**Software Requirements Specification**

**for**

**Echooo Forum**

**Version 1.0 Approved**

**Prepared by Team 34**

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**1. Introduction**

**1.1 Purpose**

This is the requirements documentation of Echooo.com game forum. The documentation includes all supporting information and detailed use cases of the website.

**1.2 Project Scope and Product Features**

The forum provides users a platform to post thoughts and articles that all the general users will be able to view on the board. The website allows the user to leave comments so that users can discuss with each other. Also, users can create their own personal webpage that includes their personal information, club information, comment board, etc. More detailed project features are listed in section 2 Overall Description. For more information about each use case, go to section 3 Functional Requirements.

**1.3 References**

Wiegers, Karl. *Software Requirements Specification for Cafeteria Ordering System*

Wiegers, Karl. *Software Requirements Specification for PearlsFromSand.com*

Existing websites used as models for ideas regarding the functionality documented here include:

[https://myanimelist.net](https://myanimelist.net/)

<https://store.steampowered.com/>

<https://www.reddit.com/>

<https://www.ign.com/>

<https://gamefaqs.gamespot.com/>

<https://www.neogaf.com>

**2. Overall Description**

**2.1 User Classes and Their Use Cases**

**2.1.1 Guest User**

A guest user is someone who visit the website to know about the games and articles about games without logging in. A guest user is able to read the articles but has no authority to leave comments, post articles or join in clubs.

UC-C-1: Read articles

UC-C-2: Sign up for new account

**2.1.2 General User**

A general user is someone who visit the website to know about the games and articles about games with their own account. A general user has his or her own personal homepage and is able to leave comments and post articles. Besides, general user can send friend request to other general user. Also a general user can create and join the clubs and apply for moderator.

UC-G-1: Login

UC-G-2: Log out

UC-G-3: Read articles

UC-G-4: Leave comments

UC-G-5: Rate articles

UC-G-6: Post articles

UC-G-7: Report foul language

UC-G-8: Private message

UC-G-9: Search articles

UC-G-10: Set favorites

UC-G-11: Create clubs

UC-G-12: Assign roles in club

UC-G-13: Join clubs

UC-G-14: Edit posted articles(own)

UC-G-15: Delete posts in the thread(own)

UC-G-16: Place someone on blacklist

UC-G-17: Upload image as banner of personal homepage

UC-G-18: Send friend request

UC-G-19: Apply for Moderator

**2.1.3 Official Account**

An official account is managed by someone who works in the gaming industry or someone who develops indie games. An official account is able to post news articles on the Echooo.com website.

UC-O-1: Login

UC-O-2: Log out

UC-O-3: Post news

**2.1.4 Moderator**

Moderator is the person who designated by administrators to help organize and manage boards. All registered users are able to apply to become moderators. Compare to general users, moderators have some special authorities such as highlighting posts, adding sticky posts, etc.

UC-M-1: Read articles

UC-M-2: Login

UC-M-3: Log out

UC-M-4: Leave comments

UC-M-5: Rate articles

UC-M-6: Post articles

UC-M-7: Report foul language

UC-M-8: Private message

UC-M-9: Search articles

UC-M-10: Set favorites

UC-M-11: Create clubs

UC-M-12: Assign roles in club

UC-M-13: Join clubs

UC-M-14: Edit posted articles(own)

UC-M-15: Delete posts in the thread(own)

UC-M-16: Place someone on blacklist

UC-M-17: Upload image as banner of personal homepage

UC-M-18: Send friend request

UC-M-19: Highlight posts

UC-M-20: Add sticky posts

UC-M-21: Send announcements

UC-M-22: Lock a post that includes inappropriate language

UC-M-23: Unlock a post after investigate

UC-M-24: Delete posts

**2.1.5 Administrator**

An Administrator is responsible for setting up, updating, and modifying the Echooo.com website.

UC-A-1: Read articles

UC-A-2: Login

UC-A-3: Log out

UC-A-4: Leave comments

UC-A-5: Rate articles

UC-A-6: Post articles

UC-A-7: Report foul language

UC-A-8: Private message

UC-A-9: Search articles

UC-A-10: Set favorites

UC-A-11: Create clubs

UC-A-12: Assign roles in club

UC-A-13: Join clubs

UC-A-14: Edit posted articles(own)

UC-A-15: Delete posts in the thread(own)

UC-A-16: Place someone on blacklist

UC-A-17: Upload image as banner of personal homepage

UC-A-18: Send friend request

UC-A-19: Highlight posts

UC-A-20: Add sticky posts

UC-A-21: Send announcements

UC-A-22: Lock a post that includes inappropriate language

UC-A-23: Unlock a post after investigate

UC-A-24: Delete posts

UC-A-25: Post news

UC-A-26: Ban user ID/IP address

UC-A-27: Assign Moderator

**2.2 Operating Environment**

Echooo.com shall be compatible with standard web browsers on Windows, Mac, and Web-enabled smartphone platforms.

**2.3 Design and Implementation Constraints**

CO-1: The Administrator shall be able to design the forum without the current template or model of other websites. The Administrator should modify and maintain the website by using the technology of HTML.

**2.4 User Documentation**

There are no user documentation for this website.

**2.5 Assumptions and Dependencies**

There are no known assumptions or dependencies for this website.

**3. Functional Requirements**

**3.1 Use Cases for Guest Users**

**UC-C-1: Read articles**

Description: A Guest User shall be able to click into any articles and view the contents.

