ER: Requirements Specification

The Super Legit Collaborative News (SLCN) is a project headed by a small group of developers with the main goal of free, open, and accessible news sharing for and by users.

This will allow all users to view and browse all types of news and comments on any topic, with access to text search and category selection.

A1: Super Legit Collaborative News (SLCN)

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This will allow all users to view and browse all types of news and comments on any topic, with access to text search and category selection.

On the home page, the users will view the trending or recent news items and be able to search by any news item, user or category on the search bar.

The users can register an account on the platform and be able to login as authenticated users. These users will be able to post news and comments, as well as vote on any of them. They will have access to a profile, housing their personal information, profile picture, and reputation. The reputation is determined by the number of likes and dislikes on their news and comments.

They will also be able to follow or unfollow other users and categories. By following another person, the news they publish will appear on the user's feed. The platform will also employ notifications to inform users of every like and comment made on their posts.

Besides the home page, authenticated users will also have access to a profile page. In their profile, the authors have access to a list of their posted news and comments, which they can edit and delete and have a place where they can manage the users they follow and the users following them. Also, they will have options to edit their own profile picture and other information.

The platform will also employ administrators capable of moderating, editing, and deleting posts, comments, and user accounts. Administrators will also be in charge of managing categories.

The platform will have an adaptive, responsive design to allow it to work smoothly on multiple devices (desktop, smartphone, etc...) as well as an intuitive user interface and navigation.

A2: Actors and User stories

This artifact contains the information and specification of the actors and their user stories. It also contains the projects supplementary requirements.

1. Actors

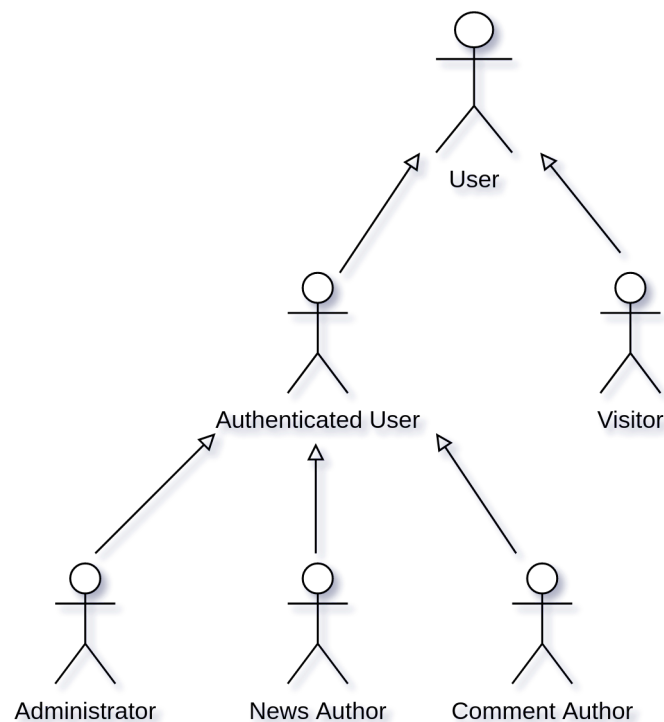The actors for the Super Legit Collaborative News (SLCN) project are represented in Figure 1 and described in Table 1.

Figure 1: SLCN actors

Identifier	Description
User	Generic User that can view and search news items and comments.
Visitor	Unauthenticated User that can sign-up and sign-in
Authenticated User	Authenticated user that can make a new post, comment on a post, vote on a post or comment, that has access to a profile with a reputation and that can follow and unfollow users and categories.
News Author	Authenticated User that can also edit and delete their own news items.
Comment Author	Authenticated User that can also edit and delete their comments.
Administrator	Authenticated User that is responsible for the moderation of users and content. They can edit or delete posts and comments of any user, as well as their profiles and can create and manage news categories.

Table 1: SLCN actors description

2. User Stories

For the SLCN project, the considered user stories are presented below.

