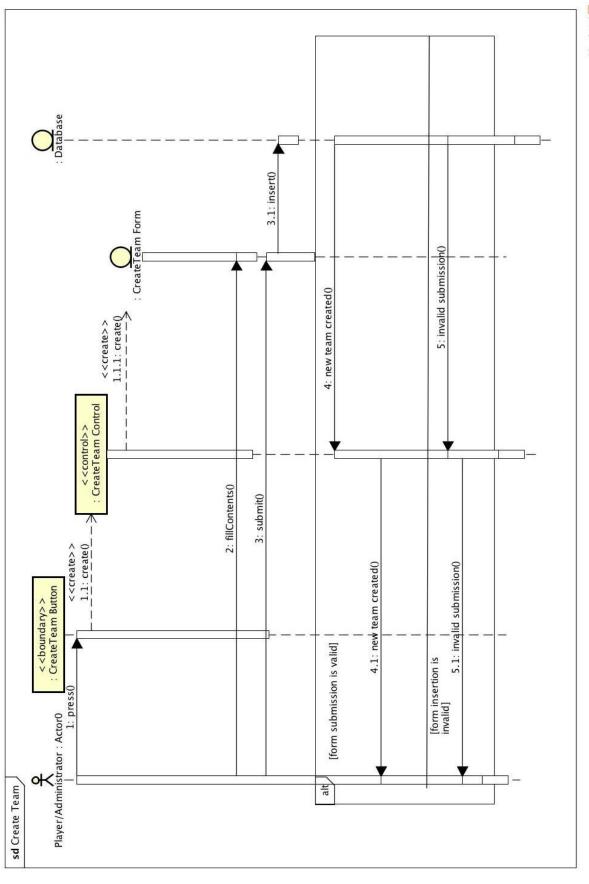
3.5.4.7 - Modify Account



3.5.4.8 - ForgotPassword

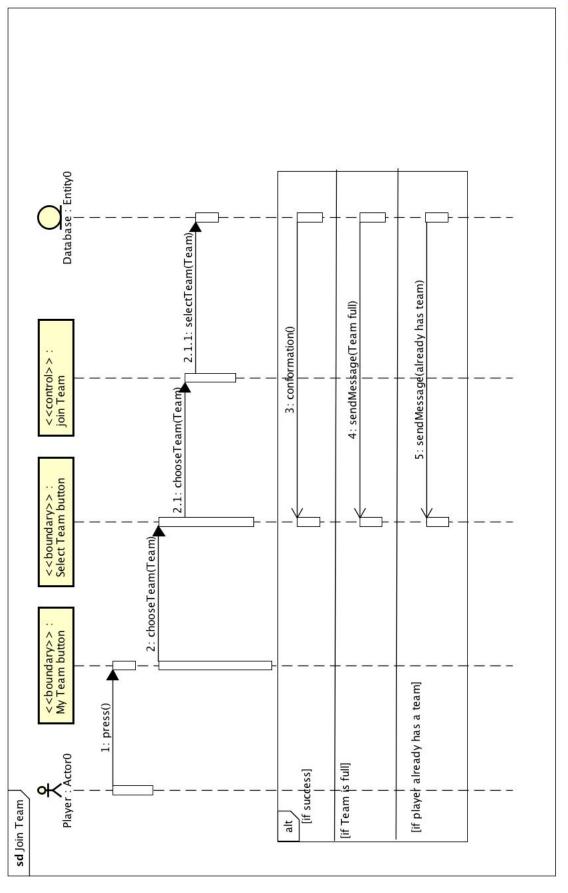


3.5.4.9 - CreateTeam



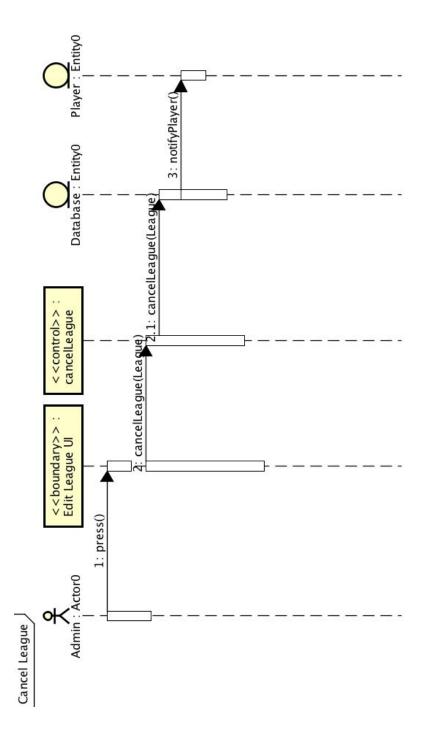
powered by Astah

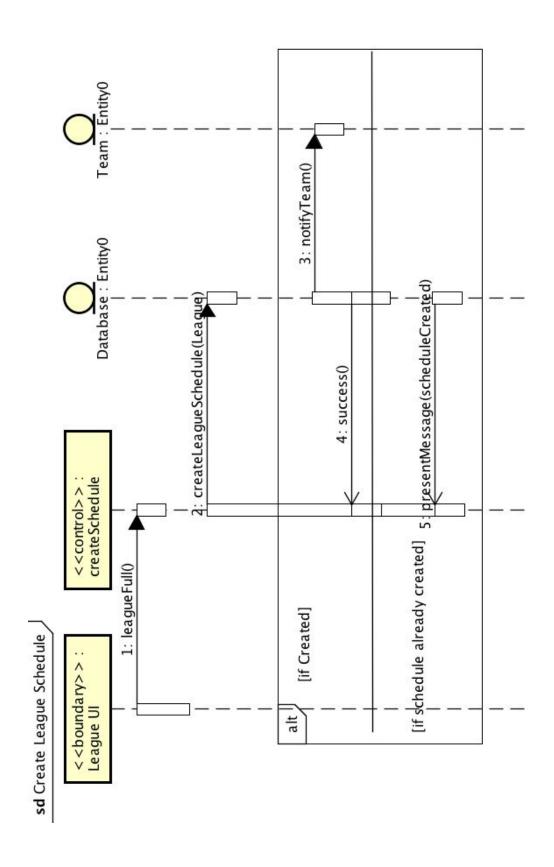
3.5.4.10 - JoinTeam



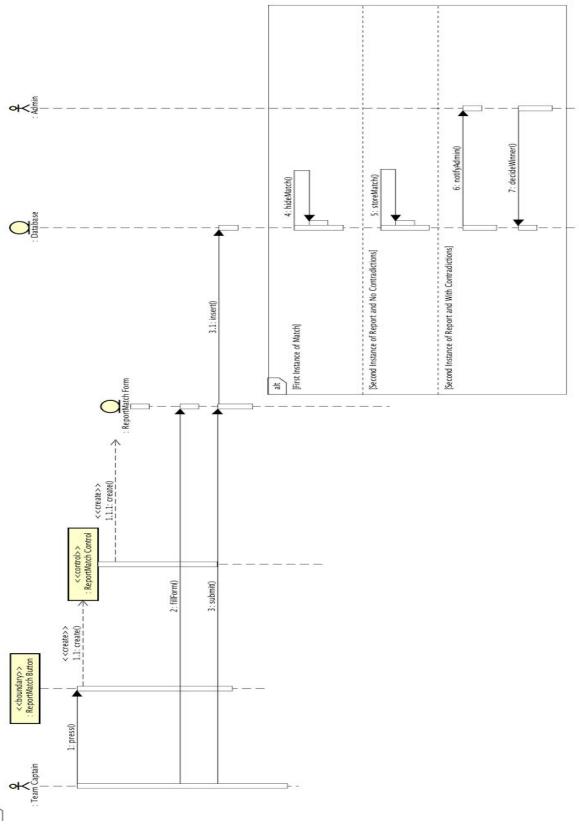
