

ER - Requirements Specification

This project intends to build a Collaborative news website, where anyone can read, publish news and share them with friends, while avoiding the spread of fake news.

A1 - XEKKIT

XEKKIT intends to be an information system with a web interface for a collaborative news management platform. Nowadays, it is crucial for people to search trusted news sources, minimizing the spread of fake news.

In this context we decided to create our project, a Collaborative News website where freelance journalists can earn reputation with their hard work and help keep the community informed about local and world news.

The platform will have an adaptive design and a detailed navigation system by arranging the news by themes. Besides text, title and a picture, each news will have keywords that will allow the user to quickly find what he needs through the search bar and a comments section, where other users can share their opinion about the article. To achieve our goal of preventing the spread of fake news, we intend to implement a voting system. Higher votes means more trustable. This system will allow users to not only review the news they read but also find which one's are trusted by the community. Comments will also have a voting system. This system allows for each user to have a public reputation score, based on the news and comments they published. Users with very high reputation can request to be a partner. Partners are specially valued in the community and as such their news are considered more relevant and appear first in the homepage. Upvotes casted by partners are also more valuable than a normal upvote. To publish, comment and upvote, the user must be authenticated. Some users have access to moderator privileges, allowing them to remove news they find unsuitable for the website and ban users that disrespected community guidelines. Furthermore, each user can follow another and receive the news the latter publishes in a dedicated area.

Users will be distributed in three groups with different permissions: moderators, users and guests. A moderator will have all the privileges of access and modification. A user can publish, comment and vote, follow and be followed. A guest can only search and read the news.

A2 - Actors and User Stories

2.1 Actors

For the Collaborative News system, the actors are represented in Figure 1 and described in Table 1.

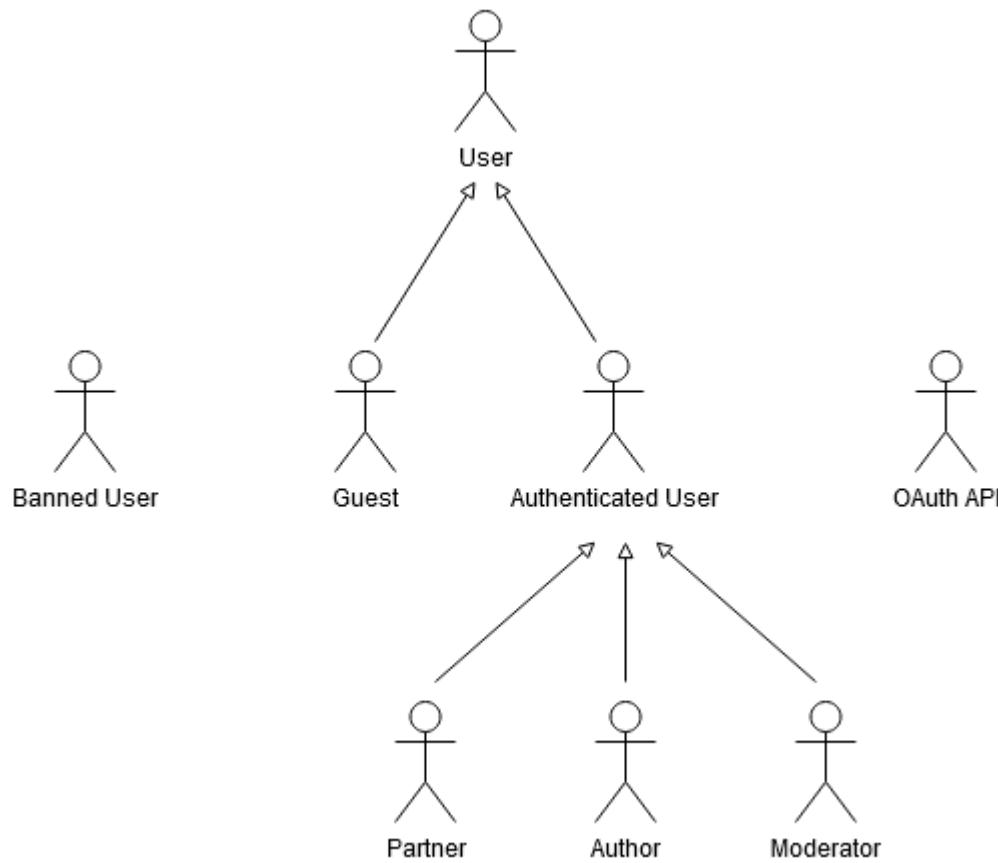


Figure 1: Actors

Identifier	Description	Examples
User	Generic user that can read articles	n/a
Guest	Unauthenticated user that can register itself (sign-up) or sign-in in the system	n/a
Authenticated User	Authenticated User that can create articles, comment and vote	n/a
Author	Authenticated User that created an article or comment and can delete (maybe edit) such article or comment	n/a
Moderator	Authenticated user that is responsible for the management of users and for some specific supervisory and moderation functions, such as remove third-party articles or comments and ban users	n/a
Partner	Authenticated User with higher reputation	n/a
Banned User	User that is no longer a generic user (can no longer authenticate with his email)	n/a
OAuth API	External OAuth API that can be used to register or authenticate into the system	Google

Table 1: Actor's Description

2.2 User Stories

For the Collaborative News system, consider the user stories that are presented in the following sections.

2.2.1 User

Identifier	Name	Priority	Description
US01	See News Feed	High	As an <i>User</i> , I want to access the news feed, so that I can see the top news for each topic.
US02	See "Hot" Topics	High	As an <i>User</i> , I want to acced the "hot" topics section, so that I can see the news that have more interactions in a short time period
US03	See "Recent" Topics	High	As an <i>User</i> , I want to acced the "recent" topics section, so that I can see the news were published recently
US04	Search Using Keywords	High	As an <i>User</i> , I want to search news and user profiles, so that I can find news/users related to the keywords used on the search.
US05	Sign-out	High	As an <i>User</i> , I want to sign-out from my account, so that I no longer have user privileges.
US06	Filter News	High	As an <i>User</i> , I want to be able to filter the news that show up after I search for a certain keywors, so that I can read the news that talk about what I wanted to read more about
US07	View Profiles	High	As an <i>User</i> , I want to be able to view a profile, so that I can see the news posted by a certain user and his main information (username, achievements, date of the creation of the account)
US08	Create Report	Medium	As an <i>User</i> , I want to report a(n) user/news/comment, so that the moderators can manage users/news/comments that go against the community guidelines.
US09	Consult FAQ	Low	As an <i>User</i> , I want to see some FAQ, so that I can get fast answers to my questions.
US010	Consult Contact	Low	As an <i>User</i> , I want to consult contacts, so that I can see a contact I might need.
US011	See About	Low	As an <i>User</i> , I want to access the about page, so that I can see the website's description.

Table 2: User's User Stories

2.2.2 Guest

Identifier	Name	Priority	Description
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Identifier	Name	Priority	Description
US11	Sign-in	High	As a <i>Guest</i> , I want to authenticate into the system, so that I can access privileged information.
US12	Register	High	As a <i>Guest</i> , I want to register into the system, so that I can authenticate myself into the system.
US13	Sign-in using Google OAuth API	Low	As a <i>Guest</i> , I want to sign-in through my Google account, so that I can authenticate myself into the system.
US14	Register using Google OAuth API	Low	As a <i>Guest</i> , I want to register a new account linked to my Google account, so that I can access privileged information.

Table 3: Guest's User Stories

2.2.3 Authenticated User

Identifier	Name	Priority	Description
US21	Personalized Feed	High	As an <i>Authenticated User</i> , I want to have a personalized feed, so that the news that are presented to me when I login are according to my preferences
US22	Create News	High	As an <i>Authenticated User</i> , I want to create News, so that it is publicly available.
US23	Create/Publish Comment	High	As an <i>Authenticated User</i> , I want to post a comment on News, so that I can manifest my opinion.
US24	View Profile	High	As an <i>Authenticated User</i> , I want to see my profile, so that I can verify if all the information is correct.
US25	Manage Profile	High	As an <i>Authenticated User</i> , I want to change my profile information (including my password), so that it can stay updated.
US26	Follow/Unfollow Other User	High	As an <i>Authenticated User</i> , I want to follow/unfollow other user, so that his posts appear/stop appearing on my home page.
US27	Sign Out	High	As an <i>Authenticated User</i> , I want to sign out of the system, so that I can become a guest
US28	Vote	High	As an <i>Authenticated User</i> , I want to upvote/downvote (and even remove/change my vote on) any news/comments, so that I can manifest my like/dislike.
US29	Delete Profile	High	As an <i>Authenticated User</i> , I want to be able to delete my profile, so that my profile page and account no longer exists.