**RA.link:**

The home page of the website shall contain the title of the featured articles and a link that goes to the page that provides the full content of the article.

(Priority = H)

**RA.view.current:**

A Guest User shall be able to read any current article entry.

(Priority = H)

**UC-C-2: Sign up for new account**

Description: A Guest User shall be able to use his/her email address to create an account.

**SU.check.email:**

The system will check whether the email has already created an account on the website and is valid.

(Priority=H)

**SU.check.username:**

The system will check whether the username has been taken by other users and uses the appropriate characters.

(Priority = H)

**SU.check.password:**

The system will check whether the password contains at least 8 characters with both letters and numbers.

(Priority = H)

**SU.confirm:**

The system will display a message to inform the user that the account has been created successfully.

(Priority = H)

**3.2 Use Cases for General Users**

**UC-G-1: Login**

Description: A General User shall be able to use his/her username and password to log into the website.

**LI.check:**

The system will check whether the username matches the password.

(Priority = H)

**LI.confirm:**

The system will return to the home page if the user has logged into the website successfully.

(Priority = H)

**UC-G-2: Log out**

Description: A General User shall be able to log out from the website.

**LO.confirm:**

The system will return to the home page if the user has logged out from the website successfully.

(Priority = H)

**UC-G-3: Read articles**

Description: A General User shall be able to click into any articles and view the contents.

**RA.link:**

The home page of the website shall contain the title of the featured articles and a link that goes to the page that provides the full content of the article.

(Priority = H)

**RA.view.current:**

A Guest User shall be able to read any current article entry.

(Priority = H)

**UC-G-4: Leave comments**

Description: A General User shall be able to leave comments under articles and posts.

**LC.view:**

A General User shall be able to view all comments on any articles.

(Priority = H)

**LC.button:**

The site will display a "Reply" button on each article. A General User will be able to click on the button and type in to the text entry box.

(Priority = H)

**LC.comment:**

A General User shall be able to post a comment on any articles.

(Priority = H)

**UC-G-5: Rate articles**

Description: A General User shall be able to click on the "thumbs up" or the "thumbs down" button to rate articles.

**RA.rate:**

A General User shall be able to click on the "thumbs up" or the "thumbs down" button.

(Priority = L)

**RA.rate.check:**

The system will check whether the user has already rated the article.

(Priority = L)

**RA.button:**

The site shall display the "thumbs up" and the "thumbs down" button on any articles.

(Priority = L)

**UC-G-6: Post articles**

Description: A General User shall be able to post articles on the Board page and the Community page on the website.

**PA.post.button:**

The "Post" button will be displayed on multiple pages and allows the users to click on.

(Priority = H)

**PA.post:**

The site will display a text entry box for the user to enter contents.

(Priority = H)

**PA.publish.button:**

The site will display a "Publish" button under the text entry box. The user shall be able to click on the button and publish the article.

(Priority = H)

**UC-G-7: Report foul language**

Description: A General User shall be able to report any user who posts inappropriate comments that include foul languages from the website.

**R.report.button:**

The site will display a "Report" button that will lead the user to a report page.

(Priority = H)

**R.report:**

The General User will be able to enter the username of the user that he/she wants to report on and type in the reasonings.

(Priority = M)

**R.send.button:**

The site will display a "Send" button that allows the user to click on.

(Priority = M)

**UC-G-8: Private message**

Description: A General User shall be able to send private messages to other users from the website.

**PM.view:**

A General User shall be able to view all sent and inbox messages.

(Priority = H)

**PM.send:**

A General User shall be able to send private messages to other users from the website.

(Priority = H)

**PM.receive:**

A General User shall be able to receive private messages from other users from the websites.

(Priority = H)

**UC-G-9: Search articles**

Description: A General User will be able to find a list of articles of his/her interest by searching the keywords.

**SA.search.keywords:**

The user enters keywords in the search bar

(Priority=H)

**SA.search.display:**

The system will display all the search results that include keywords that the user has entered in the search bar.

(Priority=H)

**UC-G-10: Set favorites**

Description: A General User shall be able to put articles and posts to his Favorites. A General User shall be able to access to the favorites from his/her homepage.

**SF.notification.success:**

The system will display a notification on the screen saying that the article had set to favorite successfully.

(Priority=H)

**SF.notification.fail:**

The system will display a notification on the screen saying that the article has already set to favorite.

(Priority=H)

**SF.icon:**

The heart icon that represents favorite will automatically turn red after the user has set the article to favorite.

(Priority=M)

**UC-G-11: Create clubs**

Description: A General User shall be able to create his/her own clubs.

**CC.create.button:**

There will be a button placed on the top right. It will lead the users to the create club web page after they click the button.

(Priority=H)

**CC.check. name:**

The user who wants to create a club has to enter a club name in the entry bar. The system will check whether the club name is less than a maximum of 50 characters.

(Priority=M)

**CC.upload:**

The user will be able to upload a profile picture for the club.

(Priority=M)

**UC-G-12: Assign roles in club**

Description: A General User who is also the Club Owners shall be able to assign roles to the club members so that his/her can help the owner to manage the club.

**ARC.button:**

In the personal homepage, there will be a button that allows the user to open his/her club homepage. Click on the “Assign Roles”

(Priority=H)

**ARC.select:**

The club owner finds a member, clicks on the dropdown list and select a role.

(Priority=M)

**ARC.confirm:**

Click the “Assign” button to assign the role to a specific club member.

(Priority=M)

**UC-G-13: Join clubs**

Description: A General User shall be able to join any clubs his/her likes.

