

***Software Engineering
The 4Loop Team
Software Requirements Specification
(SRS) Document***

*Wesley Conley
Nick Hagood
Ross Norvell
Marshall Wildberger*

Radford University

<http://www.radford.edu/~team17>

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Wesley Conley			
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1. Introduction

1.1 Purpose of this document

The purpose of this document is to specify each requirement of the system in detail, while helping the client obtain a better understanding of the project. The intended audience for this document is Mr. Shane Atkins and the Radford University Club Soccer team.

1.2 Scope of this document

The requirements elicitation team includes each member of Team 4Loop: Wesley Conley, Nick Hagood, Ross Norvell, and Marshall Wildberger. These team members shall complete this project by writing project specifications, designing and testing the system, completing user documentation, and migrating the final system over to the client.

Users of this system shall include members and prospective members of the Radford University Club Soccer Team, and also members of the general student body. Other prospective users shall be the general public and as Dr. Tracy Lewis.

The constraints of this software development effort should include:

- Scheduling enough time to complete the requirements laid-out by the client
- Completing the necessary research to obtain the required skillsets to finish the project
- The available plugins and extensions of Joomla! for implementing the requirements

1.3 Overview

The result of the requirements elicitation shall be an updated, functional version of the current Radford University Club Soccer website. This system shall be deemed successful after the following specifications are completed:

1. Club Soccer website complies with the current Radford University color scheme
2. Old information on the Club Soccer website has been updated
3. Current team roster has been posted
4. Current team pictures have been included into a slideshow
5. An interactive calendar has been added for team events and game schedules
6. RSS feeds have been added for ESPN and/or other soccer teams' statistics
7. A team/club application form has been added to the website
8. The system has been successfully migrated from the shared team drive to the location of Club Soccer's current website
9. Club Soccer officers are able to manage the content management system without the assistance of technology staff
10. The final system meets the requirements laid-out by the Club Soccer team and qualifies as a challenging project under Dr. Tracy Lewis's standards

1.4 Business Context

The Radford University Club Soccer team is the organization sponsoring the development of this project. Club Soccer's main goal is to exploit the athletic talents of male students at Radford University, and to bolster participation in soccer matches with various universities across several states.

2. General Description

2.1 Product Functions

The system shall support an interactive user calendar for posting game schedules, events, and special activities. A team roster shall also be added to the new and interactive site, allowing the viewers to see the current members of the soccer team. A dynamic slideshow where the users can also upload photos of .jpg, .png, and .gif format of the attended events shall also be provided. Functionality shall be included by a subscription feed to ESPN and/or the soccer team's personal feed for viewers. In addition, added functionality shall be included by an online team application for those who may also enjoy participating in the club's activities. The last aspect that should improve this system over the current one, should be the entertainment value of the team statistics page for the audience and followers of Club Soccer. All of these features shall be combined with a new updated style and layout to make a productive and interactive system.

2.2 Similar System Information

The system's appearance shall be based on the Radford University theme, meaning that the prearranged color pallet shall be applied as well as a similarity to the layouts of other Radford University web pages. Currently, the Club Soccer web page is comparable with the James Madison University Club Soccer web page because it is extremely outdated. Style, theme, and color are also outdated, as well as the team roster, photos, and schedule. Research has revealed two well-designed systems, one at Virginia Tech and another at Liberty University. These two Club Soccer systems shall be used as a reference and model in implementing Radford University's new Club Soccer system.

2.3 User Characteristics

The Club Soccer president shall be the primary administrator of the system and other club members shall be allowed limited access at his discretion. The administrator shall be responsible for updating the system as needed, such as schedules, players, pictures, etc. The administrator does not need to be an expert with software systems or the application domain in order to maintain the system. General users of the system may be potential students that are looking to apply to the university or current students looking to join the soccer club.

2.4 User Problem Statement

The current system is outdated in all aspects. The schedule, team members, pictures, etc., are all from the year 2008, which is not appealing to future club prospects. Our goal is to create an updated version of the system in order to help promote Club Soccer. Also, we want the system to be viewed by family members, as well as friends, so that they may keep up-to-date with the team members' stats and records.

2.5 User Objectives

The system shall provide the user with updated schedules, photos, and roster. The system shall also include RSS feeds from various soccer feeds such as ESPN and Fox Sports. An item on the wish-list is the possibility of including a pay-pal account in order to support the club financially in the event of making it to the national soccer tournament.

2.6 General Constraints

The following constraints may pose potential problems:

- Compatibility of Cascading Style Sheets between various Internet browsers
- Current knowledge base of team members

The following constraints should not pose any major problems:

- Time constraints since project dates have been padded allowing time flexibility
- Joomla! since the system is platform independent

3. Functional Requirements

Criticality Scale: ← Very Low (1) – Low (2) – Medium (3) – High (4) – Very High (5) →

1. Very Low: Items that can be eliminated should serious system constraints encountered.

2. Low: Items that are extra functionalities that may be evaluated for possible elimination.

3. Medium: Items that are strongly desired by the users of the system.

4. High: Items which are required in the system in order for lower criticalities to function.

5. Very High: Items that are mission critical and that the system cannot function without.

1. The system shall be able to display the homepage.

1. Description

After being properly coded, the system shall be able to display a GUI of the RU Club Soccer Website.

2. Criticality

5

3. Technical issues

Pre-condition: website shall be properly coded.

Post-condition: the system shall properly display the club's homepage.

4. Risks

The system may not properly display the homepage.

5. Dependencies with other requirements

N/A

2. The system shall be able to display the team page.

1. Description

After displaying the team homepage, the system shall be able to display the team page when the team page link is clicked.

2. Criticality

5

3. Technical issues

Pre-condition: website shall be properly coded team home page must already be displayed.

Post-condition: the system shall properly display the team page.

4. Risks

The system may not properly display the team page.

5. Dependencies with other requirements

N/A

3. The system shall be able to display the application page.

1. Description

After displaying the team homepage, the system shall be able to display the application page when the application link is clicked.

2. Criticality

5

3. Technical issues

Pre-condition: website shall be properly coded and team homepage must already be displayed.

Post-condition: the system shall properly display the application page.

4. Risks

The system may not properly display the application page.

5. **Dependencies with other requirements**
N/A
4. **The system shall be able to validate a user's username.**
 1. **Description**
After the user has entered their login credentials, the system shall validate whether or not the user has entered the correct username to accompany the password.
 2. **Criticality**
5
 3. **Technical issues**
Pre-condition: website shall be properly coded and homepage has been displayed.
Post-condition: the system shall accept or reject the user's username and be prompted to reenter their credentials.
 4. **Risks**
The system may accept the username with the wrong password.
 5. **Dependencies with other requirements**
1, 5
5. **The system shall be able to validate the user's password.**
 1. **Description**
After the user has entered his login credentials, the system shall validate whether or not the user has entered the correct password to accompany the username.
 2. **Criticality**
5
 3. **Technical issues**
Pre-condition: website shall be properly coded and homepage has been displayed.
Post-condition: the system shall accept or reject the user's password and be prompted to reenter their credentials.
 4. **Risks**
The system may accept the password with the wrong username.
 5. **Dependencies with other requirements**
1, 4
6. **The administrator shall be able to log in to the system.**
 1. **Description**
After accessing the club soccer homepage an administrator shall be able to log in to the system.
 2. **Criticality**
5
 3. **Technical issues**
Pre-condition: website shall be properly coded and login field shall be provided.
Post-condition: the administrator shall have full access to all system privileges.
 4. **Risks**
The administrator may enter incorrect username/password combination. The system may fail to authenticate the log in, in which case the administrator shall be prompted again to log in. The administrator may forget his password in which case the system shall provide a password recovery option.
 5. **Dependencies with other requirements**
1, 4, 5
7. **The administrator shall be able to log out of the system.**
 1. **Description**
After properly logging into the system, the administrator shall be able to log back out.
 2. **Criticality**
5