Identifier	Name	Priority	Description
US210	Request Partner label	Medium	As an <i>Authenticated User</i> , I want to be able to create a request, so that I become a Partner.

Table 4: Authenticated User's User Stories

2.2.4 Author

Identifier	Name	Priority	Description
US31	Edit News	High	As a <i>Author</i> , I want to edit a post I previously posted, so that I can keep the information updated.
US32	Remove News	High	As a <i>Author</i> , I want to remove a post I previously posted, so that it is no longer publicly available.
US33	Remove comment	High	As a <i>Author</i> , I want to remove a comment I previously posted, so that it is no longer publicly available.
US34	Edit comment	Medium	As a <i>Author</i> , I want to edit a comment I previously posted, so that I can keep the comment updated.

Table 5: Author's User Stories

2.2.5 Moderator

Identifier	Name	Priority	Description
US41	Remove Post from other User	High	As a <i>Moderator</i> , I want to remove a post from another user, so that I can improve the reliability of the news published in the website.
US42	Remove Comment from another User	High	As a <i>Moderator</i> , I want to remove a comment from another user, so that I can improve the reliability of the news published in the website.
US43	Ban User	Medium	As a <i>Moderator</i> , I want to be able to ban a user from the website, so the user won't be able to see anything on our website while logged in.
US44	Verify Partner	Medium	As a <i>Moderator</i> , I want to be able to verify a user, so that the user reaches a bigger audience by becoming a Partner.
US45	View Reports	Medium	As a <i>Moderator</i> , I want to be able to see all reports made by other users, so that I can decide how I'm gonna act on the report.
US46	Act on Reports	Medium	As a <i>Moderator</i> , I want to be able to act on a report, so that I can delete news/comments or ban users.

Identifier	Name	Priority	Description
US47	View Partner Requests	Medium	As a <i>Moderator</i> , I want to be able so see all partner requests made by other users, so that I can decide how I'm gonna act on the requests.
US48	Act on Partner Requests	Medium	As a <i>Moderator</i> , I want to be able act on a partner requests, so that I can give the achievement of "Partner".
US49	Remove Partner	Low	As a <i>Moderator</i> , I want to be able to remove a partner without a user request, so that the partner no longer reaches a bigger audience with his posts.
US410	Add FAQ	Low	As a <i>Moderator</i> , I want to be able to add a new Question and the respective Answer to the FAQ, so that other Users can see it in the FAQ.

Table 6: Moderator's User Stories

2.2.6 Partner

Identifier	Name	Priority	Description
US51	Stop Being a Partner	Medium	As a <i>Partner</i> , I want to be able to stop being a partner, so that my news no longer appear in the top of the user's feed.

Table 7: Partner's User Stories

2.2.7 Banned User

Identifier	Name	Priority	Description
US61	Unban Appeal	Low	As a <i>Banned User</i> , I want to be able to unban appeal, so that I can recover my banned account

Table 8: Banned User's User Stories

2.3 Supplementary Requirements

This annex contains business rules, technical requirements and other non-functional requirements on the project.

2.3.1 Business Rules

Identifier	Name	Description
BR01	Reputation System	Every Authenticated User has a reputation based on the upvotes or downvotes they got and gave. The minimum reputation value is 0.

Identifier	Name	Description
BR02	Partner	A User is only able to request the label of Partner when it reaches a reputation of 100,000.
BR03	Unable to Self-vote	An Authenticated User can't vote on his own news/comments.
BR04	User maximum reputation per day received by voting	An Authenticated User can only receive a maximum of 5 points per day related to voting on other user's news/comments.
BR05	Authenticated User Upvoting News	Authenticated User upvotes on news give 1 reputation point to the voting user and 5 reputation votes to the creator of the news voted on.
BR06	Authenticated User Downvoting News	Authenticated User downvotes on news give 1 reputation point to the voting user and removes 5 reputation votes to the creator of the news voted on.
BR07	Authenticated User Upvoting Comment	Authenticated User upvotes on comments give 1 reputation point to the voting user and 1 reputation vote to the creator of the comment voted on.
BR08	Authenticated User Downvoting Comment	Authenticated User downvotes on comments give 1 reputation point to the voting user and removes 1 reputation vote to the creator of the comment voted on.
BR09	Partner Upvoting	Partner upvotes give 1 reputation point to the voting user and 10 reputation votes to the creator of the news/comment voted on.
BR10	Partner Downvoting	Partner downvotes give 1 reputation point to the voting user and removes 10 reputation votes to the creator of the news/comment voted on.
BR11	Deleted Profile	When an Authenticated User is deleted, his posts/comments/votes stay in the database, but the user profile page is deleted.
BR12	Minimum age	The minimum age for a user to be registered is 13 years old.
BR13	Partner's News Priority	A Partner has a bigger probability to appear in the top of the user's feed
BR14	Partner Achievement	Every Partner has a badge associated to his account that shows that he is a partner
BR15	Banned User Failed Login	A Banned User can't login into his account
BR16	Banned Email Failed Registration	A User that was previously banned can't register into a new account using the email associated with the banned account
BR17	Unable to Self-Follow/Unfollow	An Authenticated User can't follow/unfollow himself

Identifier	Name	Description
BR18	Visualization System	Each news has a certain "visualization" score, that is used to sort the news in the user's feed (higher "visualization" score news have a bigger priority)
BR19	Valorization of Recent News	Having two news, a recent one and an old one, if they have the same reputation, the recent one has a higher "visualization" score than the old one.

Table 9: Business Rules

2.3.2 Technical Requirements

Identifier	Name	Description
TR01	Availability	The system must be available 99 percent of the time in each 24-hour period.
TR02	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.
TR03	Usability	The system should be simple and easy to use.
TR04	Performance	The system should have response times shorter than 2s to ensure the user's attention.
TR05	Web application	The system should be implemented as a Web application with dynamic pages (HTML5, JavaScript, CSS3 and PHP).
TR06	Portability	The server-side system should work across multiple platforms (Linux, Mac OS, etc.).
TR07	Database	The PostgreSQL 9.4 database management system must be used.
TR08	Security	The system shall protect information from unauthorised access through the use of an authentication and verification system.
TR09	Robustness	The system must be prepared to handle and continue operating when runtime errors occur.
TR10	Scalability	The system must be prepared to deal with the growth in the number of users and their actions.
TR11	Ethics	The system must respect the ethical principles in software development (for example, the password must be stored encrypted to ensure that only the owner knows it).

We believe the most critical requirements are that our system should be easy to use, so that users don't get bored and leave when looking for something, should also be robust so that intentional (or even unintentional) invalid inputs don't crash the entire system and finally it should respect the ethical principles in software development so that, in case someone manages to hack us, sensible data remains encrypted.

Table 10: Technical Requirements

2.3.3 Restrictions

Identifier	Name	Description
C01	Deadline	End of semester.

Table 11: Restrictions

A3 - User Interface Prototype

This user interface prototype has the main goals of helping to identify and analyse the user requirements and preview the user interface of the website to be developed.

This artifact includes an overview of the interface and common features, a sitemap and the identification and description of the main user interactions (UI) with the system.

3.1 Interface and common features

Kekkit is a web application based on HTML5, JavaScript and CSS. The user interface was implemented using the Bootstrap framework.