**JC.search:**

The user needs to search for the club she/he wants to join in the site’s homepage. Click into the club homepage.

(Priority=H)

**JC.join**

There will be a “Join Club” button placed in the club homepage. Click on the button to join the club.

(Priority=H)

**JC.confirm**

The button will turn gray after the user has joined the club successfully.

(Priority=M)

**UC-G-14: Edit posted articles(own)**

Description: A General User shall be able to still edit articles after he/she posted it.

**EPA.edit:**

In order to edit the article, the user has to find the exact section that he/she has posted the article on. Click on the “edit” button to start edit posted article in edition view.

(Priority=H)

**EPA. confirm:**

After the user has finished editing his/her article, he/she needs to click “complete and post” button on the bottom, so that they can post the new version on the board.

(Priority=H)

**EPA.notification:**

A notification will automatically appear after the user has posted the new version successfully.

(Priority=H)

**UC-G-15: Delete posts in the thread(own)**

Description: A General User shall be able to delete his/her own articles and posts.

**DP.delete:**

In order to delete the article, the user has to find the exact section that he/she has posted the article on. Click on the “delete” button.

(Priority=H)

**DP.confirm:**

A notification will appear after the user clicks “delete” button. Click “Confirm” to delete the article from the board. The system will delete the article from the database.

**UC-G-16: Place someone on blacklist**

Description: A General User shall be able to put other users into blacklist, and block them from viewing their articles, comments and personal homepage.

**PSB.block:**

In order to block someone, the user needs to click into the homepage of the person who he/she wants to block. Click the “block” button to place someone into the blacklist.

(Priority=H)

**PSB.icon:**

After the user has placed a person into the blacklist, the block icon will appear under this person’s profile picture.

(Priority=M)

**UC-G-17: Upload image as banner of personal homepage**

Description: A General User shall be able to upload the image from their file as the banner of their homepage.

**UIB.upload:**

The user needs to go enter the personal homepage, click “upload new image” button beside the banner. Upload a picture.

(Priority=M)

**UIB.adjust:**

The user will be able to adjust the size of the image so that the image could fit perfectly on the top of the homepage.

(Priority=L)

**UIB.comfirm:**

After the user has adjusted the image, click the “Confirm” button to finish editing the banner.

(Priority=H)

**UC-G-18: Send friend request**

Description: A General User shall be able to send a friend request to the other users. If the user who receives the friend request agrees, they become friends.

**SFR.send.ID**

The user will click the ID of the person that the user would like to send friend request.

(Priority=H)

**SFR.send.homepage**

The user will enter that person’s personal homepage

(Priority=H)

**SFR.send.request**

The user will click the “Send friend request” button below that person’s profile.

(Priority=H)

**UC-G-19: Apply for Moderator**

Description: A General User shall be able to apply for a moderator of the section to manage the section and posts.

**AM.apply.button**

The user will click the “Apply for moderator” button in the section.

(Priority=M)

**AM.apply.info**

The user will Fill in the ID and basic information.

(Priority=M)

**AM.apply.reason**

The user will fill in the reason of applying for moderator.

(Priority=M)

**AM.apply.confirm**

The user will check the information and click the “Confirm” button.

(Priority=M)

**3.3 Use Cases for Official Accounts**

**UC-O-1: Login**

Description: An Official Account shall be able to use his/her username and password to log into the website.

**LI.check:**

The system will check whether the username matches the password.

(Priority = H)

**LI.confirm:**

The system will return to the home page if the user has logged into the website successfully.

(Priority = H)

**UC-O-2: Log out**

Description: An Official Account shall be able to log out from the website.

**LO.confirm:**

The system will return to the home page if the user has logged out from the website successfully.

(Priority = H)

**UC-O-3: Post news**

Description: An Official Account shall be able to post the news and announcements.

**PN.post.box**

The official account will find the post box at the bottom of the section.

(Priority=M)

**PN.post.title**

The official account will enter the title of the news.

(Priority=M)

**PN.post.content**

The official account will enter the content of the news.

(Priority=M)

**PN.post.button**

The official account will click the “Send” button.

(Priority=M)

**3.4 Use Cases for Moderators**

**UC-M-1: Read articles**

Description: A Moderator shall be able to click into any articles and view the contents.

**RA.link:**

The home page of the website shall contain the title of the featured articles and a link that goes to the page that provides the full content of the article.

(Priority = H)

**RA.view.current:**

A Moderator shall be able to read any current article entry.

(Priority = H)

**UC-M-2: Login**

Description: A Moderator shall be able to use his/her username and password to log into the website.

**LI.check:**

The system will check whether the username matches the password.

(Priority = H)

**LI.confirm:**

The system will return to the home page if the user has logged into the website successfully.

(Priority = H)

**UC-M-3: Log out**

Description: A Moderator shall be able to log out from the website.

**LO.confirm:**

The system will return to the home page if the user has logged out from the website successfully.

(Priority = H)

**UC-M-4: Leave comments**

Description: A Moderator shall be able to leave comments under articles and posts.

**LC.view:**

A Moderator shall be able to view all comments on any articles.

(Priority = H)

**LC.button:**

The site will display a "Reply" button on each article. A Moderator will be able to click on the button and type in to the text entry box.

(Priority = H)

**LC.comment:**

A Moderator shall be able to post a comment on any articles.

(Priority = H)

**UC-M-5: Rate articles**

Description: A Moderator shall be able to click on the "thumbs up" or the "thumbs down" button to rate articles.