3. **Technical issues**
 Pre-condition: the administrator has properly logged into the system.
 Post-condition: the administrator shall no longer have access to system privileges.
4. **Risks**
 The system may fail to properly log the administrator out.
5. **Dependencies with other requirements**
 1, 4, 5
8. **The administrator shall be able to modify the team schedule.**
 1. **Description**
 After properly logging into the system, the administrator shall be able to modify the current team schedule.
 2. **Criticality**
5
 3. **Technical issues**
 Pre-condition: website shall be properly coded and a posted schedule shall already exist. Also administrator shall be properly logged in.
 Post-condition: the current team schedule shall reflect the administrator's modifications.
 4. **Risks**
 The system may not reflect the administrators modifications.
 5. **Dependencies with other requirements**
 1, 2, 4, 5
9. **The administrator shall be able to modify the team roster.**
 1. **Description**
 After properly logging into the system, the administrator shall be able to modify the current team roster.
 2. **Criticality**
5
 3. **Technical issues**
 Pre-condition: website shall be properly coded and a posted roster shall already exist.
 Post-condition: the current team roster shall reflect the administrator's modifications.
 4. **Risks**
 The system may not reflect the administrators modifications.
 5. **Dependencies with other requirements**
 1, 2, 4, 5
10. **The administrator shall be able to modify the current team calendar.**
 1. **Description**
 After accessing the club soccer homepage an administrator shall be able to modify the events scheduled in the team calendar.
 2. **Criticality**
5
 3. **Technical issues**
 Pre-condition: website shall be properly coded and calendar shall already exist.
 Post-condition: the calendar shall reflect the administrator's modification to the calendar.
 4. **Risks**
 The system may not properly display the modifications to the calendar.
 5. **Dependencies with other requirements**
 1, 2, 4, 5
11. **The administrator shall be able to add a new club member's information.**

1. **Description**
After accessing the club soccer homepage an administrator shall be able to add a new club member's personal information.
 2. **Criticality**
5
 3. **Technical issues**
Pre-condition: website shall be properly coded and old member's profiles must be deleted.
Post-condition: the system shall properly add the new team member's information.
 4. **Risks**
The system may not properly add all of the new club member's information.
 5. **Dependencies with other requirements**
1, 2, 4, 5
12. **The administrator shall be able to delete an old club member's personal information.**
1. **Description**
After accessing the club soccer homepage an administrator shall be able delete an old club member's personal information.
 2. **Criticality**
5
 3. **Technical issues**
Pre-condition: website shall be properly coded and the member's personal information is already in the system.
Post-condition: the system shall properly delete the old team member's information.
 4. **Risks**
The system may not properly remove all of the information.
 5. **Dependencies with other requirements**
1, 2, 4, 5, 14
13. **The administrator shall be able to update personal player stats.**
1. **Description**
After the administrator has logged in and viewed the homepage and player profile, he shall be able to update the player's individual statistics after each game is played.
 2. **Criticality**
5
 3. **Technical issues**
Pre-condition: website shall be properly coded, homepage has been displayed, team page has been displayed, and stats must be available.
Post-condition: the system shall show updates of the individual player's stats.
 4. **Risks**
The system may not properly display and update the player's stats.
 5. **Dependencies with other requirements**
1, 2, 4, 5, 14
14. **The administrator shall be able to update personal player description**
1. **Description**
After the administrator has logged in and viewed the homepage and player profile, he shall be able to update the player's personal description.
 2. **Criticality**
5

3. **Technical issues**
 Pre-condition: website shall be properly coded, homepage has been displayed, team page has been displayed, and description section must be available.
 Post-condition: the system shall show update of the player's description.
4. **Risks**
 The system may not properly display the players updated personal description.
5. **Dependencies with other requirements**
 1, 2, 4, 5, 14
15. **The administrator shall be able to add a personal player's photo.**
 1. **Description**
 After the administrator has logged in and viewed the homepage and player profile, he shall be able to add a player's individual photo.
 2. **Criticality**
5
 3. **Technical issues**
 Pre-condition: website shall be properly coded, homepage has been displayed, team page has been displayed, and photo must not exist.
 Post-condition: the system shall properly add and display the player's photo.
 4. **Risks**
 The system may not properly add and display the player's photo.
 5. **Dependencies with other requirements**
 1, 2, 4, 5, 14
16. **The administrator shall be able to delete a personal player's photo.**
 1. **Description**
 After the administrator has logged in and viewed the homepage and player profile, he shall be able to delete the player's individual photo.
 2. **Criticality**
5
 3. **Technical issues**
 Pre-condition: website shall be properly coded, homepage has been displayed, team page has been displayed, and photo must already exist.
 Post-condition: the system shall properly delete the players photo.
 4. **Risks**
 The system may not properly delete the players photo.
 5. **Dependencies with other requirements**
 1, 2, 4, 5, 14, 18
17. **The club member shall be able to log in to the system.**
 1. **Description**
 After accessing the club soccer homepage a club member shall be able to log in to the system.
 2. **Criticality**
5
 3. **Technical issues**
 Pre-condition: website shall be properly coded and login field shall be provided.
 Post-condition: the club member shall have limited access to system privileges.
 4. **Risks**
 The club member may enter incorrect username/password combination. The system may fail to authenticate the log in, in which case the club member shall be prompted again to log in. The club member may forget his password in which case the system shall provide a password recovery option.
 5. **Dependencies with other requirements**
 1, 4, 5

18. The club member shall be able to log out of the system.

1. Description

After properly logging into the system, the club member shall be able to log back out.

2. Criticality

5

3. Technical issues

Pre-condition: the club member has properly logged into the system.

Post-condition: the club member shall no longer have access to system privileges.

4. Risks

The system may fail to properly log the club member out.

5. Dependencies with other requirements

1, 4, 5

19. The club member shall be able to add his new information.

1. Description

After accessing the club soccer homepage a club member shall be able to add new personal information.

2. Criticality

5

3. Technical issues

Pre-condition: website shall be properly coded and old member's profiles must be deleted.

Post-condition: the system shall properly add the new team member's information.

4. Risks

The system may not properly add all of the new club member's information.

5. Dependencies with other requirements

1, 2, 4, 5

20. The club member shall be able to delete his old personal information.

1. Description

After accessing the club soccer homepage a club member shall be able delete his old personal information.

2. Criticality

5

3. Technical issues

Pre-condition: website shall be properly coded and the member's personal information is already in the system.

Post-condition: the system shall properly delete the old team member's information.

4. Risks

The system may not properly remove all of the information.

5. Dependencies with other requirements

1, 2, 4, 5

21. The club member shall be able to add his individual photo to his player profile.

1. Description

After accessing the club soccer homepage and profile a club member shall be able to add a new personal photo to his profile.

2. Criticality

5

3. Technical issues

Pre-condition: website shall be properly coded and member's previous photo must

be deleted.

Post-condition: the system shall properly add the team member's new photo.

4. **Risks**

The system may not properly add the new player photo.

5. **Dependencies with other requirements**

1, 2, 4, 5, 22

22. **The club member shall be able to delete individual photo from player profile.**

1. **Description**

After accessing the club soccer homepage and profile a club member shall be able to delete his photo from his profile.

2. **Criticality**

5

3. **Technical issues**

Pre-condition: website shall be properly coded and the member's photo must already be visible on his profile.

Post-condition: the system shall properly delete the team member's photo.

4. **Risks**

The system may not delete the photo.

5. **Dependencies with other requirements**

1, 2, 4, 5, 22, 24

23. **The club member shall be able to update his own personal player stats.**

1. **Description**

After the club member has logged in and viewed the homepage and player profile, he shall be able to update his own individual statistics after each game is played.