powered by Astah

3.5.4.11 - CancelLeague

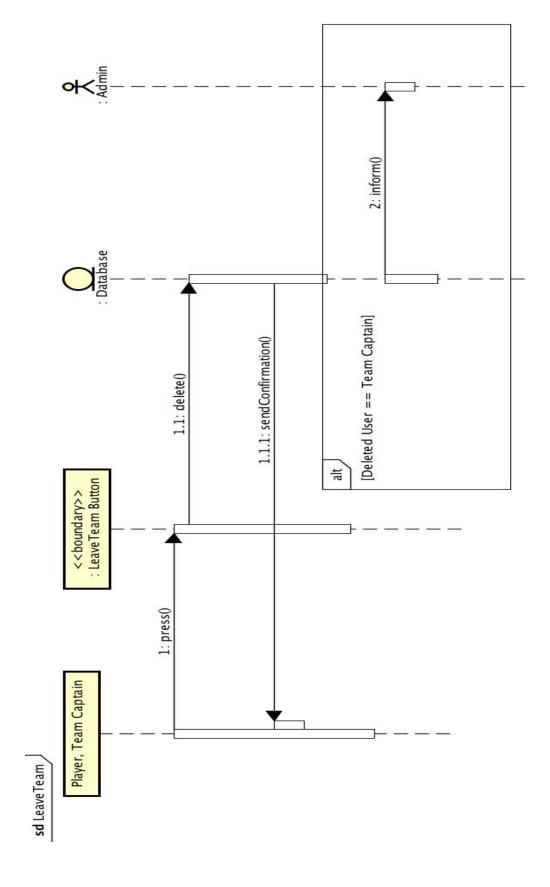




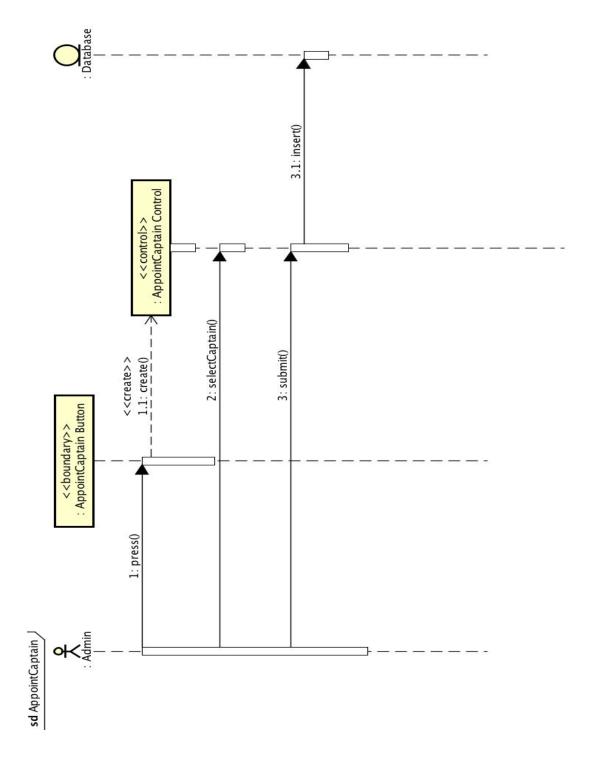
3.5.4.13 - **ReportMatch**



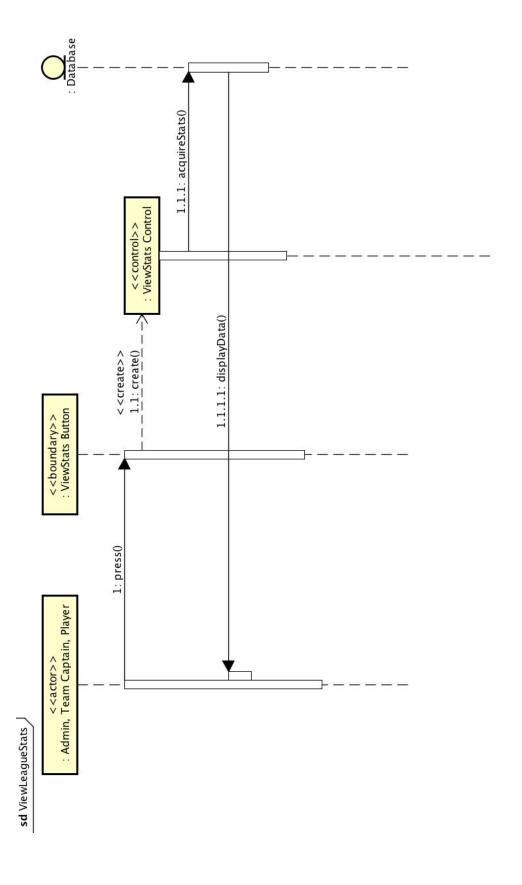
3.5.4.14 - LeaveTeam



3.5.4.15 - AppointCaptain

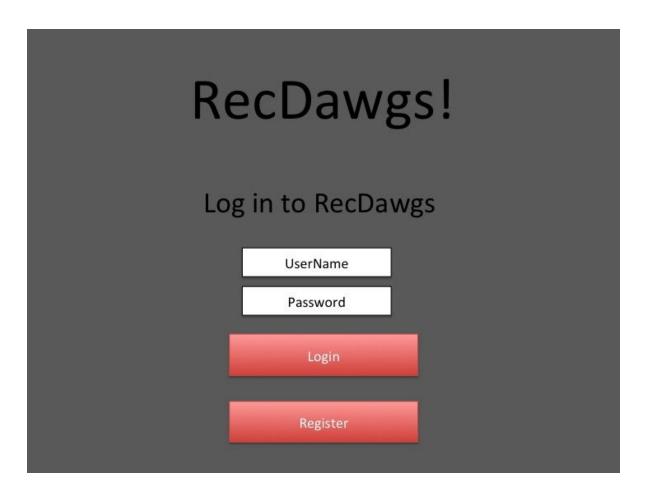