**RA.rate:**

A Moderator shall be able to click on the "thumbs up" or the "thumbs down" button.

(Priority = L)

**RA.rate.check:**

The system will check whether the user has already rated the article.

(Priority = L)

**RA.button:**

The site shall display the "thumbs up" and the "thumbs down" button on any articles.

(Priority = L)

**UC-M-6: Post articles**

Description: A Moderator shall be able to post articles in the Board page and the Community page on the website.

**PA.post.button:**

The "Post" button will be displayed on multiple pages and allows the users to click on.

(Priority = H)

**PA.post:**

The site will display a text entry box for the user to enter contents.

(Priority = H)

**PA.publish.button:**

The site will display a "Publish" button under the text entry box. The user shall be able to click on the button and publish the article.

(Priority = H)

**UC-M-7: Report foul language**

Description: A Moderator shall be able to report any user who posts inappropriate comments that include foul languages from the website.

**R.report.button:**

The site will display a "Report" button that will lead the user to a report page.

(Priority = H)

**R.report:**

A Moderator will be able to enter the username of the user that he/she wants to report on and type in the reasonings.

(Priority = M)

**R.send.button:**

The site will display a "Send" button that allows the user to click on.

(Priority = M)

**UC-M-8: Private message**

Description: A Moderator shall be able to send private messages to other users from the website.

**PM.view:**

A Moderator shall be able to view all sent and inbox messages.

(Priority = H)

**PM.send:**

A Moderator shall be able to send private messages to other users from the website.

(Priority = H)

**PM.receive:**

A Moderator shall be able to receive private messages from other users from the websites.

(Priority = H)

**UC-M-9: Search articles**

Description: A Moderator shall be able to find a list of articles of his/her interest by searching the keywords.

**SA.search.keywords:**

The moderator enters keywords in the search bar

(Priority=H)

**SA.search.display:**

The system will display all the search results that include keywords that the moderator has entered in the search bar.

(Priority=H)

**UC-M-10: Set favorites**

Description: A Moderator shall be able to put articles and posts to his Favorites. A Moderator shall be able to access to the favorites from his/her homepage.

**SF.notification.success:**

The system will display a notification on the screen saying that the article had set to favorite successfully.

(Priority=H)

**SF.notification.fail:**

The system will display a notification on the screen saying that the article has already set to favorite.

(Priority=H)

**SF.icon:**

The heart icon that represents favorite will automatically turn red after the moderator has set the article to favorite.

(Priority=M)

**UC-M-11: Create clubs**

Description: A Moderator shall be able to create his/her own clubs.

**CC.create.button:**

There will be a button placed on the top right. It will lead the moderators to the create club web page after they click the button.

(Priority=H)

**CC.check. name:**

The moderator who wants to create a club has to enter a club name in the entry bar. The system will check whether the club name is less than a maximum of 50 characters.

(Priority=M)

**CC.upload:**

The moderator will be able to upload a profile picture for the club.

(Priority=M)

**UC-M-12: Assign roles in club**

Description: A Moderator who is also the Club Owners shall be able to assign roles to the club members so that his/her can help the owner to manage the club.

**ARC.button:**

In the personal homepage, there will be a button that allows the moderator to open his/her club homepage. Click on the “Assign Roles”

(Priority=H)

**ARC.select:**

The club owner finds a member, clicks on the dropdown list and select a role.

(Priority=M)

**ARC.confirm:**

Click the “Assign” button to assign the role to a specific club member.

(Priority=M)

**UC-M-13: Join clubs**

Description: A Moderator shall be able to join any clubs his/her likes.

**JC.search:**

The moderator needs to search for the club she/he wants to join in the site’s homepage. Click into the club homepage.

(Priority=H)

**JC.join**

There will be a “Join Club” button placed in the club homepage. Click on the button to join the club.

(Priority=H)

**JC.confirm**

The button will turn gray after the moderator has joined the club successfully.

(Priority=M)

**UC-M-14: Edit posted articles(own)**

Description: A Moderator shall be able to still edit articles after he/she posted it.

**EPA.edit:**

In order to edit the article, the moderator has to find the exact section that he/she has posted the article on. Click on the “edit” button to start edit posted article in edition view.

(Priority=H)

**EPA. confirm:**

After the moderator has finished editing his/her article, he/she needs to click “complete and post” button on the bottom, so that they can post the new version on the board.

(Priority=H)

**EPA.notification:**

A notification will automatically appear after the moderator has posted the new version successfully.

(Priority=H)

**UC-M-15: Delete posts in the thread(own)**

Description: A Moderator shall be able to delete his/her own articles and posts.

**DP.delete:**

In order to delete the article, the moderator has to find the exact section that he/she has posted the article on. Click on the “delete” button.

(Priority=H)

**DP.confirm:**

A notification will appear after the moderator clicks “delete” button. Click “Confirm” to delete the article from the board. The system will delete the article from the database.

**UC-M-16: Place someone on blacklist**

Description: A Moderator shall be able to put other moderators into blacklist, and block them from viewing their articles, comments and personal homepage.

**PSB.block:**

In order to block someone, the moderator needs to click into the homepage of the person who he/she wants to block. Click the “block” button to place someone into the blacklist.

(Priority=H)

**PSB.icon:**

After the moderator has placed a person into the blacklist, the block icon will appear under this person’s profile picture.

(Priority=M)

**UC-M-17: Upload image as banner of personal homepage**

Description: A Moderator shall be able to upload the image from their file as the banner of their homepage.