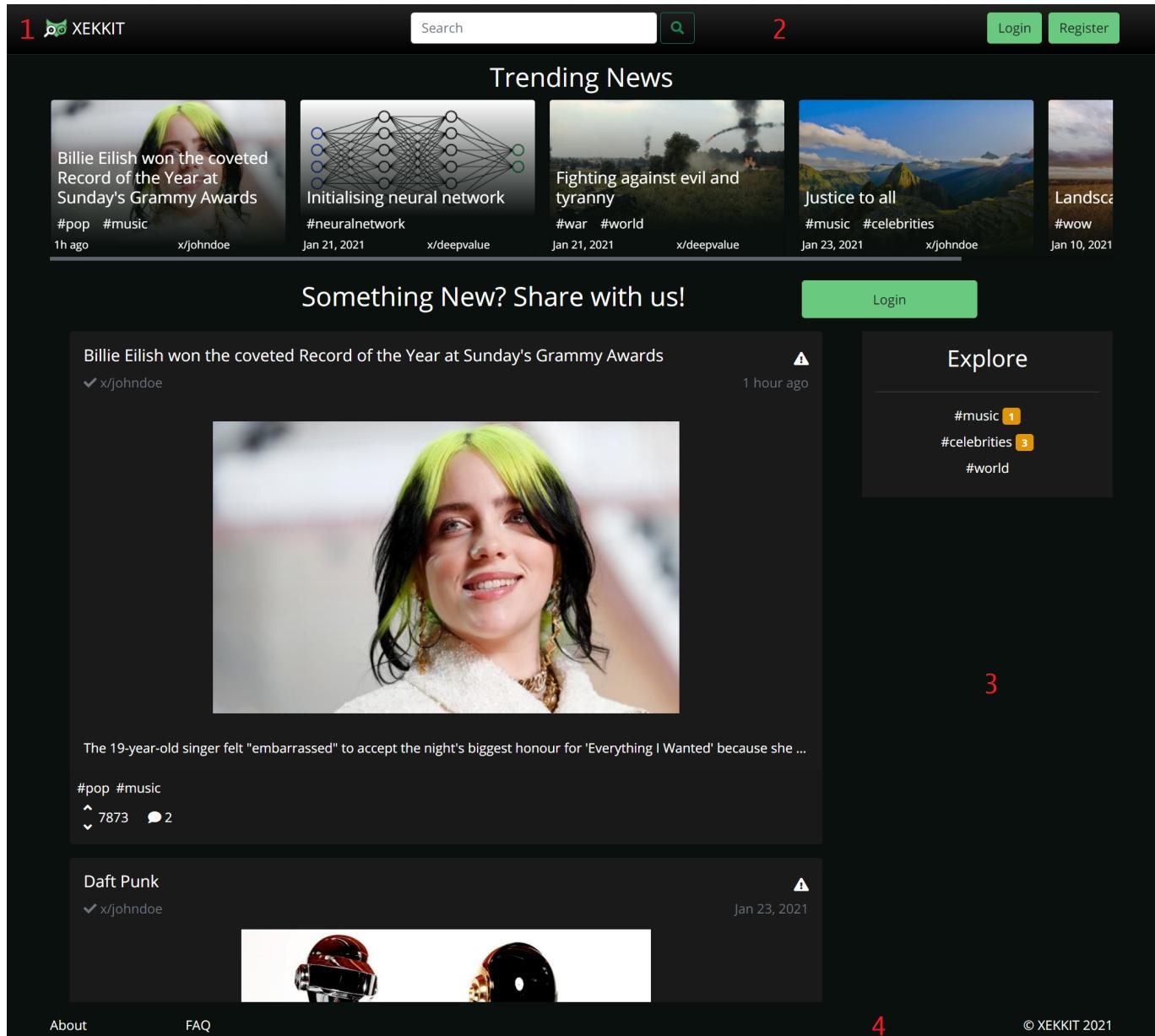


Figure 1: Interface's guidelines.

1. Logo
2. Navbar
3. Content
4. Footer

In this figure some characteristics common to all the pages are highlighted:

The web design implemented has a fully responsive flow which allows the web page layout to suit any screen size and resolution greater than or equal to a 4" smartphone. The common links to the various pages maintain their position to make the user experience consistent. Different sections have clearly distinct styles in order to highlight distinct hierarchies of information and assist with the visual flow.

3.2 Sitemap

The site map gives the team an idea of the website structure and pages hierarchy.

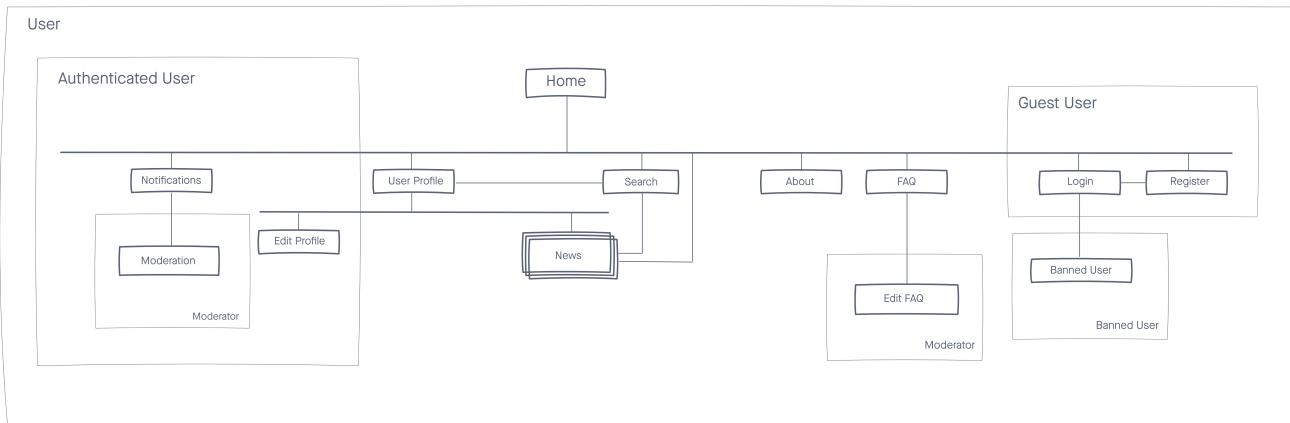


Figure 2: Sitemap.

3.3 Wireflows

Wireflows are presented to represent some of the main user interactions with the website.

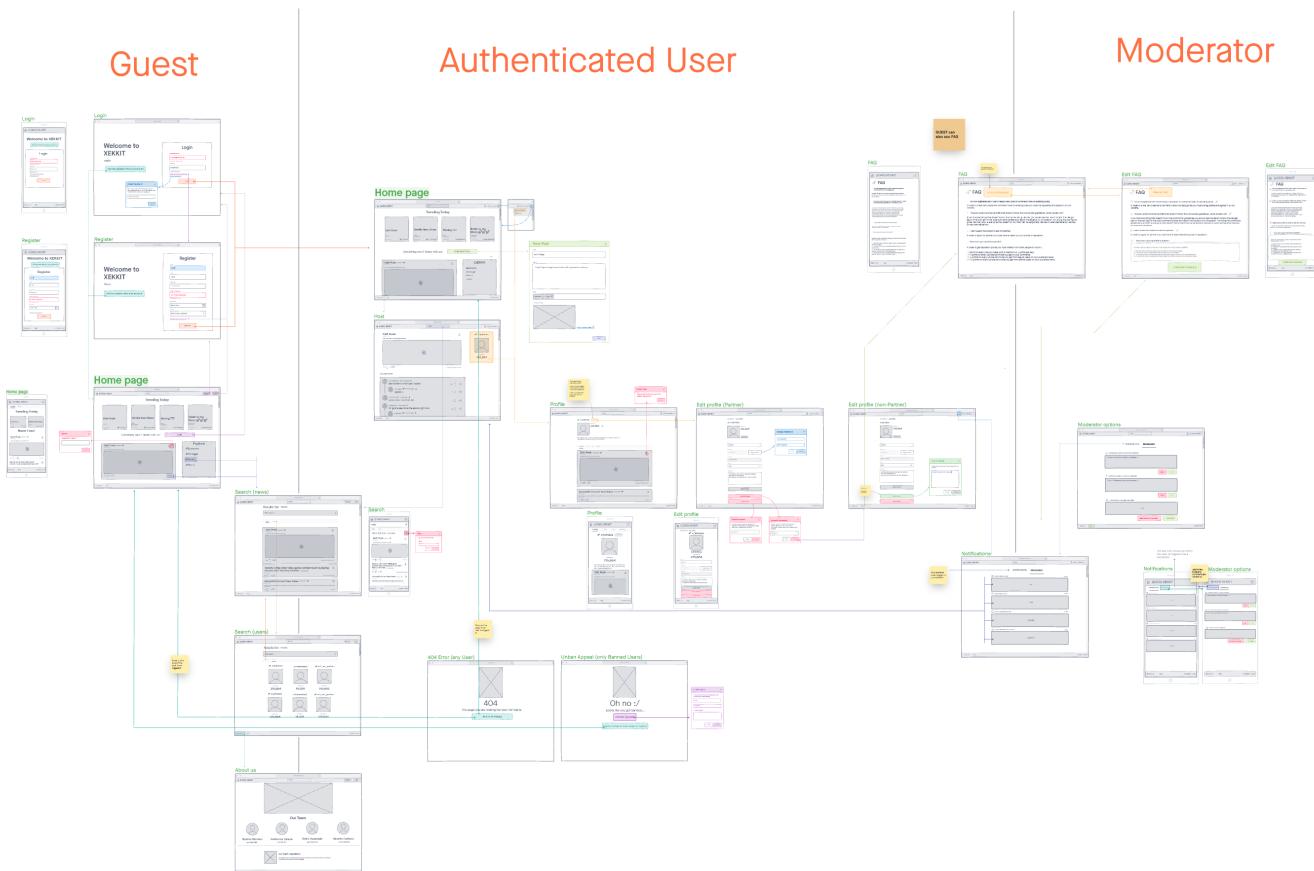


Figure 3: Wireflows.