2. **Criticality**

5

3. **Technical issues**

Pre-condition: website shall be properly coded, homepage has been displayed, team page has been displayed, and stats must be available.

Post-condition: the system shall show updates of the individual player's stats.

4. **Risks**

The system may not properly display and update the player's stats.

5. **Dependencies with other requirements**

1, 2, 4, 5, 22

24. **The club member shall be able to update his own personal player description**

1. **Description**

After the club member has logged in and viewed the homepage and player profile, he shall be able to update his own personal description.

2. **Criticality**

5

3. **Technical issues**

Pre-condition: website shall be properly coded, homepage has been displayed, team page has been displayed, and description section must be available.

Post-condition: the system shall show update of the players description.

4. **Risks**

The system may not properly display the players updated personal description.

5. **Dependencies with other requirements**

1, 2, 4, 5, 22

25. **The general user shall be able to view the homepage.**

1. **Description**

When accessing the Club Soccer website, a general user shall be able to see links, posts, subscriptions, and have the ability to comment.

2. **Criticality**

5

3. **Technical issues**

Pre-condition: website shall be properly coded.

Post-condition: gain access to other webpages on the website.

4. **Risks**

Error in the coding process and broken navigation links between webpages. To avoid these risks we shall adhere to strict design standards and shall test the site thoroughly before releasing it to the public.

5. **Dependencies with other requirements**

1

26. **The general user shall be able to view the team page.**

1. **Description**

When accessing the Club Soccer website, a general user shall be able to see the team page, including the team roster and profiles, photos, and calendar.

2. **Criticality**

5

3. **Technical issues**

Pre-condition: website shall be properly coded.

Post-condition: team roster, profiles, photos, and calendar shall be available for the general user to view.

4. **Risks**

Error in the coding process and broken navigation links between web pages. Problems with the database could prevent roster, profiles, pictures, and/or calendar from displaying correctly. To avoid these risks we shall adhere to strict design standards and shall test the site thoroughly before releasing it to the public.

5. **Dependencies with other requirements**

2

27. **The general user shall be able to view the application page.**

1. **Description**

When accessing the Club Soccer website, a general user shall be able to see the application page and submit an application for membership or to be added to the mailing list.

2. **Criticality**

5

3. **Technical issues**

Pre-condition: website shall be properly coded.

Post-condition: the signup forms for either joining the mailing list or to join the team shall be available for the general user to view.

4. **Risks**

Error in the coding process and broken navigation links between web pages. Problems with the database could prevent the user from being added to the mailing list or cause the application to fail upon submission. To avoid these risks we shall adhere to strict design standards and shall test the site thoroughly before releasing it to the public.

5. **Dependencies with other requirements**

3

28. **The administrator shall be able to update team statistics.**

1. **Description**

After accessing the club soccer homepage an administrator shall be able to modify the team statistics.

2. **Criticality**
4
 3. **Technical issues**
Pre-condition: website shall be properly coded and team statistics shall already exist.
Post-condition: the modified stats shall reflect the administrator's modification of the team statistics.
 4. **Risks**
The system may not properly display the modified team statistics.
 5. **Dependencies with other requirements**
1, 2, 4, 5
29. **The general user shall be able to view RSS feeds on the home page.**
1. **Description**
When accessing the Club Soccer homepage, a general user shall be able to see the RSS feeds from ESPN.
 2. **Criticality**
3
 3. **Technical issues**
Pre-condition: homepage shall be working correctly.
Post-condition: the system shall grab RSS feeds and embed them on the home page.
 4. **Risks**
Error in the coding process and failure of the feeds to be properly embedded on the homepage. To avoid risks we shall adhere to strict design standards and shall test the feeds thoroughly before releasing it to the public.
 5. **Dependencies with other requirements**
1
30. **The general user shall be able to comment on homepage posts.**
1. **Description**
When accessing the Club Soccer website, a general user shall be able to comment on existing posts, but not create their own posts.
 2. **Criticality**
3
 3. **Technical issues**
Pre-condition: the homepage shall be working correctly and posts already exist.
Post-condition: the comment appears attached to the existing post.
 4. **Risks**
Error in the coding process and comment fails to appear attached to post.
 5. **Dependencies with other requirements**
1
31. **The administrator shall be able to add slideshow photos.**
1. **Description**
After accessing the club soccer homepage an administrator shall be able add photos to the slideshow.
 2. **Criticality**
2
 3. **Technical issues**
Pre-condition: website shall be properly coded and previous photos in the slideshow shall be properly deleted.
Post-condition: the slideshow shall reflect the administrator's addition of the photos.

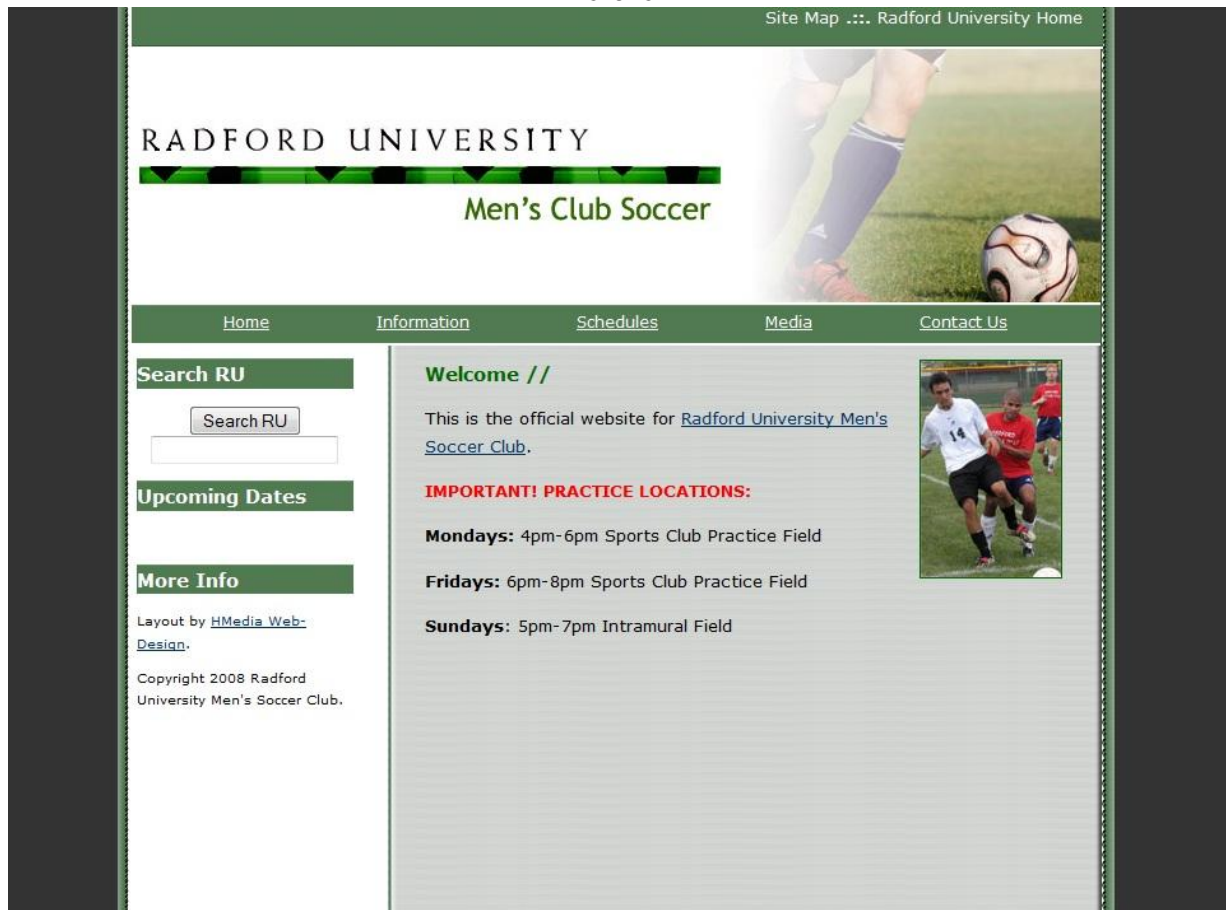
4. **Risks**
The system may not properly add the photos to the slideshow.
 5. **Dependencies with other requirements**
1, 2, 4, 5
32. **The administrator shall be able to delete slideshow photos.**
1. **Description**
After accessing the club soccer homepage an administrator shall be able to delete photos in the current slideshow.
 2. **Criticality**
2
 3. **Technical issues**
Pre-condition: website shall be properly coded and photos shall already exist in the slideshow.
Post-condition: the slideshow shall reflect the administrator's deletion of the photos.
 4. **Risks**
The system may not properly remove the photos from the slideshow.
 5. **Dependencies with other requirements**
1, 2, 4, 5, 10