2.1 User

Identifier	Name	Priority	Description
US01	View Top News Feed	High	As a User, I want to access the top news feed, so that I can view all the most relevant news available.
US02	View News Item	High	As a User, I want to access a single News Item so that I can read a more detailed version of it.
US03	Search	High	As a User, I want to search for a specific category, comment or news item so that I can find that information quicker.
US04	View News Item Comments	Medium	As a User, I want to view the comments of each news item, so that I can know detailed peoples opinion about that news item.
US05	View Other Users' Profiles	Medium	As a User, I want to view the profiles of other people, so that I can check their reputation, and news and comment history.
US06	View News Item Category	Medium	As a User, I want to view which categories the news item belongs to, so that I can quickly know what is it about.
US07	View Recent News Feed	Medium	As a User, I want to sort the news by most recent so I can have access to the newest posts.
US08	About Us	Medium	As a User, I want to have a place where I can read information about the platform and its features so that I can find anything about it.
US09	Contacts	Medium	As a User, I want to have a access to the contacts of the responsibles of the platform so that I can ask for informations or report issues to the developers.

Table 2: User's user stories

2.2 Visitor

Identifier	Name	Priority	Description
US10	Sign-in	High	As a Visitor, I want to be able to authenticate so that I can have access to a lot of new features in the platform.
US11	Sign-up	High	As a Visitor, I want to be able to create an account in the system so that I can authenticate and have my own profile.

Identifier	Name	Priority	Description
US12	Recover Password	Medium	As a Visitor, I want to be able to recover my password, so that I can access my account in case I have forgotten the password for it.

Table 3: Visitor's user stories

2.3 Authenticated User

Identifier	Name	Priority	Description
US13	Create News Item	High	As an Authenticated User, I want to create and publish a news item, so that it becomes available to other users.
US14	Sign-out	High	As an Authenticated User, I want to sign-out from my account, so that I can end the login session.
US15	Edit Profile	High	As an Authenticated User, I want to edit my profile so that I can keep my personal information updated.
US16	View Personal Profile	High	As an Authenticated User, I want to view my user profile so that I can check my post and comment history, personal information and have an option to edit it.
US17	View User News Feed	High	As an Authenticated User, I want to view a custom news feed so that I can have access to all the news of the people and categories that I am following.
US18	Create a Comment	Medium	As an Authenticated User, I want to create and publish a comment, so that my opinion becomes available for other users.
US19	Vote on News Item	Medium	As an Authenticated User, I want to like or dislike a news item, so that I can declare my opinion on it.
US20	Remove Vote on News Item	Medium	As an Authenticated User, I want to remove my vote on a news item, so that it is removed from the platform.
US21	Vote on Comment	Medium	As an Authenticated User, I want to like or dislike a comment, so that I can declare my opinion on it.
US22	Remove Vote on Comment	Medium	As an Authenticated User, I want to remove my vote on a comment, so that it is removed from the platform.
US23	Delete Account	Medium	As an Authenticated User, I want to be able to delete my account so that I can delete my personal data from the platform when I stop using it.
US24	Follow categories	Medium	As an Authenticated User, I want to follow categories so I can choose to view the categories of my best interest.

Identifier	Name	Priority	Description
US25	Unfollow categories	Medium	As an Authenticated User, I want to unfollow categories so I can stop viewing categories I'm no longer interested in.
US26	Follow Users	Medium	As an Authenticated User, I want to follow other people's profiles so that I can easily access their posts.
US27	Unfollow Users	Medium	As an Authenticated User, I want to unfollow other people's profiles so that I can stop viewing news from people that I'm no longer interested in.
US28	Profile Picture	Medium	As an Authenticated User, I want to edit my own profile picture so that others can see who am I when visiting my profile or viewing my news posts and comments.
US29	Answer a Comment	Low	As an Authenticated User, I want to answer other people's comments so that I can comment on other people's point of view.
US30	Save News Item	Low	As an Authenticated User, I want to be able to save a news item so I can keep track of my favorite news.
US31	Apply to an administrator account	Low	As an Authenticated User, I want to apply for an Administrator Account so that I can become an administrator.
US32	Report	Low	As an Authenticated User, I want to report to the administrator news items, users, or comments that are not respecting me or others.