3.4 Interfaces

Interfaces

UI01: Main

UI02: Main logged in

Interfaces

[UI03: New Post](#)

[UI04: About](#)

[UI05: FAQ](#)

[UI06: FAQ as Moderator](#)

[UI07: Log in](#)

[UI08: Sign Up](#)

[UI09: Post](#)

[UI10: Search](#)

[UI11: Third-Party Profile](#)

[UI12: My Profile](#)

[UI13: Edit Profile](#)

[UI14: Ask For Partner](#)

[UI15: Notifications](#)

[UI16: Moderator Options](#)

[UI17: Banned User](#)

[UI18: Page Not Found](#)

UI01: Main

Main website page where you can consult trending news on top, last news on center and explore some tags on the right side.

Desktop

Mobile

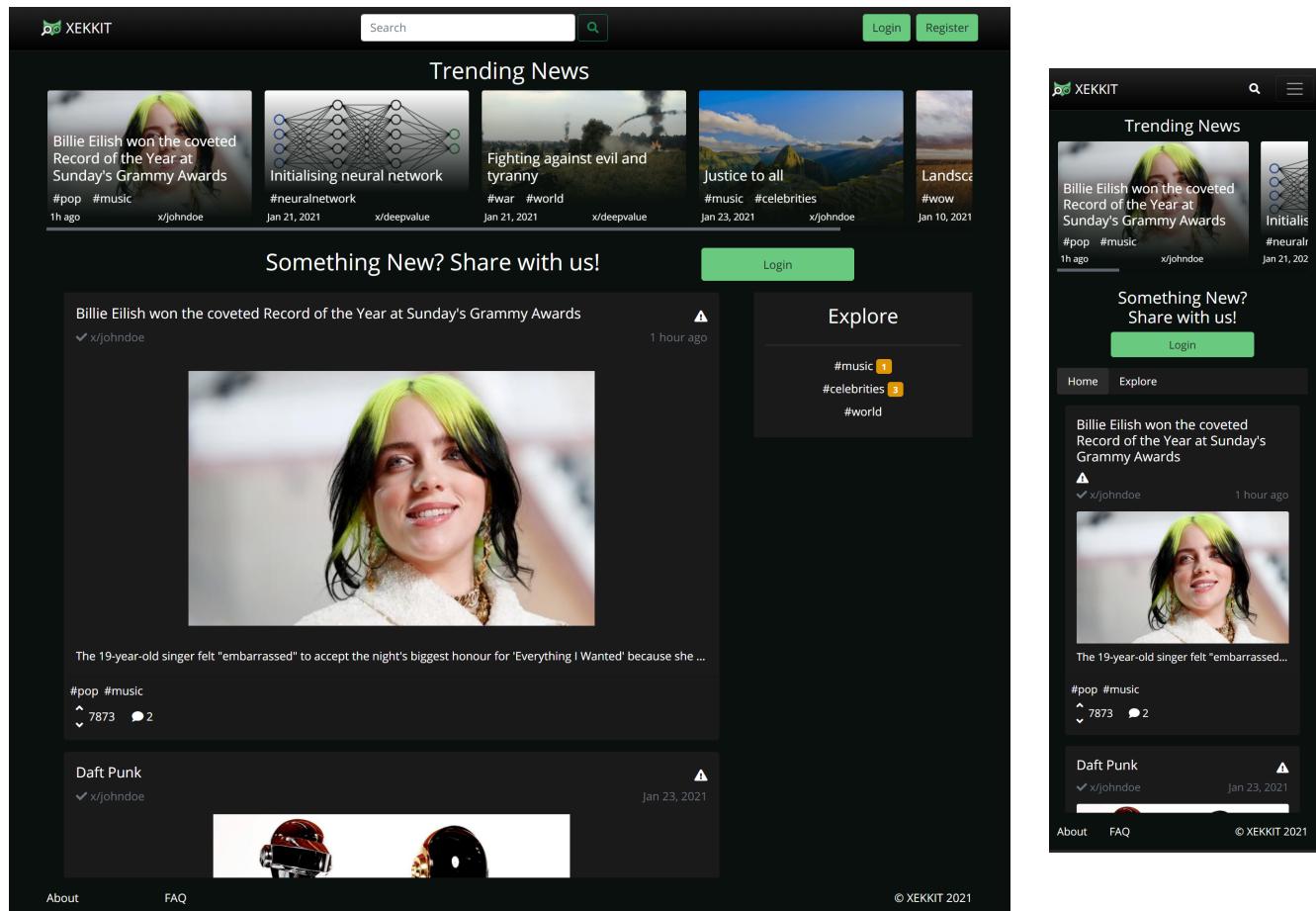
Desktop**Mobile**

Figure 4: Main Page.

UI02: Main logged in

Main website page again with the difference that because of being logged in you can now create a new post. On column Mobile2 you can also see the search bar that appears when you press the search icon on the navigation bar.

Desktop**Mobile1****Mobile2**

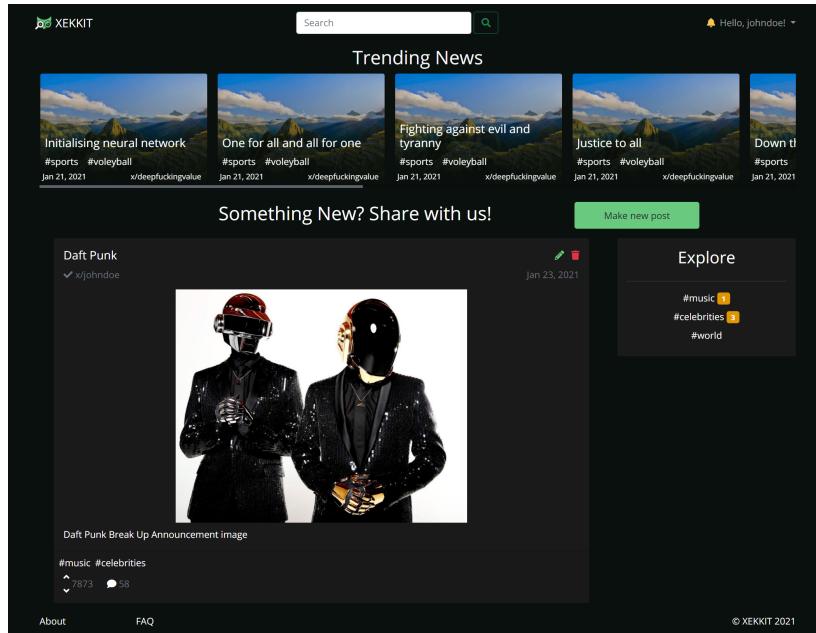
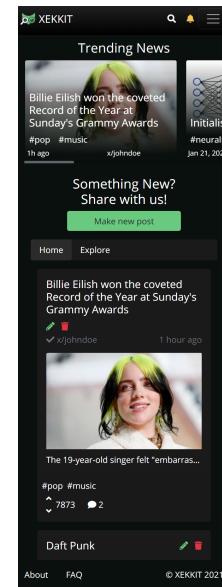
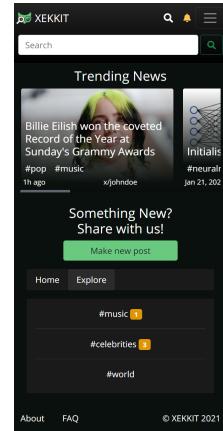
Desktop**Mobile1****Mobile2**

Figure 5: Main Page Logged in.