4. Interface Requirements

4.1 User Interfaces

- **4.1.1 GUI**
For the general user or viewer of the Radford University Club Soccer website, the interface shall be very similar to the current Radford University theme. The club's site shall have menu items with updates on the team's status, which shall include statistics, roster, and scores. In addition, there shall be an upcoming events menu where dedicated followers and fans may checkup on the progress of the Club Soccer team. The last addition to the website shall be an RSS feed in which statistics on other soccer teams shall be viewable. This shall enable the viewers to see how professional teams are playing in comparison to the Radford University Club Soccer team. The projected site interface shall follow along the trends on the following page:

Before



After



- **4.1.2 CLI**
Outside of command line ftp, the server shall not specifically provide any type of command line interface.
- **4.1.3 API**
N/A
- **4.1.4 Diagnostics or ROM**
The system shall use the in-line error reporting system that Joomla! implements by default. If a user (administrator) would like to view the errors, if any, they may do so through the use of the default control panel.

4.2 Hardware Interfaces

Users of the system shall need a functioning computer with mouse, keyboard, and any other type of input a general computer user may require.

4.3 Communications Interfaces

Users of the system shall need a modem or any active connection to the Internet.

4.4 Software Interfaces

Users of the system shall need an up-to-date Internet browser to view the website.

5. Performance Requirements

Users of the system shall have one or more of the following Internet browsers:

- Firefox 4.0 & up.
- Internet Explorer 8 & up.
- Safari 5.03 & up.
- Google Chrome 10.0 & up.

The system shall require a Radford University server with adequate hard drive and memory space available.

6. Other Non-Functional Attributes

6.1 Security

The system's security shall be ensured by Joomla! The administrator shall be able to login and modify the content on the various web pages, as well as change the layouts of content areas as desired. General users shall not have access to modify content within the system; however, under certain circumstances, general users may add comments to pre-existing posts.

6.2 Binary Compatibility

The system shall be binary compatible between Windows, Mac, and Linux operating systems. This compatibility shall be ensured by the Joomla! software. Also, the system shall be accessible from any computer with Internet connectivity and at least one of the following web browsers: Microsoft Internet Explorer, Google Chrome, Safari, and Mozilla Firefox.

6.3 Reliability

The system shall be accessible at any time, with the exception of technology infrastructure failure. This requirement shall be provided for by the Radford University technology systems.

6.4 Maintainability

The system shall be easily maintainable by the administrator through the use of Joomla!'s user interface. Also, other programmers shall be capable of easily modifying and updating code by using the documentation provided with the system.

6.5 Portability

The system shall be accessible to any user with a working Internet connection and up-to-date web browser.

6.6 Extensibility

The system shall be extensible through the use of Joomla!'s software. Code may be modified, styles may be changed, and content may be added all through the use of Joomla!'s interface.

6.7 Reusability

The system shall be well-documented in order for new administrators to change content as needed. Also, the system shall be designed in such a way that administrators may modify content without having to modify code.

6.8 Application Affinity/Compatibility

The system shall be compatible with any of the following Internet browsers: Microsoft Internet Explorer, Google Chrome, Safari, and Mozilla Firefox.

6.9 Resource Utilization

The system shall be accessible from any type of computer with an active Internet connection. The system shall require an active server with adequate hard drive space and available memory.

6.10 Serviceability

The system shall be easily modified by referencing the documentation that shall be provided.

7. Operational Scenarios

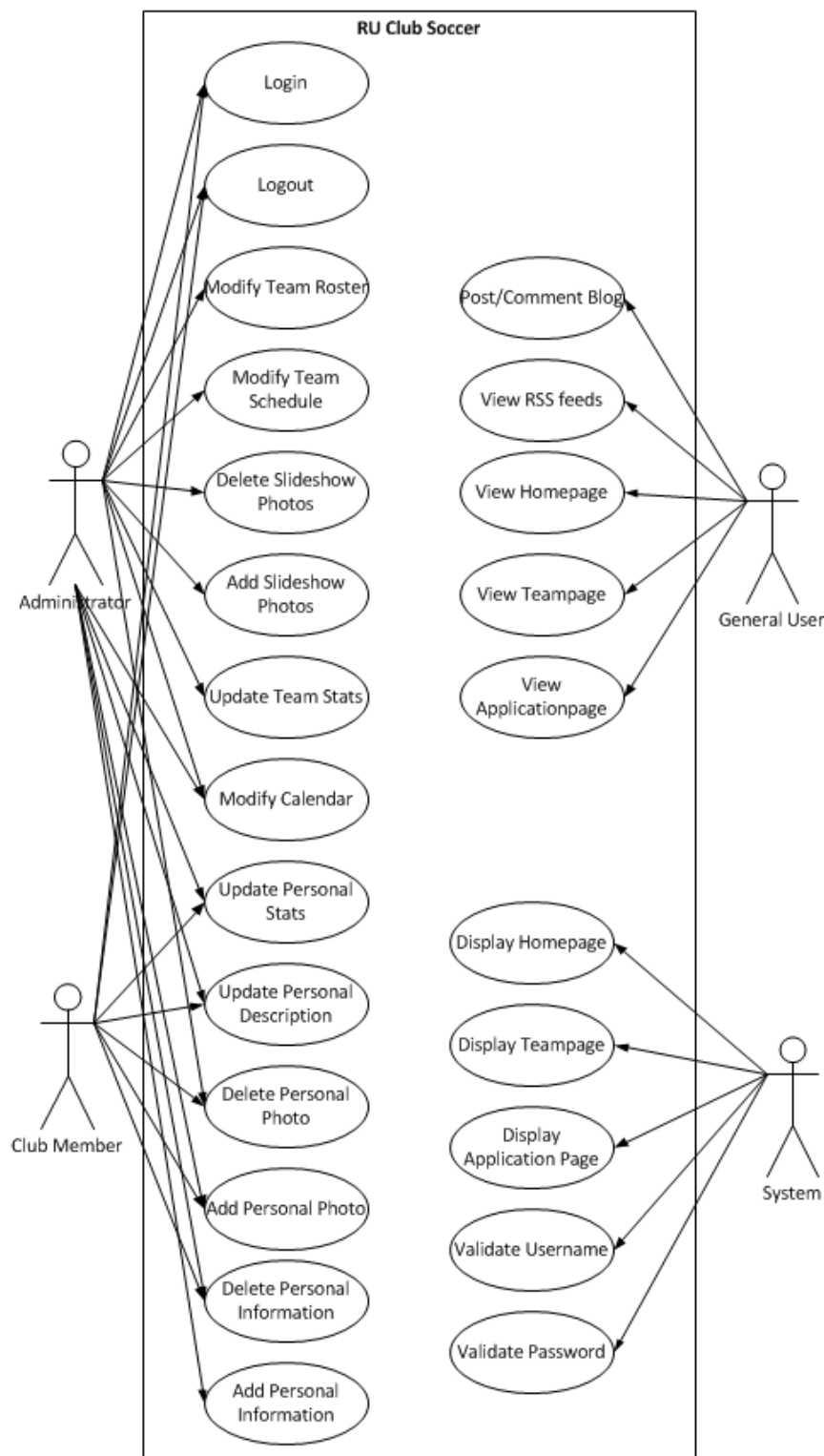
1) In a completely successful scenario, the user shall be able to access the Radford University Club Soccer team's website via one of the Internet browsers previously mentioned in the Performance & Requirements section of this document. The system's homepage shall contain links to events, roster, & statistics. In addition, there shall be an RSS feed that provides the views of the site with up-to-date news on the bigger soccer teams (to be picked by the administrator). The events page shall display the future, current, and past activities of the Club Soccer team for the user's convenience. The roster shall have a list of players actively participating on the team. Each player shall have their own "about me" page which shall describe their interests, position on the team, and any other information, such as generic personal information that may appear in Facebook or Twitter profiles that they wish to share. Lastly, the statistics page shall give the Radford University Club Soccer team's statistics in previous games they have participated.