Table 4: Authenticated User's user stories

2.4 News Author

Identifier	Name	Priority	Description
US33	Edit News Item	Medium	As a News Author, I want to edit one of my published articles, so that I can correct/update said article.
US34	Delete News Item	Medium	As a News Author, I want to remove one of my published articles, so that it disappears from the platform.
US35	News Vote Notification	Medium	As a News Author, I want to receive a notification whenever someone votes on a news item I posted, so that I'm aware of its popularity.
US36	News Comment Notification	Medium	As a News Author, I want to receive a notification whenever someone comments on one of my news items, so that I can read it immediately.

Table 5: News Author's user stories

2.5 Comment Author

Identifier	Name	Priority	Description
US37	Edit Comment	Medium	As a Comment Author, I want to edit one of my published comments, so that I can correct/update said comment.
US38	Delete Comment	Medium	As a Comment Author, I want to remove one of my published comments, so that it disappears from the platform.
US39	Comment Vote Notification	Medium	As a Comment Author, I want to receive a notification whenever someone votes on a comment I posted, so that I'm aware of its popularity.

Table 6: Comment Author's user stories

2.6 Administrator

Identifier	Name	Priority	Description
US40	Administer User Accounts	High	As an Administrator, I want to search, view, edit and create user accounts so that I can manage them accordingly.
US41	Manage Categories	Medium	As an Administrator, I want to manage categories so that I can add or delete them accordingly.
US42	Manage User Accounts	Medium	As an Administrator, I want to manage user accounts so that the users have access to the platform only when they comply with the guidelines.
US43	Delete User Account	Medium	As an Administrator, I want to delete user accounts so that if a user in question disobeys the guidelines completely he can't disturb the forums anymore in that account.
US44	Manage Content	Low	As an Aministrator, I want to manage users content so that no forbidden content is in the platform.
US45	Manage User Reports	Low	As an Administrator, I want to manage the reports sent by the users so that I can verify if the reports are really disrespecting the guidelines.
US46	Manage Categories Proposals	Low	As an Administrator, I want to manage category proposals so that I can accept or reject the categories proposed by other users.
US47	Manage Admin appplications	Low	As an Administrator, I want to be able to accept or decline admin applications so that I can make sure the admins are a restrict group.

Table 7: Administrators's user stories

3. Supplementary Requirements

This section contains the business rules, technical requirements and restrictions of the project.

3.1 Business Rules

Identifier	Name	Description
BR01	User Reputation	User reputation should be derived from the number of likes and dislikes received by a user on their posts and comments.
BR02	Deleting Posts and Comments	A post or comment cannot be deleted by its author if it has likes or comments.
BR03	Account Deletion	On account deletion, posts, likes, dislikes and comments should be kept in the platform but marked as anonymous.
BR04	Category on posts	To post a news item, the author must select at least one category.
BR05	Vote/Comment on Own Items	A news item or comment author has the ability to vote and comment on their own items.
BR06	Date of Comments	The date of comments must be after the dates of the news item they are refering to

Table 8: Business rules

3.2 Technical Requirements

Identifer	Name	Description
TR01	Performance	The system should have response times shorter than 2s to ensure the user's attention.
TR02	Robustness	The system must be prepared to handle and continue operating when runtime errors occur.
TR03	Scalability	The system must be prepared to deal with the growth in the number of users and their actions.
TR04	Accessibility	The system must ensure that everyone can access the pages, regardless of whether they have any handicap or not, or the Web browser they use.
TR05	**Usability**	**The system should be intuitive and easy to use.** **Viewing the project as a collaborative news website, any user should be able to use it regardless of background or experience.**

Identifer	Name	Description
TR06	**Database**	**The PostgreSQL database management system must be used.** **Considering the news, user information, comments and votes that are integral to the website as well as their relations to each other, it is important to develop and utilize a robust and well thought out database to accommodate those needs.**
TR07	**Security**	**The system must protect the users information from unauthorised access as well as employ authentication and verification features.** **Since we are working with a platform with user accounts we consider it is very important to keep the users personal data secure.**

Table 9: Technical Requirements

3.3 Restrictions

Identifier	Name	Description
C01	Deadine	The system should be ready by the week of 02/01/2023 to be submitted for evaluation.

Table 10: Project Restrictions

A3: Information Architecture

This artifact serves as an overview of the planned information architecture of the system.