UI03: New Post

Modal box where you can create a new post when logged in.

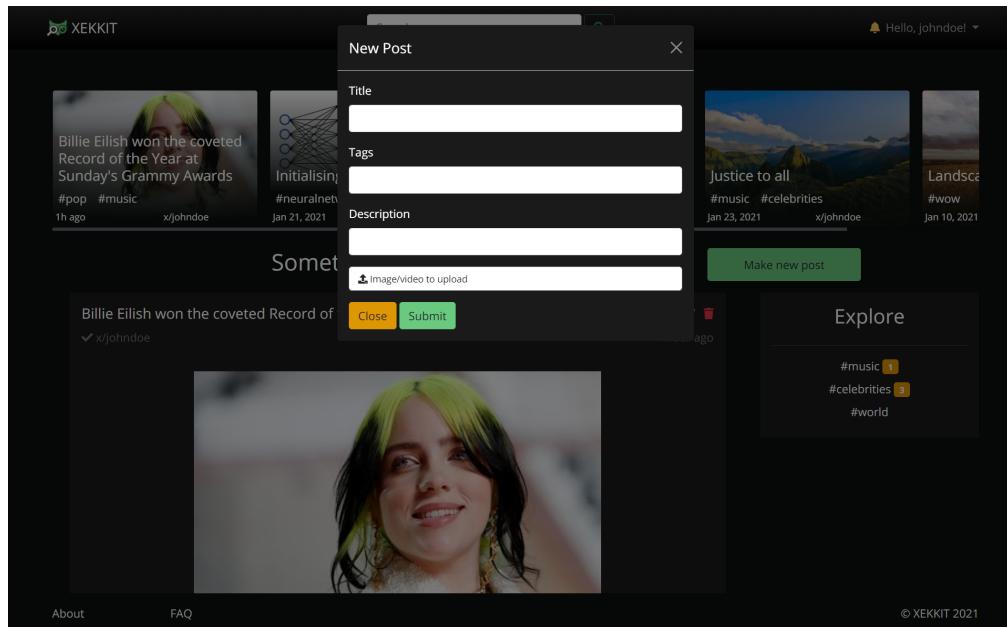
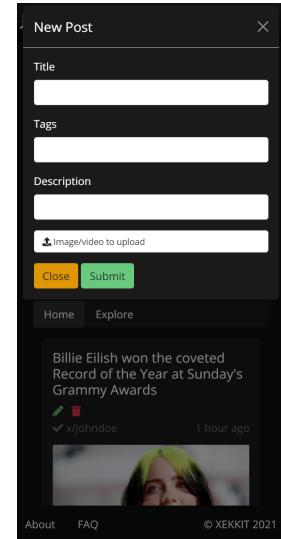
Desktop**Mobile**

Figure 6: New Post and then click on green button "Make new post".

UI04: About

In this page you can see our team and where we got our inspiration to build this website.

Desktop

Our Team

Beatriz Mendes up201806551

Guilherme Calassi up201800157

L. André Assunção up201806140

Ricardo Cardoso up201604686

Our Main Inspiration
The majority of our website structure and concept (including the name, obviously) is based on the famous website [©reddit](#)

Mobile

Our Team

Beatriz Mendes up201806551

Guilherme Calassi up201800157

L. André Assunção up201806140

Ricardo Cardoso up201604686

Our Main Inspiration
The majority of our website structure and concept (including the name, obviously) is based on the famous website [©reddit](#)

Figure 6: About Page.

UI05: FAQ

Here is where you can see some of the most frequently asked questions about our website.

Desktop

FAQ

I'm not registered and I can't make a new post or comment/vote on existing posts.

I found a post/comment/profile that doesn't follow the community guidelines, what should I do?

I can't select the button to ask for partner.

In order to apply for partner you must have at least 100,000 points of reputation.

How can I get reputation points?

Mobile

FAQ

I'm not registered and I can't make a new post or comment/vote on existing posts.

I found a post/comment/profile that doesn't follow the community guidelines, what should I do?

I can't select the button to ask for partner.

In order to apply for partner you must have at least 100,000 points of reputation.

How can I get reputation points?

Figure 7: FAQ Page.

UI06: Edit FAQ as Moderator

Here is where the motherator can edit and add questions to the FAQ page.

Desktop

The screenshot shows the XEKKIT FAQ Moderator interface. At the top, there's a navigation bar with the XEKKIT logo, a search bar, and a greeting 'Hello, johndoe!'. Below the header, a sidebar on the left lists several FAQ entries with expandable sections. On the right, there's a form for adding new questions, including fields for 'Question' and 'Answer', and a green 'Add to FAQ' button. At the bottom, there are links for 'About' and 'FAQ'.

Mobile

The screenshot shows the XEKKIT FAQ Moderator interface on a mobile device. The layout is similar to the desktop version, with a sidebar on the left listing FAQ entries and a main area for adding new questions. The 'Add to FAQ' button is also present. The footer links for 'About' and 'FAQ' are visible at the bottom.

Figure 8: FAQ Moderator.

UI07: Log in

In this page you can authenticate yourself in our website (if you already have an account).

Desktop

The screenshot shows the XEKKIT login page. It features a 'Welcome to XEKKIT' message at the top. Below it is a 'Login' form with fields for 'Username/Email' and 'Password', a 'Remember me' checkbox, and links for 'Don't you have an account?' and 'Lost my password?'. A green 'Login' button is at the bottom right. The footer links for 'About' and 'FAQ' are at the bottom.

Mobile

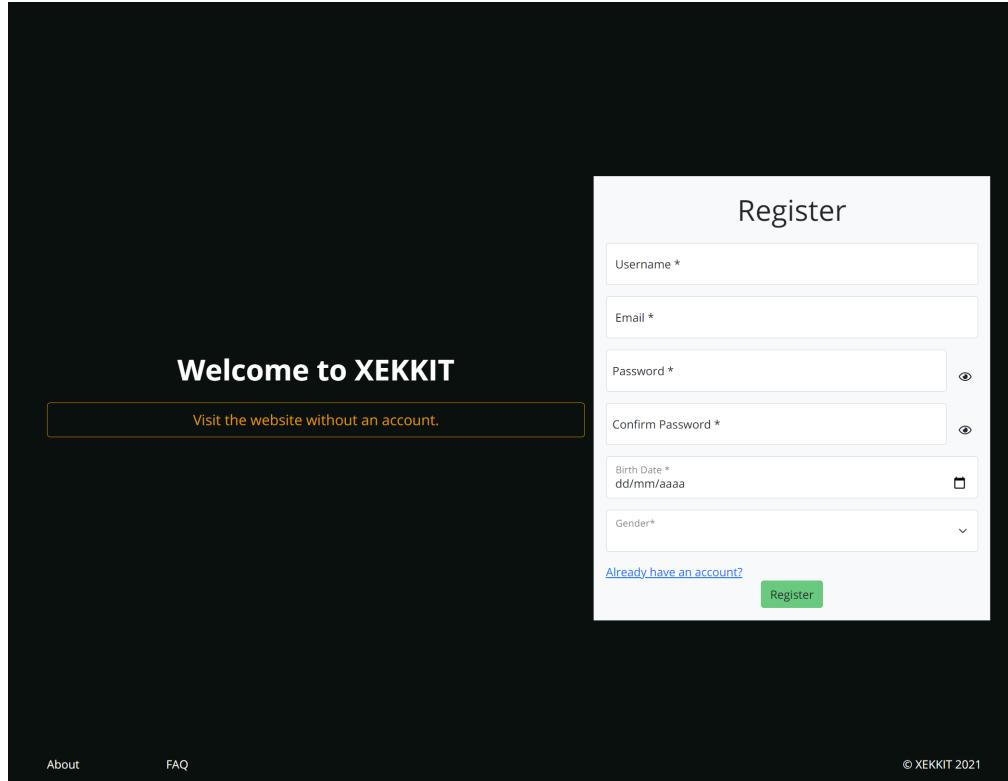
The screenshot shows the XEKKIT login page on a mobile device. It includes a 'Welcome to XEKKIT' message at the top. Below it is a 'Login' form with fields for 'Username/Email' and 'Password', a 'Remember me' checkbox, and links for 'Don't you have an account?' and 'Lost my password?'. A green 'Login' button is at the bottom right. The footer links for 'About' and 'FAQ' are at the bottom.