2) In the best case scenario all users shall be able to access the website and view the previously mentioned pages. In addition, all of the members of the Radford University Club Soccer team shall be able to submit content either on to their particular pages or on to the main page. Also, the administrators of the site shall be able to post content anywhere where needed. Users shall also be able to post, but in limited amounts through the comment feature.

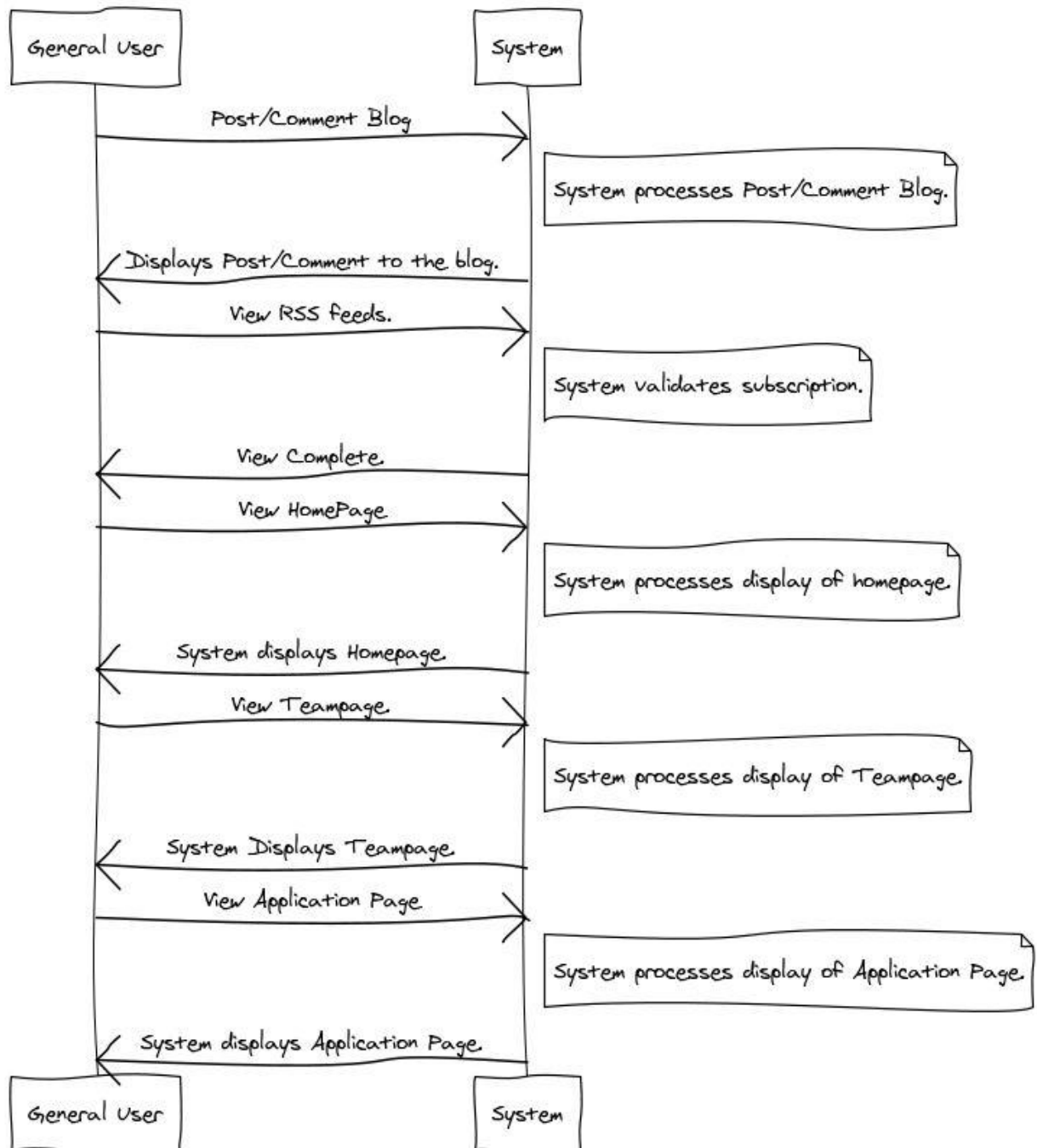
3) As problematic issues are concerned, there are few things that could go wrong with the system. The system could have corrupted data, in which the page would render the 404 error. In order to prevent this error, the system shall be provided with a Dropbox account that shall be synchronized with the web files. This shall allow the Radford University Club Soccer team to recover any altered or deleted files if need be.

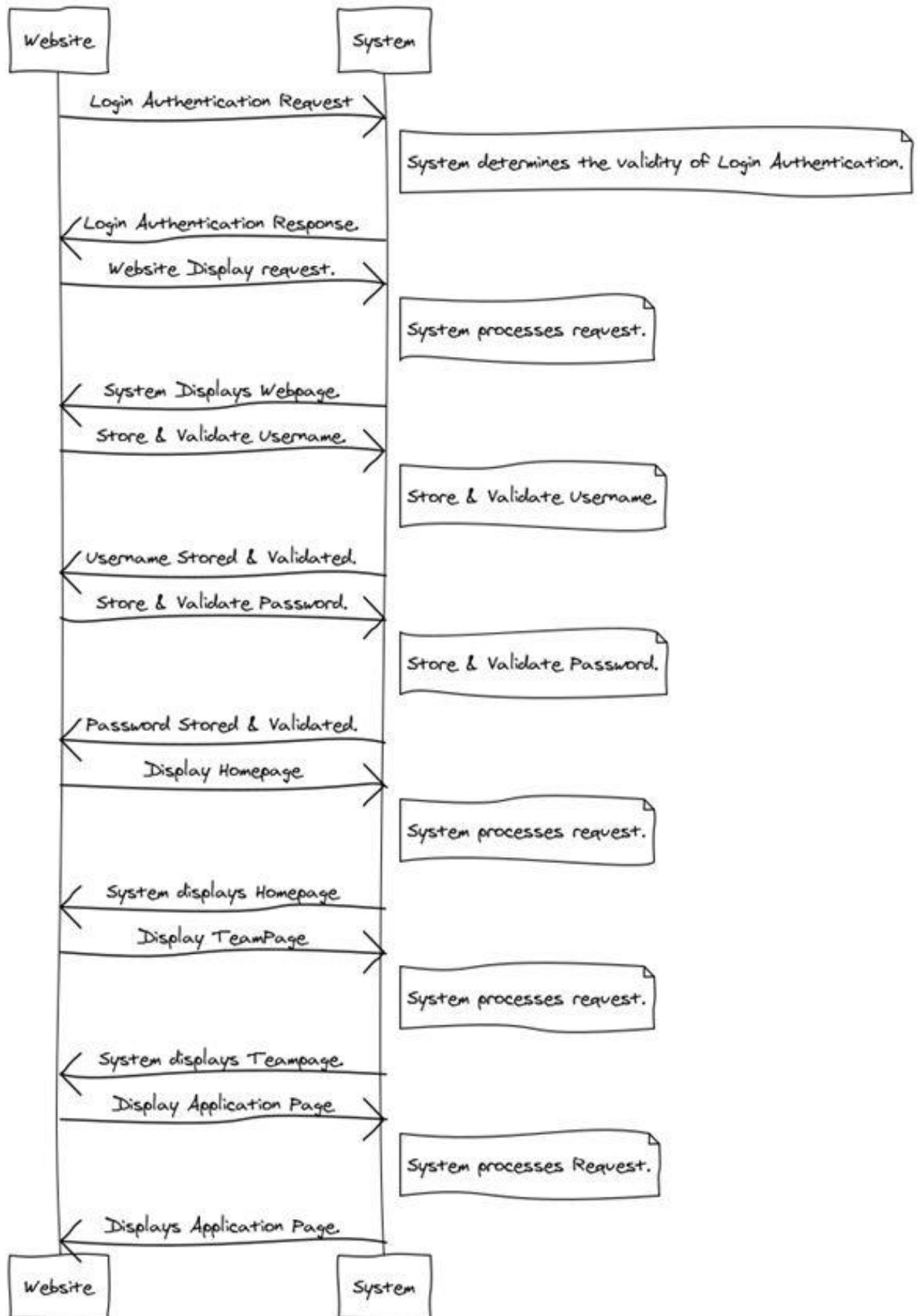
8. Preliminary Use Case Models and Sequence Diagrams