1. Sitemap

Our system is built around 5 main areas. The Static Pages, which provide information about the platform. The News Pages, which envelop all the news items, news feeds and news item creations. The Visitor Pages, for logging in and signing up. The Authenticated User Pages, for the user profile, saved news and report user pages. And the Admin Pages, housing admin specific pages and utilities.
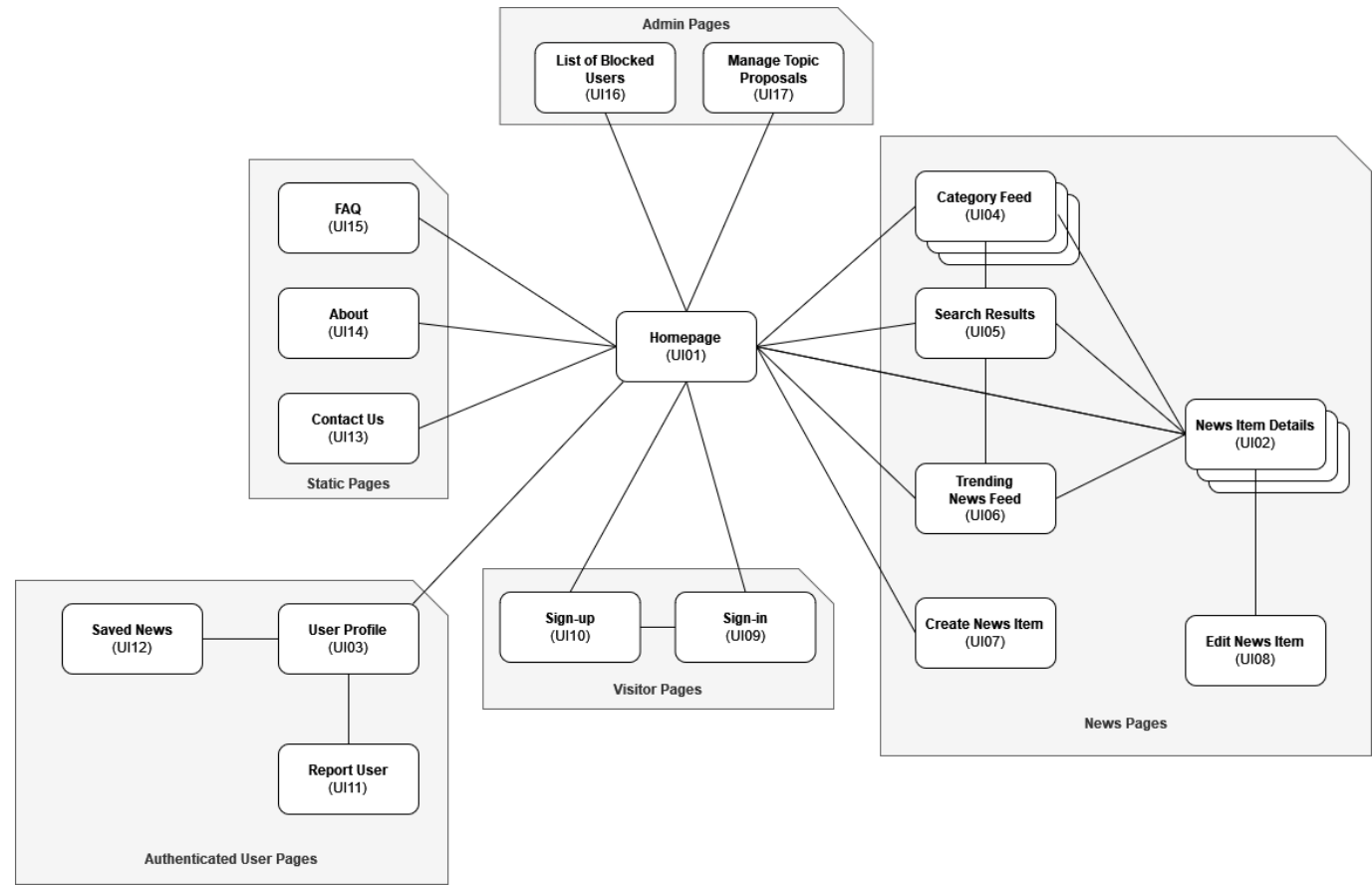
Figure 2: Sitemap