Figure 10: Log in.

UI08: Sign Up

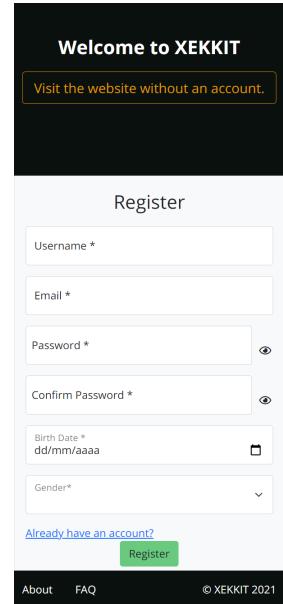
In this page you can create a new account.

Desktop



The desktop version of the sign-up page features a large black background area with the "Welcome to XEKKIT" logo and a "Visit the website without an account." button. In the center, there is a white registration form titled "Register". The form includes fields for "Username *", "Email *", "Password *", "Confirm Password *", "Birth Date *" (with a date picker icon), and "Gender*" (with a dropdown menu icon). Below the form is a link "Already have an account?" and a green "Register" button. At the bottom of the page, there are links for "About" and "FAQ", and a copyright notice "© XEKKIT 2021".

Mobile



The mobile version of the sign-up page has a compact layout. It starts with a black header containing the "Welcome to XEKKIT" logo and a "Visit the website without an account." button. Below the header is a white registration form titled "Register". The form fields are identical to the desktop version: "Username *", "Email *", "Password *", "Confirm Password *", "Birth Date *" (with a date picker icon), and "Gender*" (with a dropdown menu icon). A "Register" button is at the bottom. At the very bottom of the screen, there is a black footer bar with links for "About", "FAQ", and "© XEKKIT 2021".

Figure 11: Sign Up.

UI09: Post

This is the page where single news are presented, with the respective comments below. On desktop version you can see a card with some publisher info, while on mobile you can only see his name (with a link to his profile) on the top of the post card.

If you are the owner of the post you are seeing, you have the option to edit or delete the post, but if you are not the owner a report button will appear instead.

Desktop

Mobile

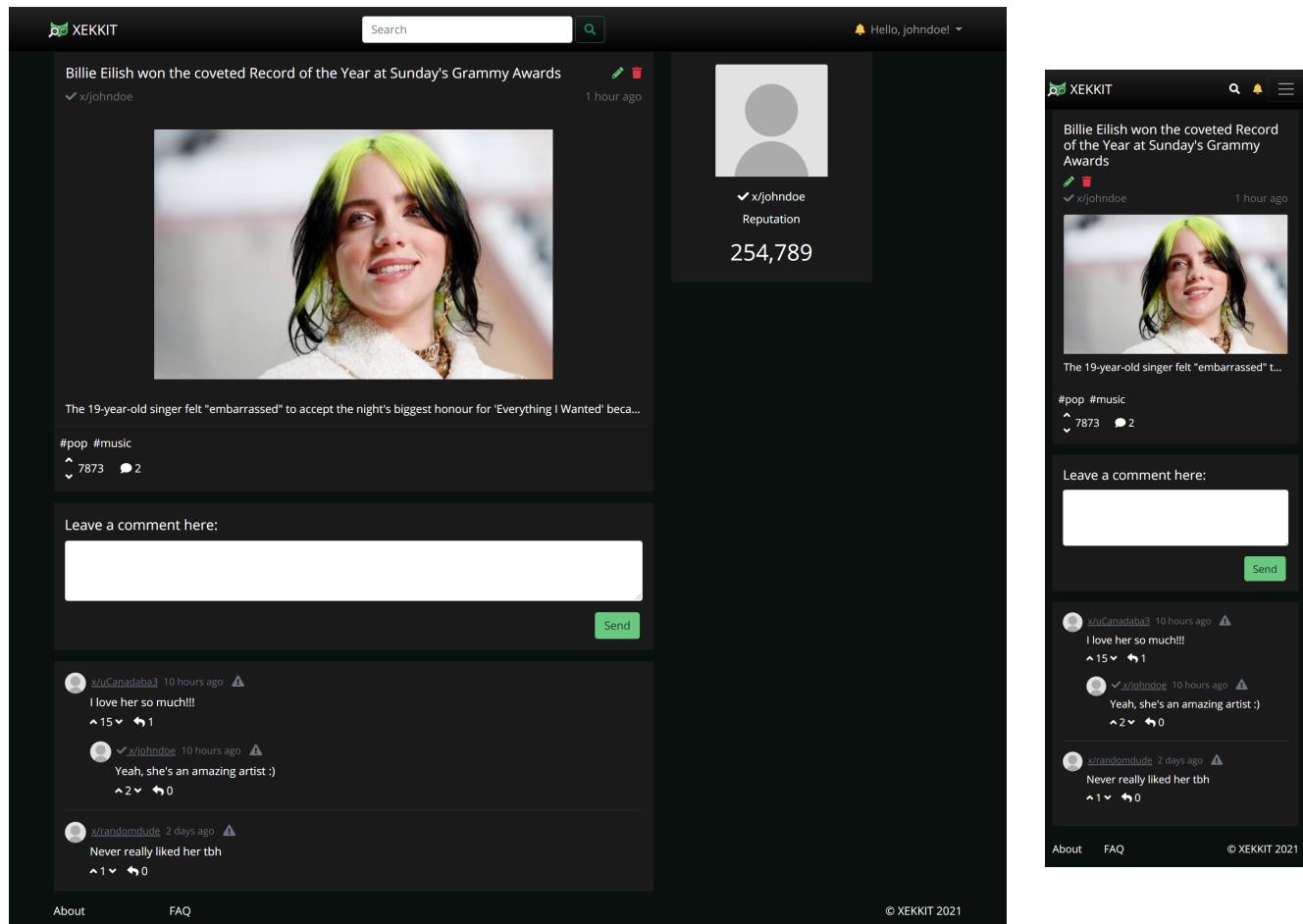
Desktop**Mobile**

Figure 12: Post.

UI10: Search

When you perform a search query (by typing on the serach bar) this is tha page were you land. In here you can filter your search and choose if you want to search for news or for users.

Desktop**Mobile**

Desktop

Results for: music

Billie Eilish won the coveted Record of the Year at Sunday's Grammy Awards
x/john doe 1 hour ago

The 19-year-old singer felt "embarrassed" to accept the night's biggest honour for 'Everything I Wanted' because she was thought Megan Thee Stallion "deserved" it ...
#pop #music
7873 2

Daft Punk
x/john doe Jan 23, 2021

About FAQ © XEKKIT 2021

Mobile

Results for: music

Billie Eilish won the coveted Record of the Year at Sunday's Grammy Awards
x/john doe 1 hour ago

The 19-year-old singer felt "embarrassed..."
#pop #music
7873 2

Daft Punk
x/john doe Jan 23, 2021

About FAQ © XEKKIT 2021

Results for: music

User	Reputation
x/andre	254,789
x/antonio	54,789
x/joaquin	4,789
x/jorge	54,579
x/gabriel	789
x/andrea	989
x/joana	289,452
x/costa	154,789

About FAQ © XEKKIT 2021

Results for: music

User	Reputation
x/andre	254,789
x/antonio	54,789
x/joana	289,452
x/costa	154,789

About FAQ © XEKKIT 2021

Figure 13 and 14: Search.

UI11: Third-Party Profile

This is how you can see other people's profiles. On the desktop version is an example of someone you do not follow, while on mobile version is an example of someone you follow. In this page you can not only see this

user's posted news but also who he follows.

Desktop

Reputation
254,789

Follow

My name is John and I'm a partner example user for this framewhile. My posts are really about any trending topic.

Billie Eilish won the coveted Record of the Year at Sunday's Grammy Awards

1 hour ago

#pop #music

7873 2

Mobile

Reputation
254,789

Unfollow

My name is John and I'm a partner example user for this framewhile. My posts are really about any trending topic.