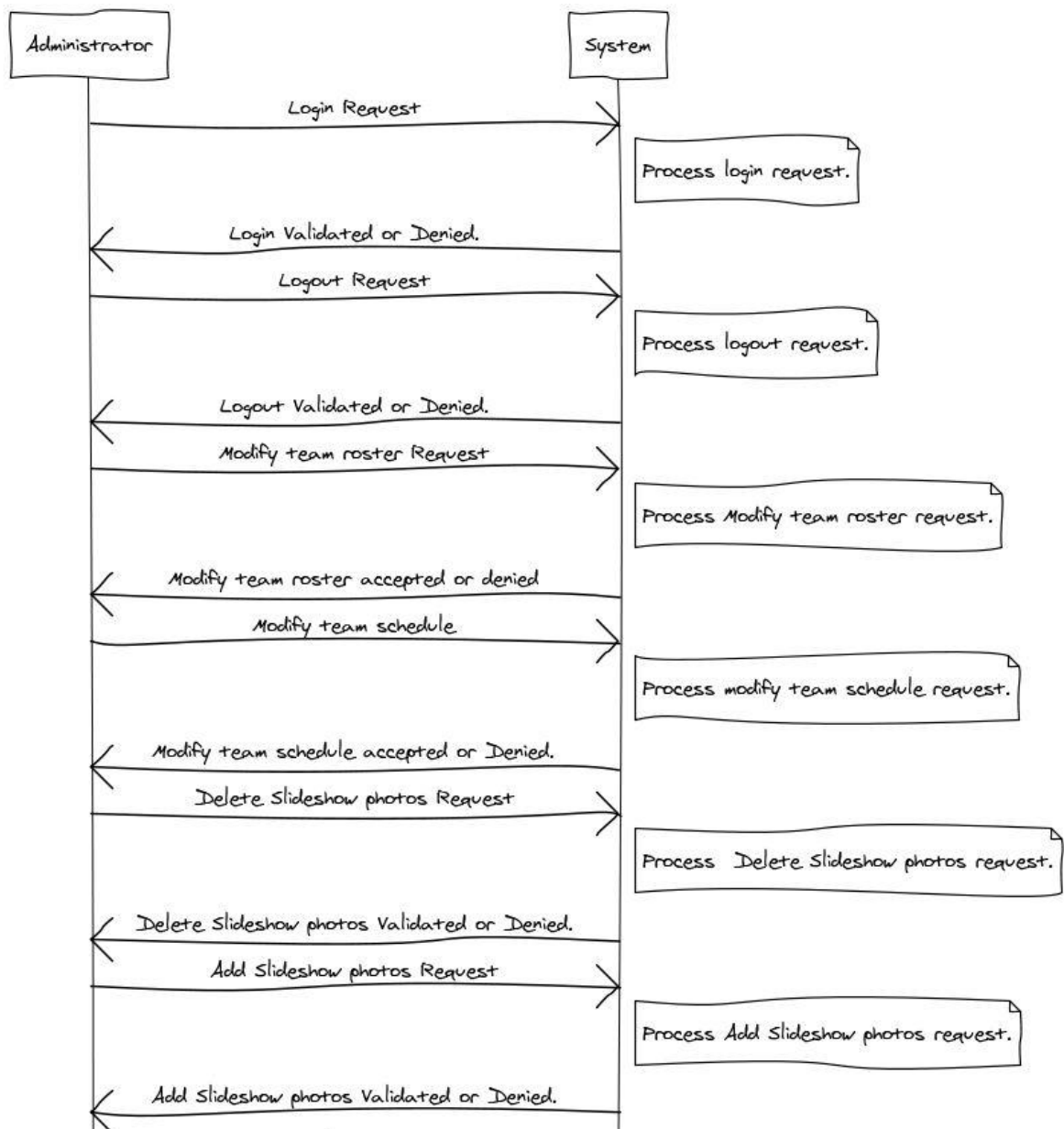
8.1 Use Case Model

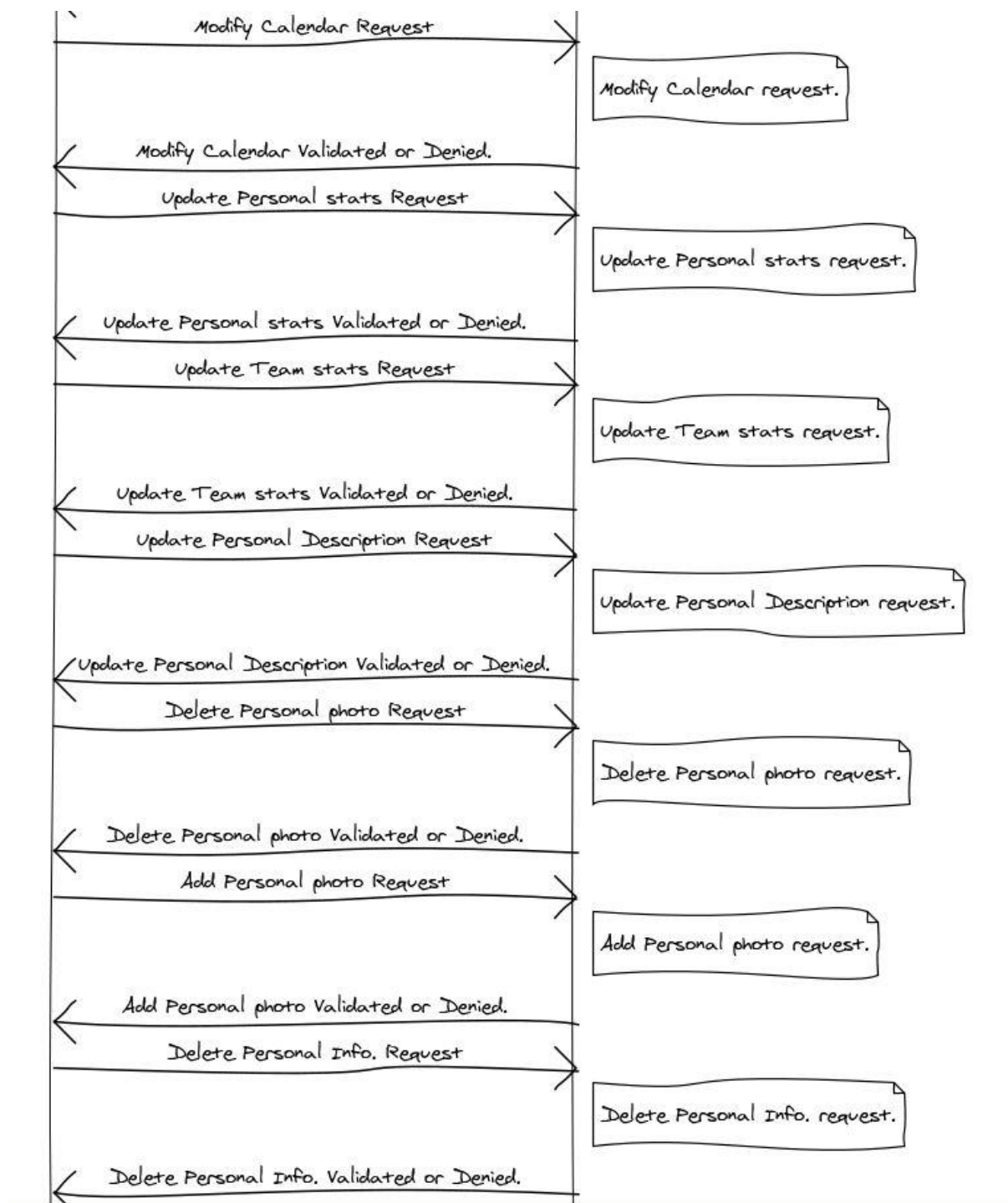


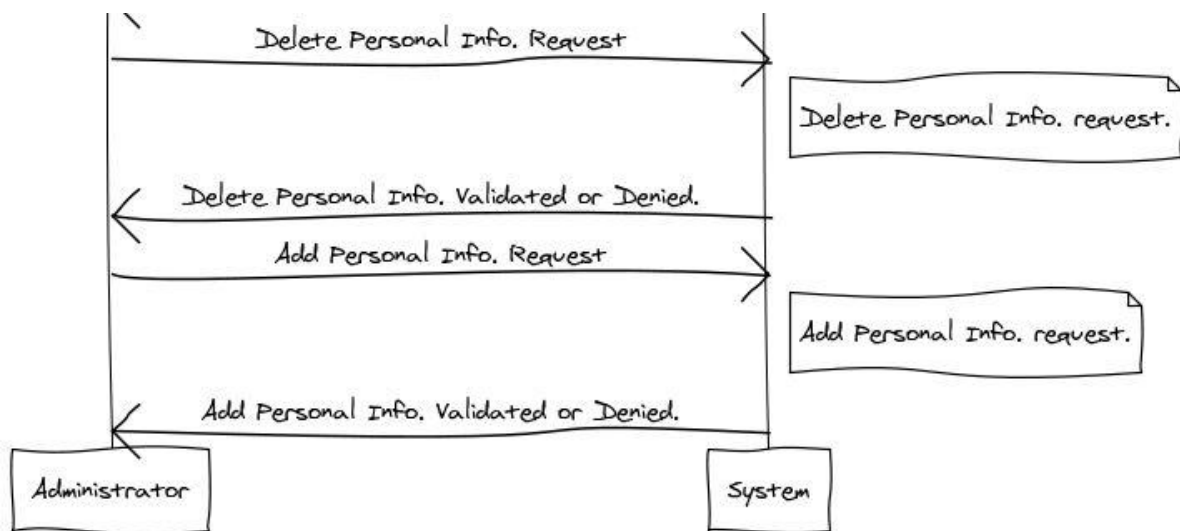
8.2 Sequence Diagrams

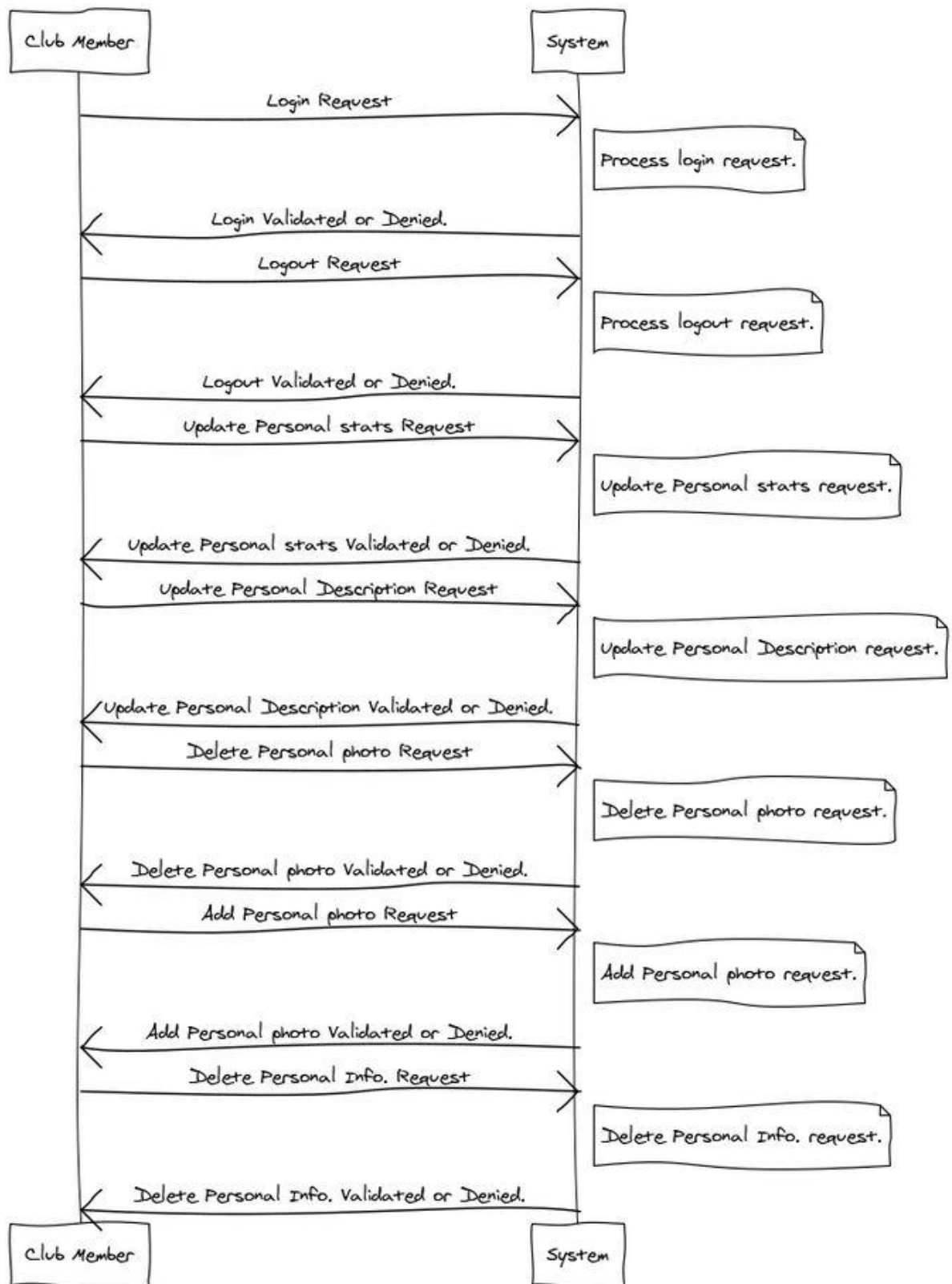












9. Updated Schedule

Task	Task Name	Duration	Start	Finish	Predecessors	Resource Names
	 SOFTENG_TEAM17	66 days	Tue 1/25/11	Tue 4/26/11		
	 Initial Team Meeting	3.5 days	Tue 1/25/11	Fri 1/28/11		
	Choose Meeting Time	0.5 days	Tue 1/25/11	Tue 1/25/11		Wes Conley
	Choose Team Name	0.5 days	Tue 1/25/11	Tue 1/25/11	2	Marshall Wildberger
	Develop Team Poster	1 day	Wed 1/26/11	Thu 1/27/11	3	Ross Norvell
	Develop Initial Website	1 day	Thu 1/27/11	Fri 1/28/11	4	Nick Hagood
	 Contact Client	3 days	Fri 1/28/11	Tue 2/1/11	1	
	Contact Dean of Students Office	3 days	Thu 1/27/11	Mon 1/31/11		Marshall Wildberger
	Contact SGA	1 day	Mon 1/31/11	Mon 1/31/11		Marshall Wildberger
	Contact Volleyball Club	1 day	Tue 2/1/11	Tue 2/1/11		Marshall Wildberger
	Contact Basketball Club	1 day	Tue 2/1/11	Tue 2/1/11		Marshall Wildberger
	Contact RU Soccer Club	1 day	Tue 2/1/11	Tue 2/1/11		Marshall Wildberger
	 Planning	14 days	Mon 1/31/11	Thu 2/17/11	6	
	Project Planning Document	11 days	Thu 2/3/11	Thu 2/17/11		TEAM
	Project Planning Overview, Scope, Mini	1 day	Tue 2/8/11	Tue 2/8/11		TEAM
	Project Planning Major Risks, Mini	1 day	Tue 2/15/11	Tue 2/15/11		TEAM
	Project Planning Definitions, Acro	1 day	Tue 2/15/11	Tue 2/15/11		TEAM
	Project Planning Preliminary Budg	1 day	Tue 2/15/11	Tue 2/15/11		TEAM
	Met with Soccer Club	1 day	Wed 2/9/11	Wed 2/9/11		Nick Hagood, Marshall Wildberger, Ross Norvell
	 Requirements	26 days	Thu 2/17/11	Thu 3/24/11	12	
	Project Requirements Introductory	1 day	Tue 2/22/11	Tue 2/22/11		TEAM
	Project Requirements Functional F	6 days	Tue 3/1/11	Tue 3/8/11		TEAM