3.5.4.16 - ViewLeagueStats

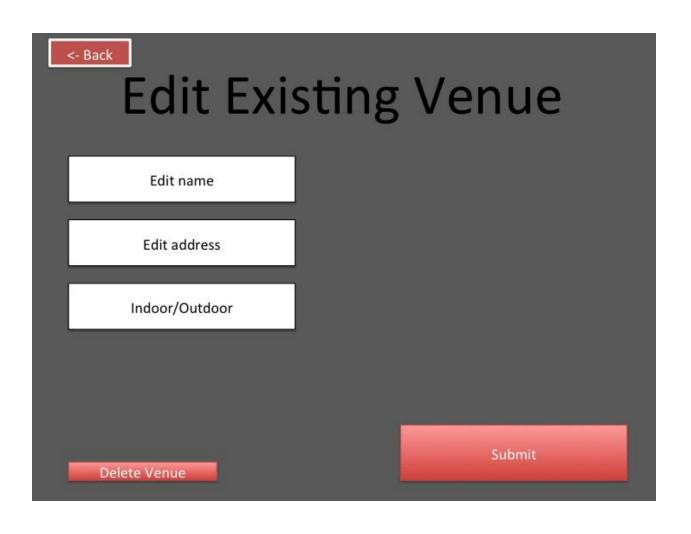


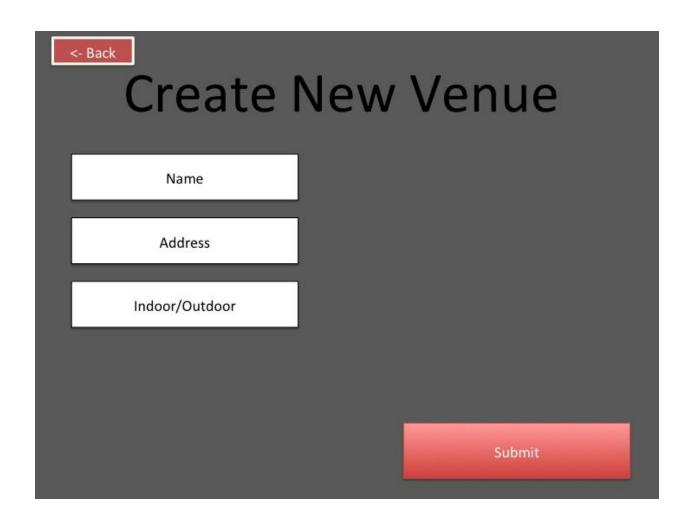
3.5.5 - User Interfaces

3.5.5.1 - User Interfaces: Administrator



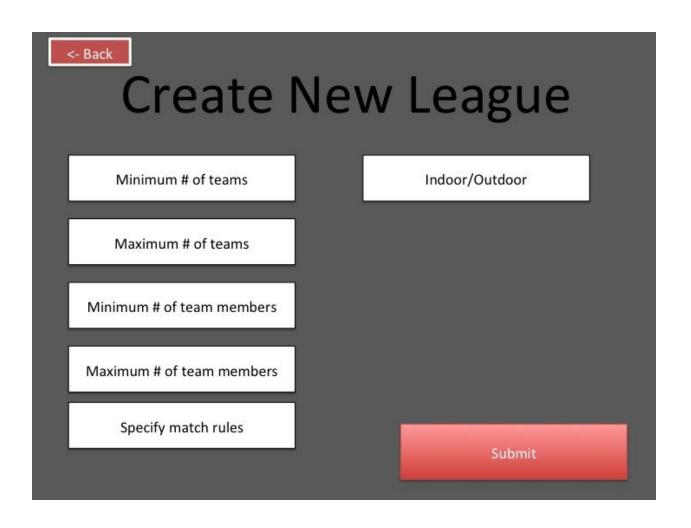


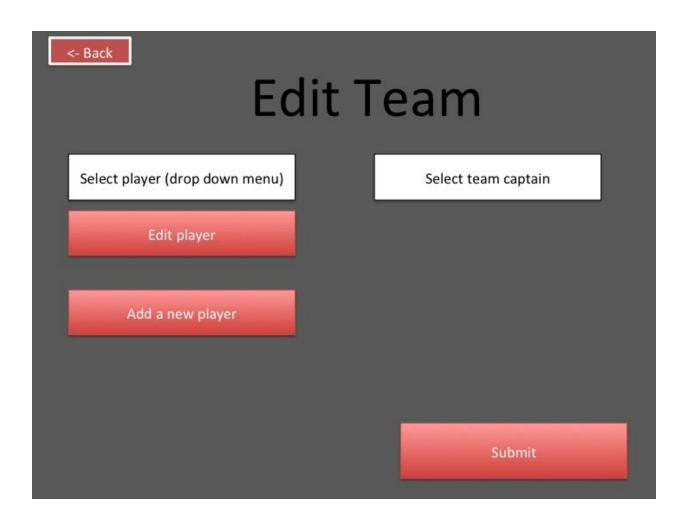


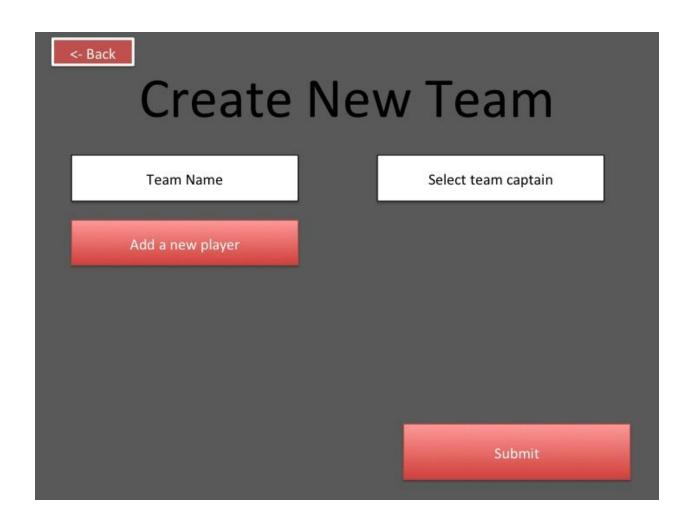