**UIB.upload:**

The moderator needs to go enter the personal homepage, click “upload new image” button beside the banner. Upload a picture.

(Priority=M)

**UIB.adjust:**

The moderator will be able to adjust the size of the image so that the image could fit perfectly on the top of the homepage.

(Priority=L)

**UIB.comfirm:**

After the moderator has adjusted the image, click the “Confirm” button to finish editing the banner.

(Priority=H)

**UC-M-18: Send friend request**

Description: A Moderator shall be able to send a friend request to the other moderators. If the user who receives the friend request agrees, they become friends.

**SFR.send.ID**

The moderator will click the ID of the person that the moderator would like to send friend request.

(Priority=H)

**SFR.send.homepage**

The moderator will enter that person’s personal homepage

(Priority=H)

**SFR.send.request**

The moderator will click the “Send friend request” button below that person’s profile.

(Priority=H)

**UC-M-19: Highlight posts**

Description: A Moderator shall be able to highlight the posts with high quality.

**HL.hightlight.post**

The moderator will click the post which the moderator wants to highlight.

(Priority=M)

**HL.highlight.button**

The moderator will click the set button on the top of the post.

(Priority=M)

**HL.highlight.choice**

The moderator will choose “Highlight this post” button.

(Priority=M)

**UC-M-20: Add sticky posts**

Description: A Moderator shall be able to turn the normal posts to sticky posts.

**ASP.add.post**

The moderator will click the post which the moderator wants to stick.

(Priority=M)

**ASP.add.button**

The moderator will click the set button on the top of the post.

(Priority=M)

**ASP.add.choice**

The moderator will choose “Set as sticky post” button.

(Priority=M)

**UC-M-21: Send announcements**

Description: A Moderator shall be able to send announcement in the section.

**SA.send.box**

The moderator will find the post box at the bottom of the section.

(Priority=M)

**SA.send.title**

The moderator will enter the title of the announcement.

(Priority=M)

**SA.send.content**

The moderator will enter the content of the announcement.

(Priority=M)

**SA.send.button**

The moderator will click the “Send” button.

(Priority=M)

**UC-M-22: Lock a post that includes inappropriate contents**

Description: A Moderator shall be able to lock posts with inappropriate language and images.

**LP.lock.post**

The moderator will click the post which the moderator wants to lock.

(Priority=M)

**LP.lock.button**

The moderator will click the set button on the top of the post.

(Priority=M)

**LP.lock.choice**

The moderator will choose “Lock” button.

(Priority=M)

**UC-M-23: Unlock a post after investigate**

Description: A Moderator shall be able to unlock posts if there is no inappropriate language.

**UP.unlock.post**

The moderator will click the post which the moderator wants to unlock.

(Priority=M)

**UP.unlock.button**

The moderator will click the set button on the top of the post.

(Priority=M)

**UP.unlock.choice**

The moderator will choose “Unlock” button.

(Priority=M)

**UC-M-24: Delete posts**

Description: A Moderator shall be able to delete the posts in section.

**DP.delete.post**

The moderator will click the post which the moderator wants to delete.

(Priority=M)

**DP.delete.button**

The moderator will click the set button on the top of the post.

(Priority=M)

**DP.delete.choice**

The moderator will choose “Delete” button.

(Priority=M)

**3.5 Use Cases for Administrator**

**UC-A-1: Read articles**

Description: An Administrator shall be able to click into any articles and view the contents.

**RA.link:**

The home page of the website shall contain the title of the featured articles and a link that goes to the page that provides the full content of the article.

(Priority = H)

**RA.view.current:**

An Administrator shall be able to read any current article entry.

(Priority = H)

**UC-A-2: Login**

Description: An Administrator shall be able to use his/her username and password to log into the website.

**LI.check:**

The system will check whether the username matches the password.

(Priority = H)

**LI.confirm:**

The system will return to the home page if the user has logged into the website successfully.

(Priority = H)

**UC-A-3: Log out**

Description: An Administrator shall be able to log out from the website.

**LO.confirm:**

The system will return to the home page if the user has logged out from the website successfully.

(Priority = H)

**UC-A-4: Leave comments**

Description: An Administrator shall be able to leave comments under articles and posts.

**LC.view:**

An Administrator shall be able to view all comments on any articles.

(Priority = H)

**LC.button:**

The site will display a "Reply" button on each article. An Administrator will be able to click on the button and type in to the text entry box.

(Priority = H)

**LC.comment:**

An Administrator shall be able to post a comment on any articles.

(Priority = H)

**UC-A-5: Rate articles**

Description: An Administrator shall be able to click on the "thumbs up" or the "thumbs down" button to rate articles.

**RA.rate:**

An Administartor shall be able to click on the "thumbs up" or the "thumbs down" button.

(Priority = L)

**RA.rate.check:**

The system will check whether the user has already rated the article.

(Priority = L)

**RA.button:**

The site shall display the "thumbs up" and the "thumbs down" button on any articles.

(Priority = L)

**UC-A-6: Post articles**

Description: An Administrator shall be able to post articles in the Board page and the Community page on the website.

**PA.post.button:**

The "Post" button will be displayed on multiple pages and allows the users to click on.

(Priority = H)

**PA.post:**

The site will display a text entry box for the user to enter contents.

(Priority = H)

**PA.publish.button:**

The site will display a "Publish" button under the text entry box. The user shall be able to click on the button and publish the article.

(Priority = H)

**UC-A-7: Report foul language**

Description: An Administrator shall be able to report any user who posts inappropriate comments that include foul languages from the website.