	Project Requirements Performanc	1 day	Tue 3/15/11	Tue 3/15/11		TEAM
	Meet with Soccer Club for Second	1 day	Thu 3/10/11	Thu 3/10/11		Marshall Wildberger, Ross Norvell, Wes Conley
	Design	12 days	Wed 3/23/11	Thu 4/7/11	19	TEAM
	Implement	3 days	Fri 4/8/11	Tue 4/12/11	24	TEAM
	Final Presentation	10 days	Wed 4/13/11	Tue 4/26/11	25	TEAM
	Website	63 days	Fri 1/28/11	Tue 4/26/11	1	TEAM

10. Updated Budget

Budget Report as of Tue 3/22/11
SOFTENG_TEAM17

ID	Task Name	Fixed Cost	Fixed Cost Accrual	Total Cost	Baseline	Variance	Actual	Remaining
27	Website	\$0.00	Prorated	\$208,560.00	\$208,560.00	\$0.00	\$0.00	\$208,560.00
24	Design	\$0.00	Prorated	\$40,320.00	\$40,320.00	\$0.00	\$0.00	\$40,320.00
13	Project Planning Document	\$0.00	Prorated	\$36,960.00	\$36,960.00	\$0.00	\$0.00	\$36,960.00
26	Final Presentation	\$0.00	Prorated	\$31,200.00	\$31,200.00	\$0.00	\$0.00	\$31,200.00
21	Project Requirements Functional	\$0.00	Prorated	\$20,160.00	\$20,160.00	\$0.00	\$0.00	\$20,160.00
25	Implement	\$0.00	Prorated	\$9,360.00	\$9,360.00	\$0.00	\$0.00	\$9,360.00
14	Project Planning Overview, Scope	\$0.00	Prorated	\$3,360.00	\$3,360.00	\$0.00	\$0.00	\$3,360.00
15	Project Planning Major Risks, Mir	\$0.00	Prorated	\$3,360.00	\$3,360.00	\$0.00	\$0.00	\$3,360.00
16	Project Planning Definitions, Acrc	\$0.00	Prorated	\$3,360.00	\$3,360.00	\$0.00	\$0.00	\$3,360.00
17	Project Planning Preliminary Budj	\$0.00	Prorated	\$3,360.00	\$3,360.00	\$0.00	\$0.00	\$3,360.00
20	Project Requirements Introductic	\$0.00	Prorated	\$3,360.00	\$3,360.00	\$0.00	\$0.00	\$3,360.00
22	Project Requirements Performan	\$0.00	Prorated	\$3,360.00	\$3,360.00	\$0.00	\$0.00	\$3,360.00
7	Contact Dean of Students Office	\$0.00	Prorated	\$2,640.00	\$2,640.00	\$0.00	\$0.00	\$2,640.00
18	Met with Soccer Club	\$0.00	Prorated	\$2,640.00	\$2,640.00	\$0.00	\$0.00	\$2,640.00