Billie Eilish won the coveted Record of the Year at Sunday's Grammy Awards

1 hour ago

#pop #music

7873 2

About FAQ © XEKKIT 2021

Reputation
254,789

Follow

My name is John and I'm a partner example user for this framewhile. My posts are really about any trending topic.

Home Top New Following

x/andre Reputation 254,789	x/antonio Reputation 4,789	x/joaquin Reputation 54,579
x/gabriel Reputation 789	x/andrea Reputation 989	x/joana Reputation 289,452
x/costa Reputation 154,789		

About FAQ © XEKKIT 2021

Reputation
254,789

Unfollow

My name is John and I'm a partner example user for this framewhile. My posts are really about any trending topic.

Home Top New Following

x/andre Reputation 254,789		

About FAQ © XEKKIT 2021

Figure 15 and 16: Third-Party Profile (unfollow button) and Third-Party Profile (follow button).

UI12: My Profile

This is how you can see your own profile. The difference between this page and the previous one is that you can't report/follow yourself, but you can edit your profile.

Desktop

KEKKIT

x/johndoe

Reputation 254,789

My name is John and I'm a partner example user for this framewhile. My posts are really about any trending topic.

Home Top New Following

Billie Eilish won the coveted Record of the Year at Sunday's Grammy Awards

✓ x/johndoe 1 hour ago

The 19-year-old singer felt "embarrassed" to accept the night's biggest honour for 'Everything I Wanted' because she was thought Megan Thee Stallion "deserved" it ...

#pop #music

7873 2

Daft Punk

About FAQ © XEKKIT 2021

Mobile

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Figure 17: [My Profile](#).

UI13: Edit Profile

This is an example of how you can edit your profile. On the desktop version is an example of someone who is not Partner while on the mobile version is an example of someone that is partner.

Desktop

Mobile

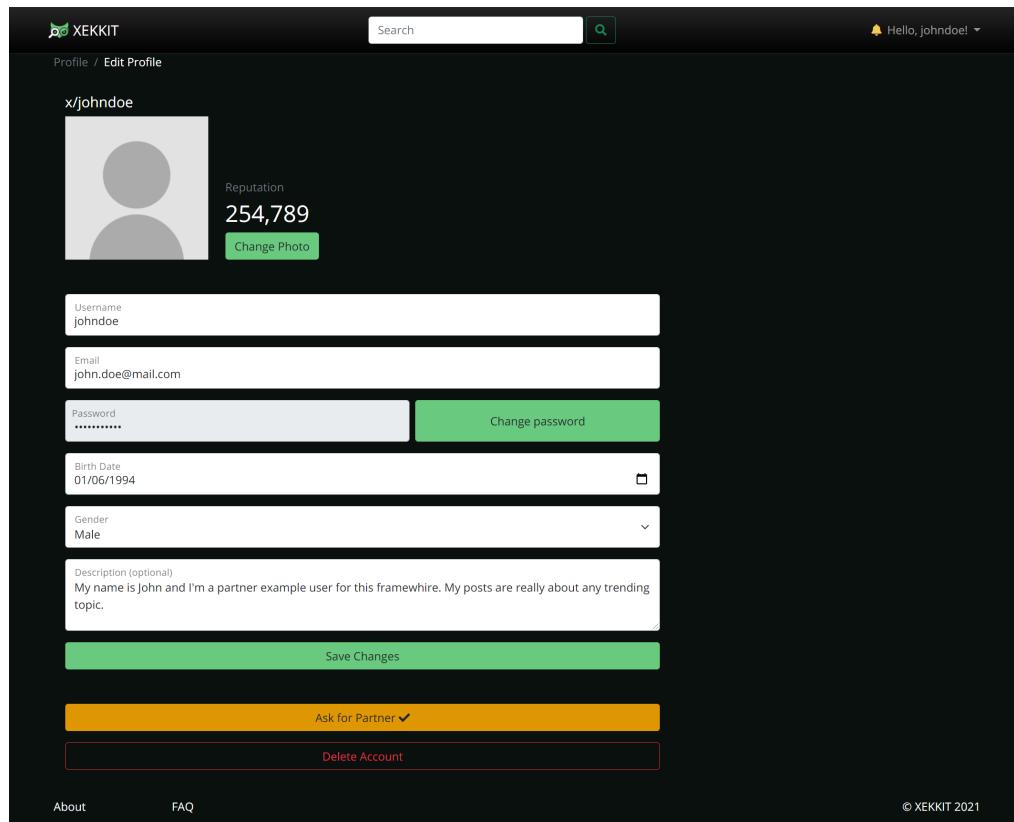
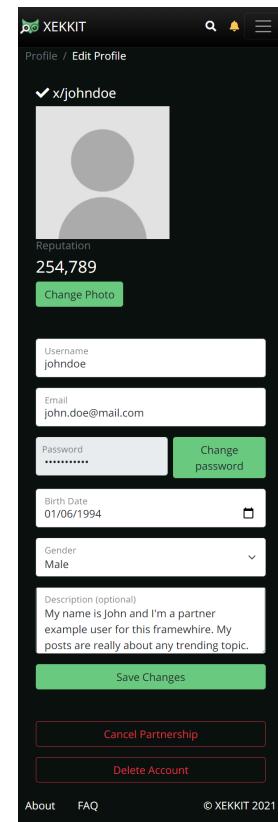
Desktop**Mobile**

Figure 18: [Edit Profile Partner](#) and [Edit Profile non Partner](#).

UI14: Ask for Partner

When you click the button "Ask for Partner" a modal box will appear where you must describe why we should accept you as Partner.

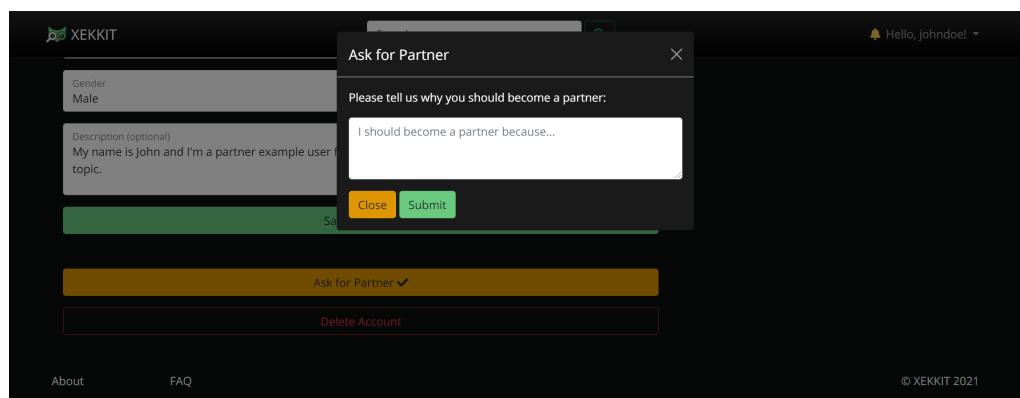
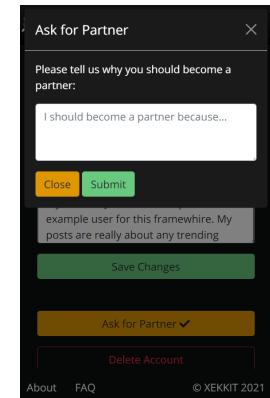
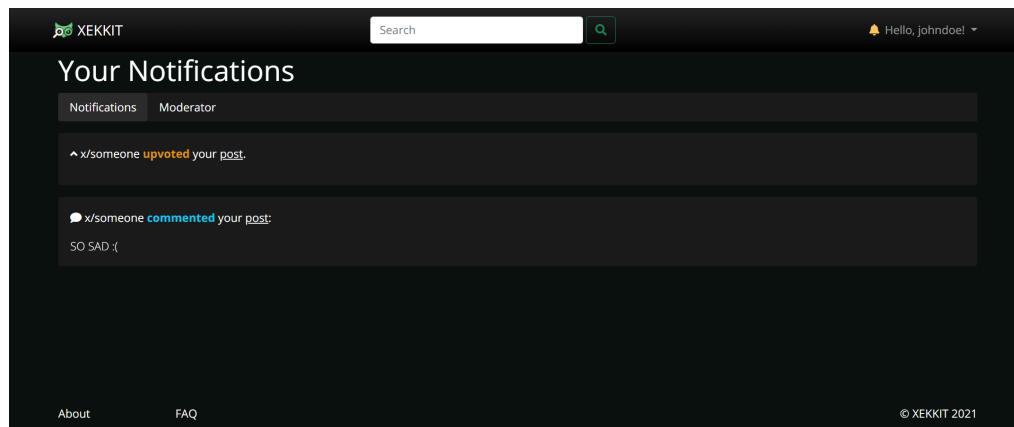
Desktop**Mobile**

Figure 19: [Edit Profile](#) and then click on yellow button "Ask for Partner".