2. Wireframes

Below are presented wireframes for the Homepage(UI01), News Item Details page(UI02) and User Profile Page(UI03).
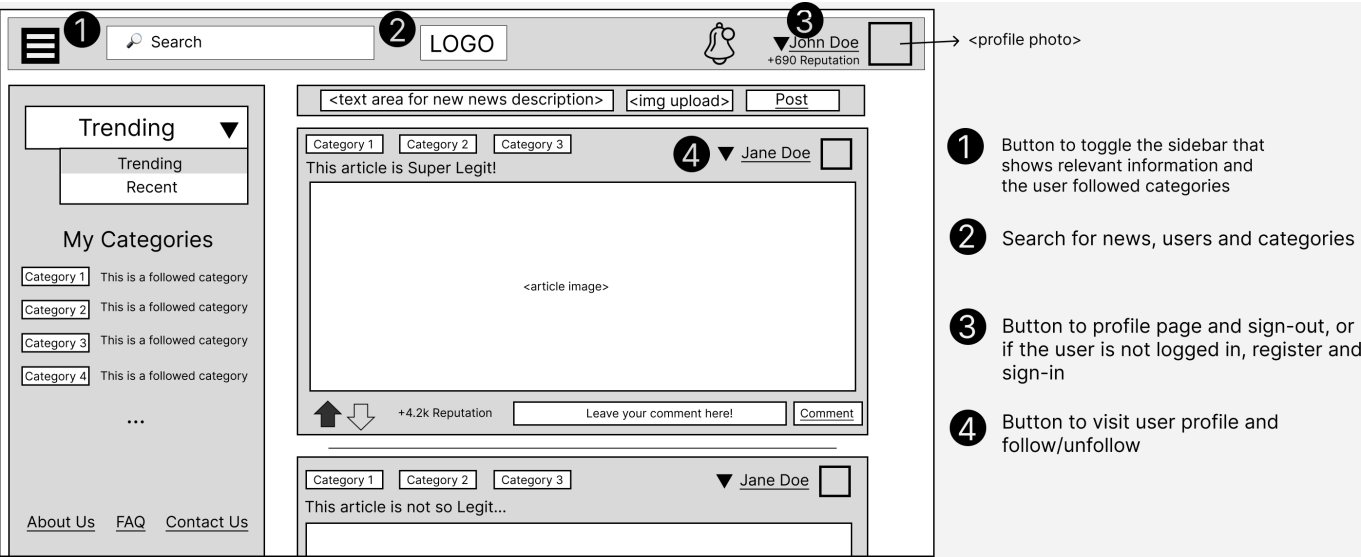