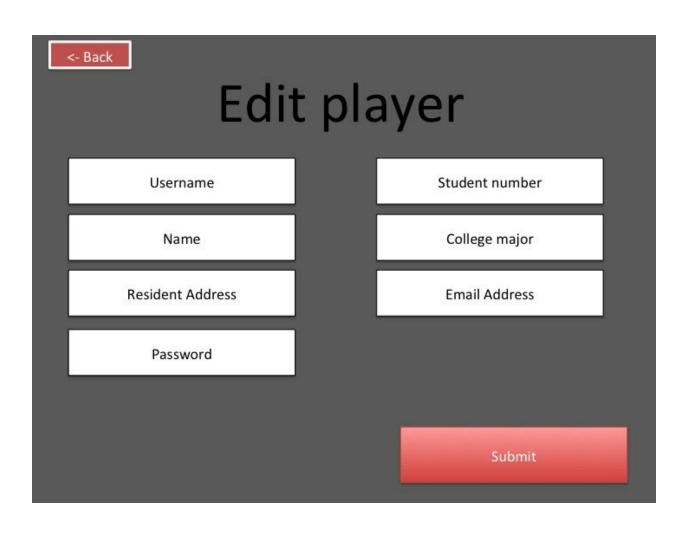


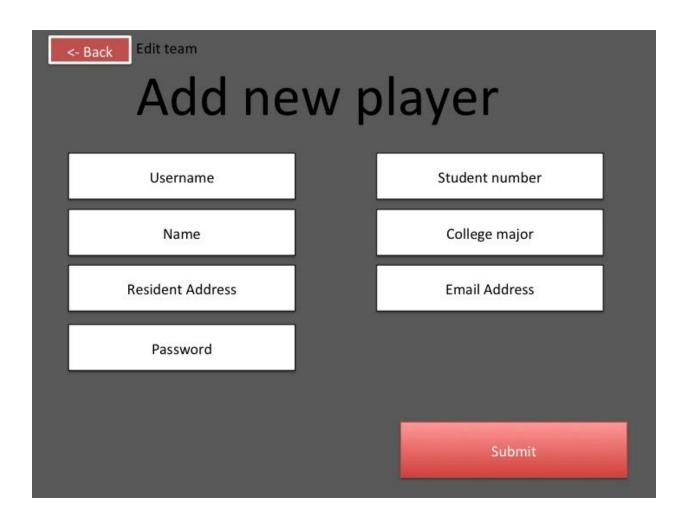


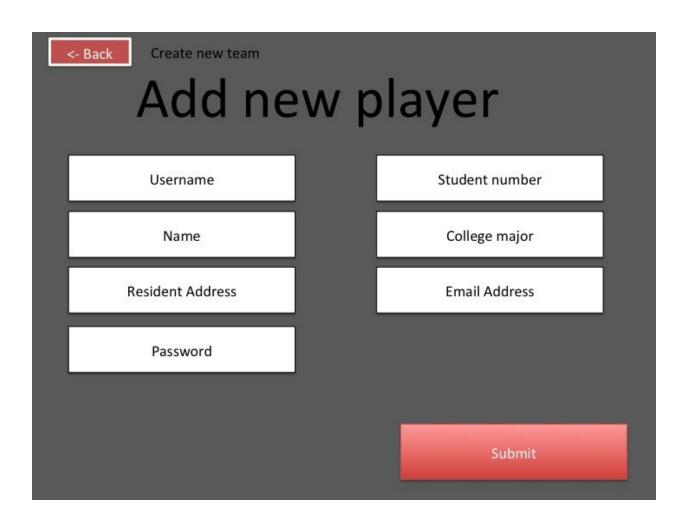




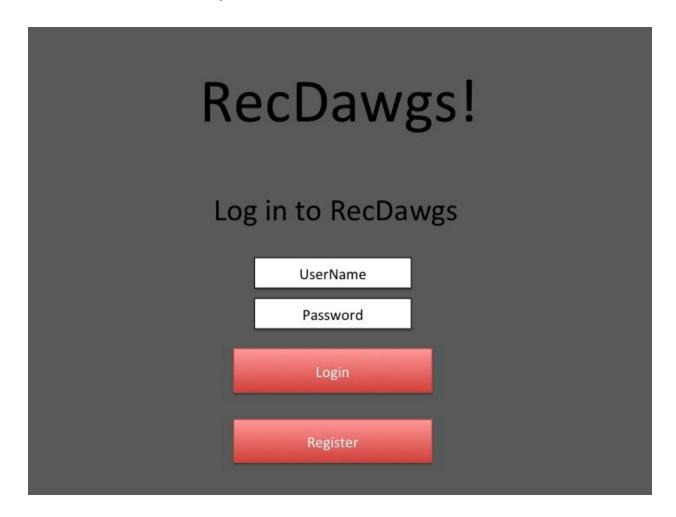


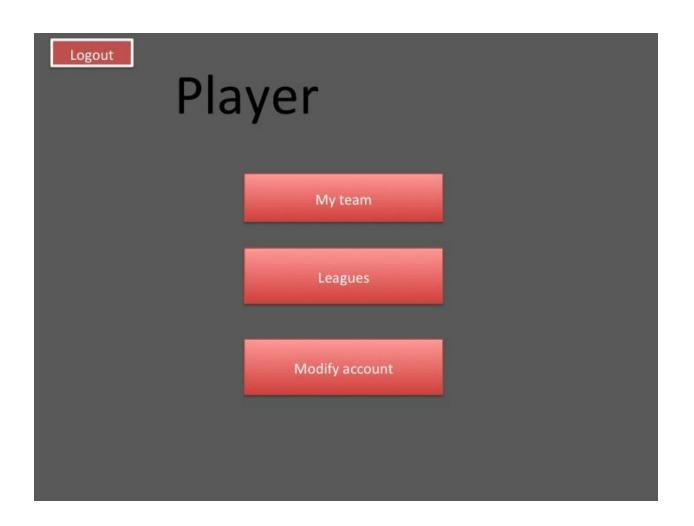


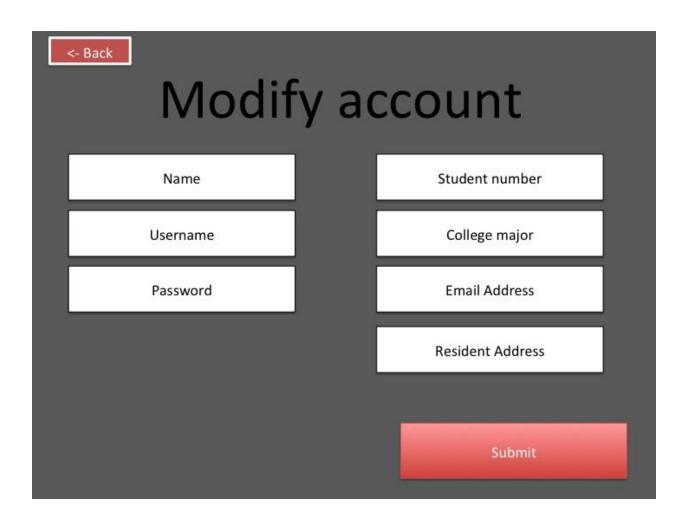


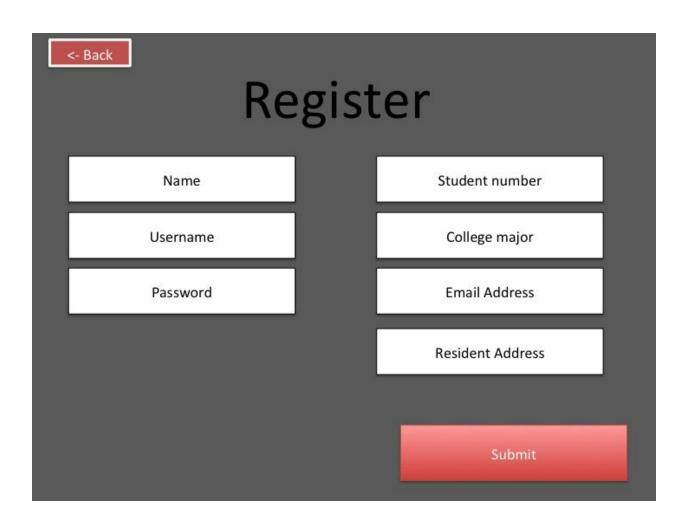