**R.report.button:**

The site will display a "Report" button that will lead the user to a report page.

(Priority = H)

**R.report:**

An Adminisrator will be able to enter the username of the user that he/she wants to report on and type in the reasonings.

(Priority = M)

**R.send.button:**

The site will display a "Send" button that allows the user to click on.

(Priority = M)

**UC-A-8: Private message**

Description: An Administrator shall be able to send private messages to other users from the website.

**PM.view:**

An Administrator shall be able to view all sent and inbox messages.

(Priority = H)

**PM.send:**

An Administrator shall be able to send private messages to other users from the website.

(Priority = H)

**PM.receive:**

An Administrator shall be able to receive private messages from other users from the websites.

(Priority = H)

**UC-A-9: Search articles**

Description: An Administrator shall be able to find a list of articles of his/her interest by searching the keywords.

**SA.search.keywords:**

The administrator enters keywords in the search bar

(Priority=H)

**SA.search.display:**

The system will display all the search results that include keywords that the administrator has entered in the search bar.

(Priority=H)

**UC-A-10: Set favorites**

Description: An Administrator shall be able to put articles and posts to his Favorites. An Administrator shall be able to access to the favorites from his/her homepage.

**SF.notification.success:**

The system will display a notification on the screen saying that the article had set to favorite successfully.

(Priority=H)

**SF.notification.fail:**

The system will display a notification on the screen saying that the article has already set to favorite.

(Priority=H)

**SF.icon:**

The heart icon that represents favorite will automatically turn red after the administrator has set the article to favorite.

(Priority=M)

**UC-A-11: Create clubs**

Description: An Administrator shall be able to create his/her own clubs.

**CC.create.button:**

There will be a button placed on the top right. It will lead the administrators to the create club web page after they click the button.

(Priority=H)

**CC.check. name:**

The administrator who wants to create a club has to enter a club name in the entry bar. The system will check whether the club name is less than a maximum of 50 characters.

(Priority=M)

**CC.upload:**

The administrator will be able to upload a profile picture for the club.

(Priority=M)

**UC-A-12: Assign roles in club**

Description: An Administrator who is also the Club Owners shall be able to assign roles to the club members so that his/her can help the owner to manage the club.

**ARC.button:**

In the personal homepage, there will be a button that allows the administrator to open his/her club homepage. Click on the “Assign Roles”

(Priority=H)

**ARC.select:**

The club owner finds a member, clicks on the dropdown list and select a role.

(Priority=M)

**ARC.confirm:**

Click the “Assign” button to assign the role to a specific club member.

(Priority=M)

**UC-A-13: Join clubs**

Description: An Administrator shall be able to join any clubs his/her likes.

**JC.search:**

The administrator needs to search for the club she/he wants to join in the site’s homepage. Click into the club homepage.

(Priority=H)

**JC.join**

There will be a “Join Club” button placed in the club homepage. Click on the button to join the club.

(Priority=H)

**JC.confirm**

The button will turn gray after the administrator has joined the club successfully.

(Priority=M)

**UC-A-14: Edit posted articles(own)**

Description: An Administrator shall be able to still edit articles after he/she posted it.

**EPA.edit:**

In order to edit the article, the administrator has to find the exact section that he/she has posted the article on. Click on the “edit” button to start edit posted article in edition view.

(Priority=H)

**EPA. confirm:**

After the administrator has finished editing his/her article, he/she needs to click “complete and post” button on the bottom, so that they can post the new version on the board.

(Priority=H)

**EPA.notification:**

A notification will automatically appear after the administrator has posted the new version successfully.

(Priority=H)

**UC-A-15: Delete posts in the thread(own)**

Description: An Administrator shall be able to delete his/her own articles and posts.

**DP.delete:**

In order to delete the article, the administrator has to find the exact section that he/she has posted the article on. Click on the “delete” button.

(Priority=H)

**DP.confirm:**

A notification will appear after the administrator clicks “delete” button. Click “Confirm” to delete the article from the board. The system will delete the article from the database.

**UC-A-16: Place someone on blacklist**

Description: An administrator shall be able to put other users into blacklist, and block them from viewing their articles, comments and personal homepage.

**PSB.block:**

In order to block someone, the administrator needs to click into the homepage of the person who he/she wants to block. Click the “block” button to place someone into the blacklist.

(Priority=H)

**PSB.icon:**

After the administrator has placed a person into the blacklist, the block icon will appear under this person’s profile picture.

(Priority=M)

**UC-A-17: Upload image as banner of personal homepage**

Description: An administrator shall be able to upload the image from their file as the banner of their homepage.

**UIB.upload:**

The administrator needs to go enter the personal homepage, click “upload new image” button beside the banner. Upload a picture.

(Priority=M)

**UIB.adjust:**

The Administrator will be able to adjust the size of the image so that the image could fit perfectly on the top of the homepage.

(Priority=L)

**UIB.comfirm:**

After the modera has adjusted the image, click the “Confirm” button to finish editing the banner.

(Priority=H)

**UC-A-18: Send friend request**

Description: An Administrator shall be able to send a friend request to the other users. If the user who receives the friend request agrees, they become friends.

**SFR.send.ID**

The administrator will click the ID of the person that the user would like to send friend request.

(Priority=H)

**SFR.send.homepage**

The administrator will enter that person’s personal homepage

(Priority=H)

**SFR.send.request**

The administrator will click the “Send friend request” button below that person’s profile.