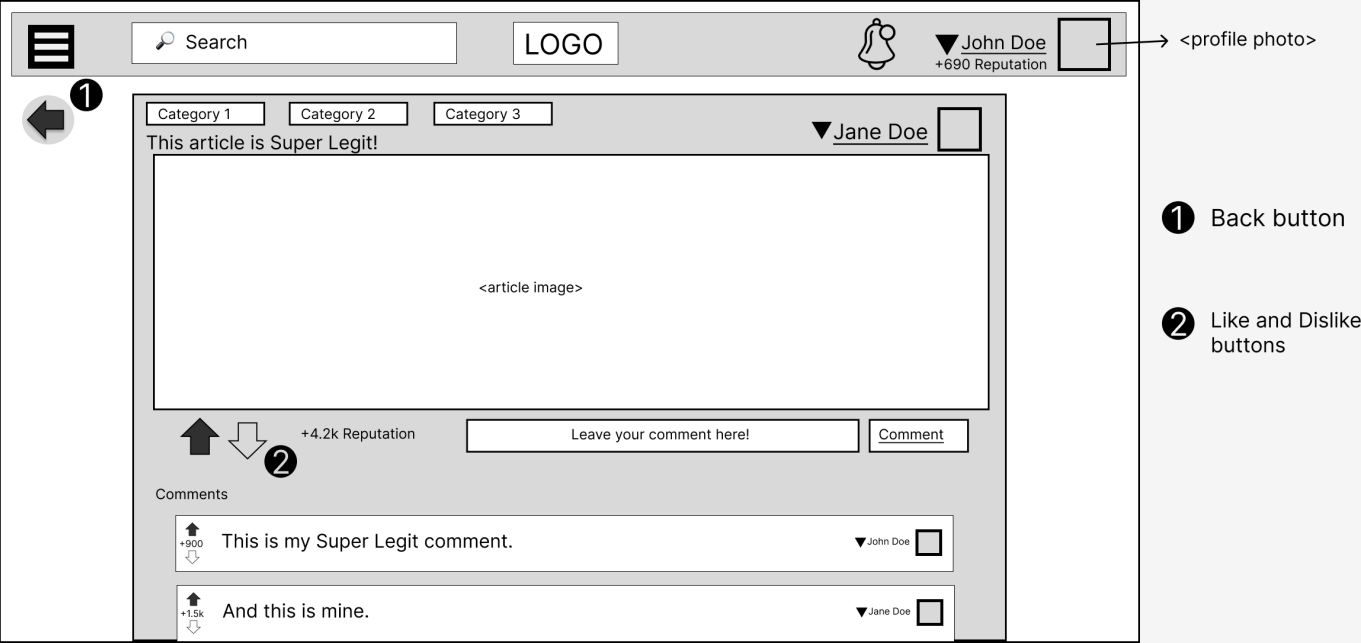Figure 3: Homepage(UI01) wireframe

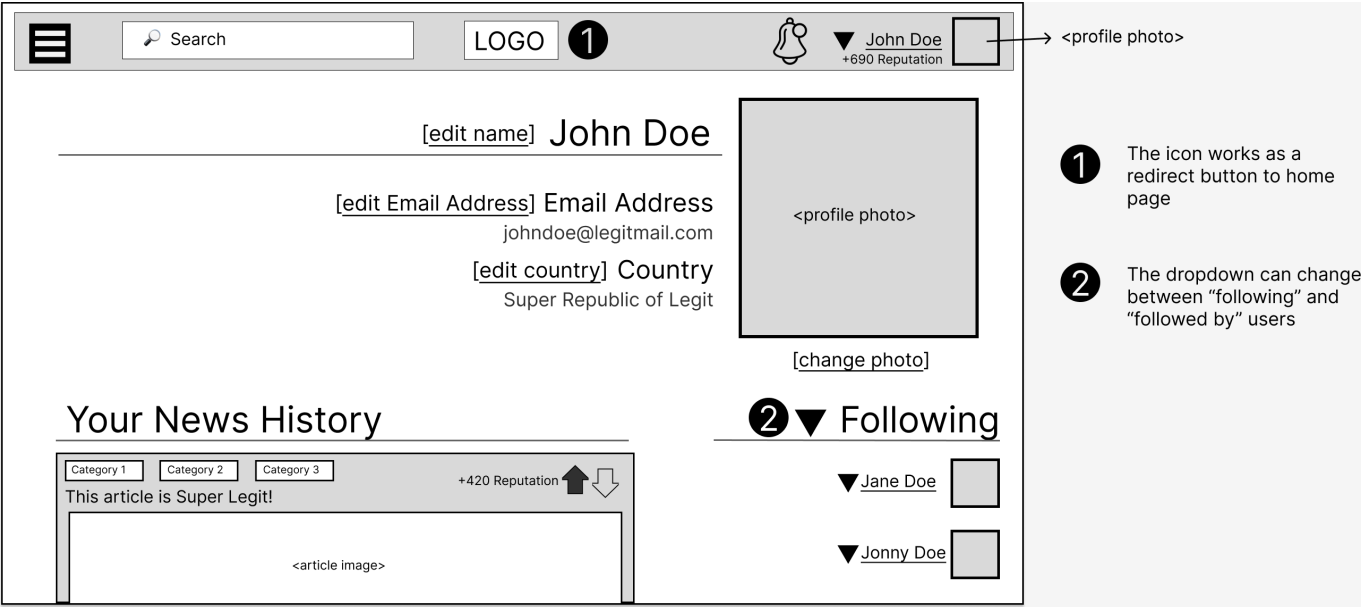Figure 4: News Item Details(UI02) wireframe

Figure 5: User Profile(UI03) wireframe

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