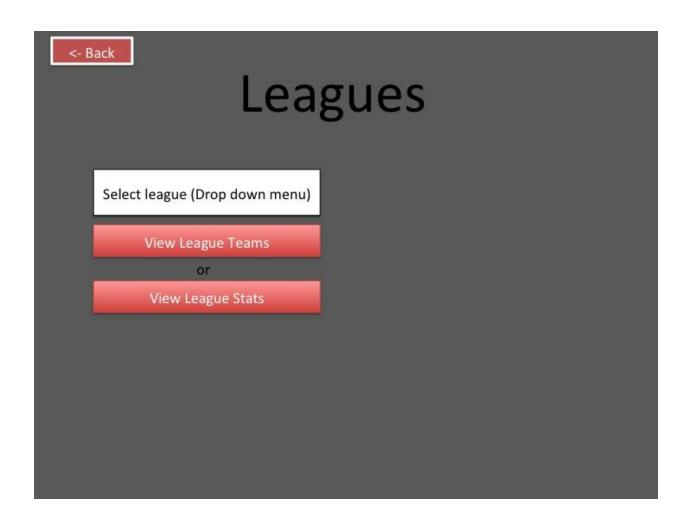
3.5.5.2 - User Interfaces: Player

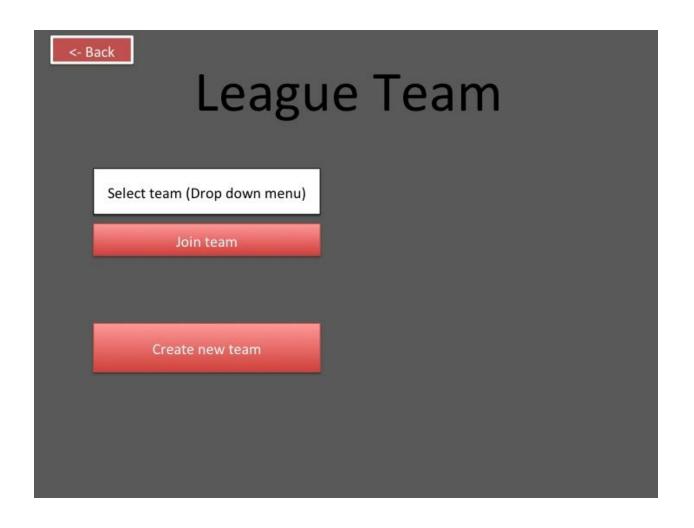




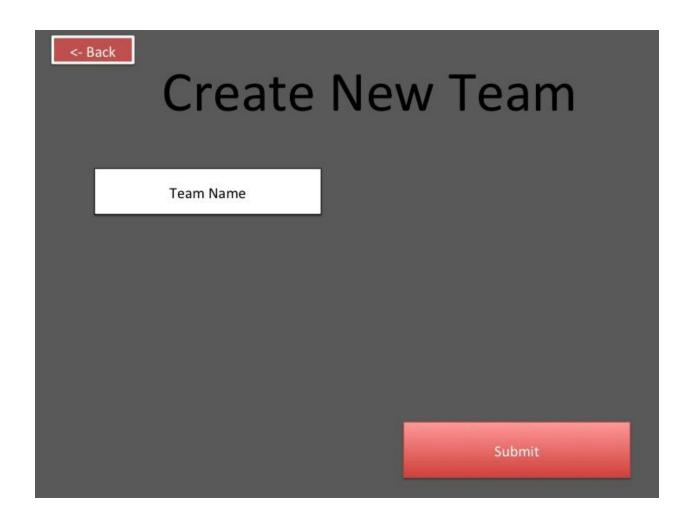


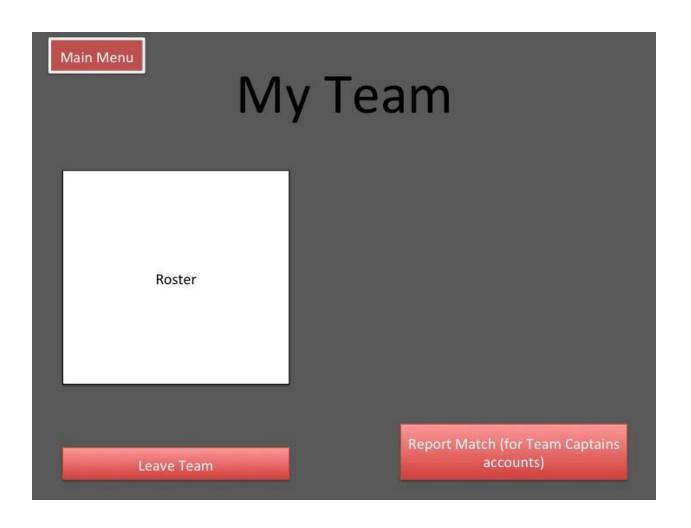














Section 4: Glossary

Word	Definition
Active league	A league in progress
Administrator	The person that manage RECDAWGS, Admins can create leagues/venues, appoint captains, etc.
League	A series of games, played in brackets, that allows the best team to win
Multi user access	A system that allows multiple users to access the system at the same time
Persistent data storage	Storing data and saving it so that it is not lost if the system goes down
Player	The default status of an account. This person have all the necessary options to play in a game.
RECDAWGS	A Recreational Sports Management Systems designed to support the management of several recreational sports leagues for a small college with minimal involvement of college staff.
Sports venues	Locations that the sport/sports will take place
System	This refers to the program, and what the program was created to accomplish/compute
Team Captain	The person that manage a team, Team captains have more power than players
User interface	The graphical interface presented to the user