(Priority=H)

**UC-A-19: Highlight posts**

Description: An Administrator shall be able to highlight the posts with high quality.

**HL.hightlight.post**

The administrator will click the post which the administrator wants to highlight.

(Priority=M)

**HL.highlight.button**

The administrator will click the set button on the top of the post.

(Priority=M)

**HL.highlight.choice**

The administrator will choose “Highlight this post” button.

(Priority=M)

**UC-A-20: Add sticky posts**

Description: An Administrator shall be able to turn the normal posts to sticky posts.

**ASP.add.post**

The administrator will click the post which the administrator wants to stick.

(Priority=M)

**ASP.add.button**

The administrator will click the set button on the top of the post.

(Priority=M)

**ASP.add.choice**

The administrator will choose “Set as sticky post” button.

(Priority=M)

**UC-A-21: Send announcements**

Description: An Administrator shall be able to send announcement in the section.

**SA.send.box**

The administrator will find the post box at the bottom of the section.

(Priority=M)

**SA.send.title**

The administrator will enter the title of the announcement.

(Priority=M)

**SA.send.content**

The administrator will enter the content of the announcement.

(Priority=M)

**SA.send.button**

The administrator will click the “Send” button.

(Priority=M)

**UC-A-22: Lock a post that includes inappropriate contents**

Description: An Administrator shall be able to lock posts with inappropriate language and images.

**LP.lock.post**

The administrator will click the post which the moderator wants to lock.

(Priority=M)

**LP.lock.button**

The administrator will click the set button on the top of the post.

(Priority=M)

**LP.lock.choice**

The administrator will choose “Lock” button.

(Priority=M)

**UC-A-23: Unlock a post after investigate**

Description: An Administrator shall be able to unlock posts if there is no inappropriate language.

**UP.unlock.post**

The administrator will click the post which the moderator wants to unlock.

(Priority=M)

**UP.unlock.button**

The administrator will click the set button on the top of the post.

(Priority=M)

**UP.unlock.choice**

The administrator will choose “Unlock” button.

(Priority=M)

**UC-A-24: Delete posts**

Description: An Administrator shall be able to delete the posts in section.

**DP.delete.post**

The administrator will click the post which the moderator wants to delete.

(Priority=M)

**DP.delete.button**

The administrator will click the set button on the top of the post.

(Priority=M)

**DP.delete.choice**

The administrator will choose “Delete” button.

(Priority=M)

**UC-A-25: Post news**

**PN.post.box**

The administrator will find the post box at the bottom of the section.

(Priority=M)

**PN.post.title**

The administrator will enter the title of the news.

(Priority=M)

**PN.post.content**

The administrator will enter the content of the news.

(Priority=M)

**PN.post.button**

The administrator will click the “Send” button.

(Priority=M)

Description: An Administrator shall be able to post the news and announcements.

**UC-A-26: Ban user ID/IP address**

Description: An Administrator shall be able to ban the ID/IP address of some users who are reported multiple times.

**BU.ban.user**

The administrator will click the ID/IP who are reported multiple times.

(Priority=M)

**BU.ban.userpage**

The administrator will go to the user page.

(Priority=M)

**BU.ban.setting**

The administrator will go to setting on user page.

(Priority=M)

**BU.ban.button**

The administrator will click on the ban button.

(Priority=M)

**BU.ban.IP**

The administrator find out the IP they want to ban

(Priority=M)

**BU.ban.IPLIST**

The administrator put the IP on the banIPList

(Priority=M)

**UC-A-27: Assign Moderator**

Description: An Administrator shall be able to specify a user to become a moderator.

**AM.assign.board**

The administrator will enter the targeted board.

(Priority=M)

**AM.assign.button**

The administrator will click on the "add" button

(Priority=M)

**AM.assign.add**

The administrator will enter the USERID they wanted to assign

(Priority=M)

**4. External Interface Requirements**

**4.1 User Interfaces**

UI-1: For those users who have not logged into the site, each page in the website shall have both sign up and login buttons on the upper right field in all forms.

UI-2: If the user has logged into their account, each page in the website shall have a user board on the upper right shows the username and user's icon, The mail and notices sent to the user can be views on the icon at the left of the user board, when user click on the icons, a drop down box will show the current mail or notice. When user clicks on the user board, a drop down box included profile and logout will appear, profile will link to the personal page of the user, logout button will help user to logout.

UI-3: Each page in the web site shall have a footer which links to homepage, terms and contact page. Also, there are links to our official account in Facebook, Twitter and Discord. When users click the words and small icons, they will be led to the page or website. These links can help users turn into the pages and know more information about our forum at once.

UI-4: Each page in the website shall have a navigation bar with links to main pages. The menu options shall change font color, style, and/or size when the user hovers his mouse pointer over them. If the currently displayed page appears in the menu bar, its link shall be shown in a different font color than the other menu options.

UI-5: Each page in the website shall have a search bar above the navigation bar that allows the user to enter keywords so that they will be able to find the specific posts or articles. After the user hit enter, all posts and articles that include the word the user has entered will be displayed on the webpage.

UI-6: Each page in the website shall have a logo on the upper left, this logo is linked to the home page.

UI-7: Each page in the web site shall display the following copyright notice at the bottom: Copyright © 2018 Echooo Team. All rights reserved.

UI-8: The input fields should be wide enough to accommodate all the user inputs.