23	Meet with Soccer Club for Mocku	\$0.00	Prorated	\$2,640.00	\$2,640.00	\$0.00	\$0.00	\$2,640.00
8	Contact SGA	\$0.00	Prorated	\$1,200.00	\$1,200.00	\$0.00	\$0.00	\$1,200.00
9	Contact Volleyball Club	\$0.00	Prorated	\$1,200.00	\$1,200.00	\$0.00	\$0.00	\$1,200.00
10	Contact Basketball Club	\$0.00	Prorated	\$1,200.00	\$1,200.00	\$0.00	\$0.00	\$1,200.00
11	Contact RU Soccer Club	\$0.00	Prorated	\$1,200.00	\$1,200.00	\$0.00	\$0.00	\$1,200.00
4	Develop Team Poster	\$0.00	Prorated	\$720.00	\$720.00	\$0.00	\$0.00	\$720.00
5	Develop Initial Website	\$0.00	Prorated	\$720.00	\$720.00	\$0.00	\$0.00	\$720.00
2	Choose Meeting Time	\$0.00	Prorated	\$360.00	\$360.00	\$0.00	\$0.00	\$360.00
3	Choose Team Name	\$0.00	Prorated	\$360.00	\$360.00	\$0.00	\$0.00	\$360.00
		\$0.00		\$381,600.00	\$381,600.00	\$0.00	\$0.00	\$381,600.00

11. Appendices

11.1 Definitions, Acronyms, Abbreviations

- Adobe Reader
 - Designed to view, create, and manage Adobe Portable Documents
- Apache
 - A public domain open-source web server
- CMS
 - Content Management System (Joomla! and WordPress)
- GIMP
 - GNU Image Manipulation Program: Used for image editing
- GNU
 - GNU Not UNIX
- HTML
 - Hypertext Mark-up Language: Used for developing webpages
- Joomla!
 - Content Management System
- MySQL
 - Structured Query Language: Used for working with databases
- Open SSL
 - Secure Socket Language
- OS
 - Operating System
- PHP
 - PHP Hypertext Pre-processor: General purpose scripting language
- phpMyAdmin
 - Tool intended to handle MySQL
- UNICS
 - Uniplexed Information and Computing System: Computer Operating System
- UNIX: See UNICS

11.2 References

- A-Team: <http://www.radford.edu/softeng01>
 - Requirements Document
- Highlander Data Solutions: <http://www.radford.edu/team08>
 - Requirements Document