UI15: Notifications

When you click the yellow bell on the navigation bar you end up in this page where you can see who voted/commented on your posted news.

Desktop



Mobile

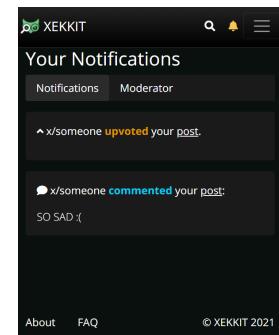
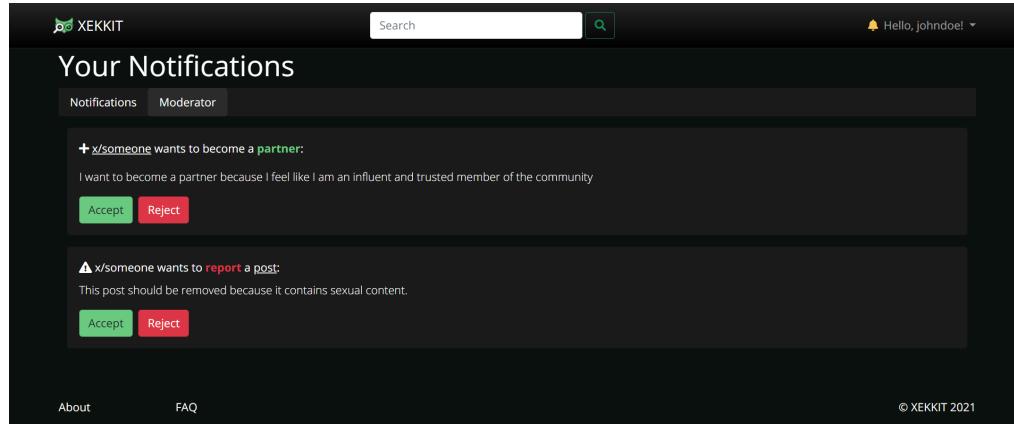


Figure 20: Notifications.

UI16: Moderator Options

If you are a moderator of our website, you will also have access to a tab inside the notifications page where you can manage moderator related events, such as manage Partner/report requests.

Desktop



Mobile

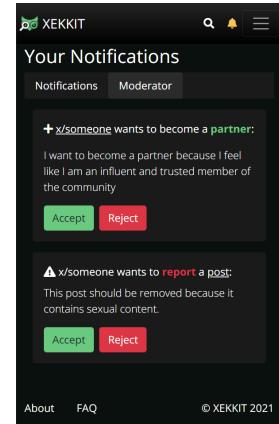


Figure 21: Moderator Options and then click on "Moderator" tab.

UI17: Banned User

If you were banned, you will see this page.

Desktop

Mobile

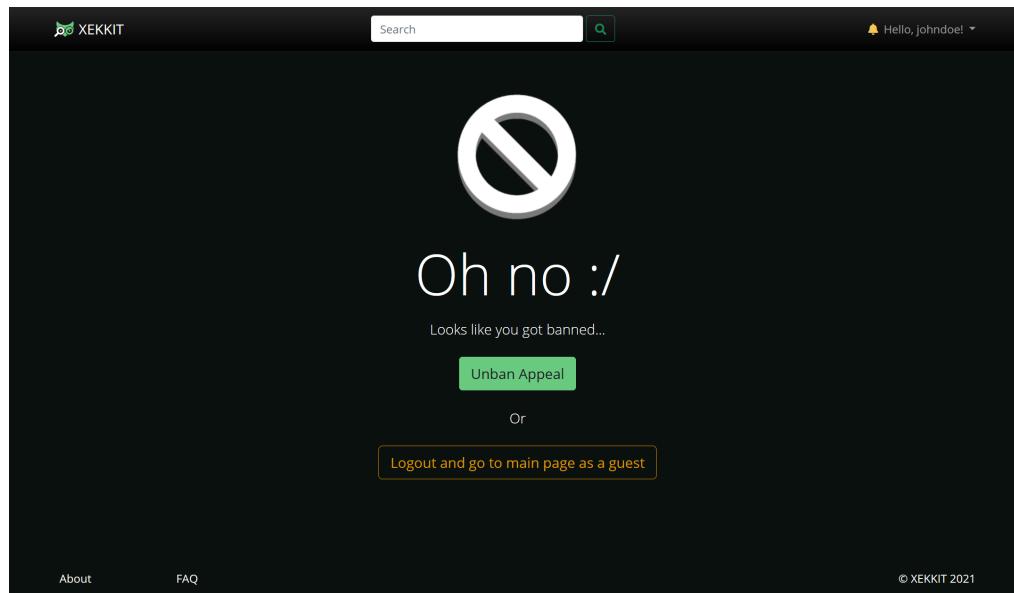
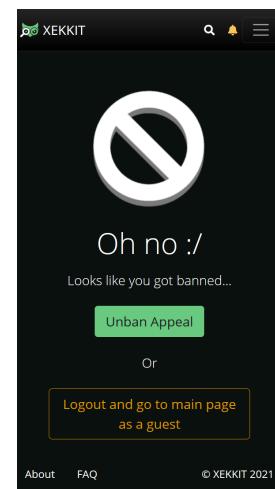
Desktop**Mobile**

Figure 21: Banned User.

UI18: Page Not Found

If you try to access some page you don't have permissions to access or that doesn't exist you will end up in this page.

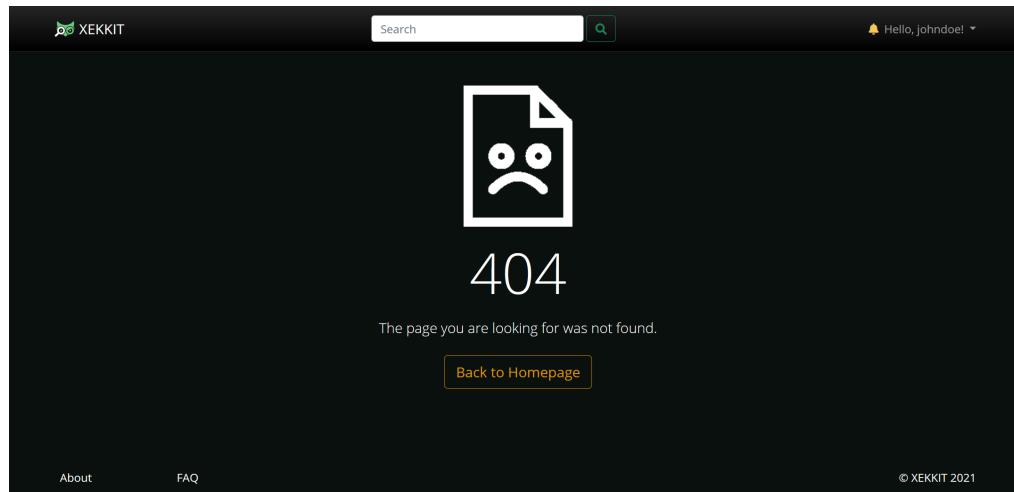
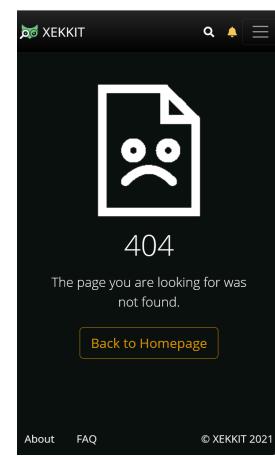
Desktop**Mobile**

Figure 21: Page Not Found.

Revision history

Changes made since the first submission (15/03/2021):

GROUP2114, 15/03/2021

- Beatriz Mendes, up201806551@fe.up.pt (A3 Review)
- Guilherme Calassi, up201800157@fe.up.pt
- Luís André Assunção, up201806140@fe.up.pt
- Ricardo Cardoso, up201604686@fe.up.pt (A1, A2 Review)