**4.2 Software Interfaces**

External links will exist from Echooo.com to the following sites:

4.2.1 facebook.com

4.2.2 twitter.com

4.2.3 discordapp.com

Links are expected to come into Echooo.com from the following sites:

4.2.4 facebook.com

4.2.5 twitter.com

4.2.6 discordapp.com

4.2.7 website that user may link on their article

**4.3 Communications Interfaces**

CI-1: All users except Guest Users shall be able to send and receive private messages between each other.

**5. Other Nonfunctional Requirements**

**5.1 Performance Requirements**

PE-1: The webpages shall fit different screen size and flexible on different electronic devices.

PE-2: The web pages shall fully paint in an average response time of 3 seconds or less base on a normal internet connection.

**5.2 Security**

SE-1: All user passwords shall be encrypted and stored in database.

SE-2: Users shall be required to log in to the Echooo website for all operations except reading articles.

SE-3: The system shall permit General Users and Moderators to view only their own visit histories, not visit histories by other General Users and Moderators.

**5.3 Extensibility**

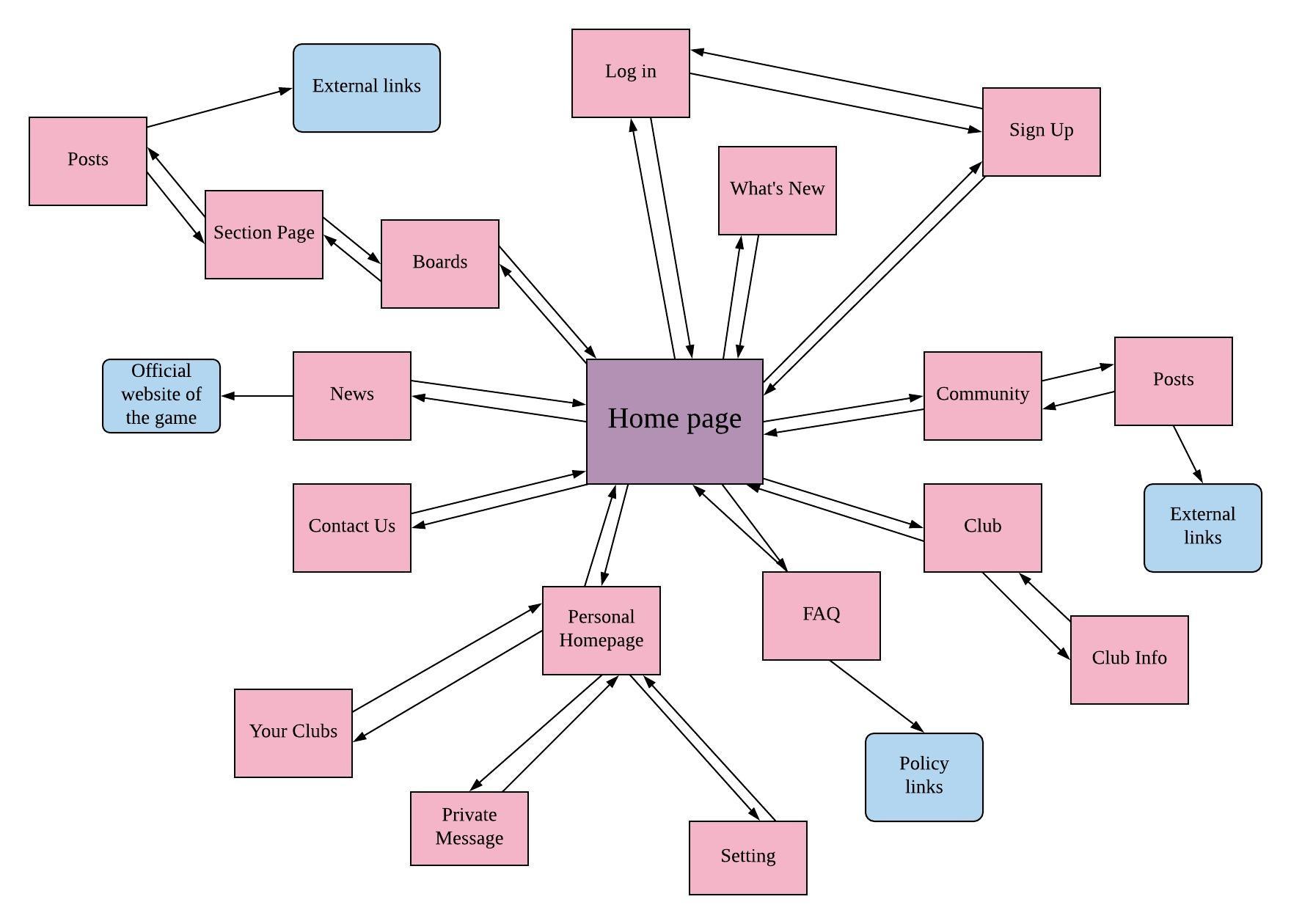
EX-1: The forum shall be designed to permit adding a database in order to store the data of users and record the operation of Administrators.

**6. Business Rules**

BR-1: Any posted articles or otherwise republished may only be credited to the author’s full name if the author indicated that that was permissible at the time he submitted the article.

BR-2: All users must be at least 13 years old to register for accounts on Echooo.

**Appendix A: Analysis Models**



**Appendix B: Issues List**

1. The user will not be able retrieve the account if he/she forgot the username or password.
2. The user cannot understand English.
3. The user are not allow to change their password and username
4. The user can not dismiss the club they create.

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Team 34 | 11/10/18 | 1. Initial baselined draft | 1.0 draft |
| Team 34 | 11/17/18 | 1. Initial baselined version | 1.0 approved |