

ER: Requirements Specification Component

In the middle of a pandemic, we wanted to provide a social network to link people, so that the distancing is only physical.

A1: LiNK.ME

In an ever expanding society, we found it to be important for the people to be able to share their experiences and communicate with others with more quality. With the evolution of the pandemic, we believe it's important to be able to check up on your friends and acquaintances. LiNK.ME will be a social network of fast readability so that people that are working from home can check it on a quick break.

We want people to be linked.

When using this website, everyone will be able to read public posts and their comments, search for their favorite topics and people and register/log in with an email or a Google account. While logged in, they can write posts, comment posts, like or dislike posts, report posts and befriend other users in order to see their private posts and create groups with them. Post owners can edit and delete their own posts.

Administrators will be responsible for checking all the reports made on the posts and ban posts and users.

This website will have a responsive design in order to be easily used, regardless of the device, either for a quick pause on the computer or a coffee break on your phone.

A2: Actors and User stories

In this artifact we will go deeper on the user profiles by describing its actors and on the main features by creating user stories. It will also contain the supplementary requirements for the development.

1. Actors

This topic will be a description of the actors of the website.

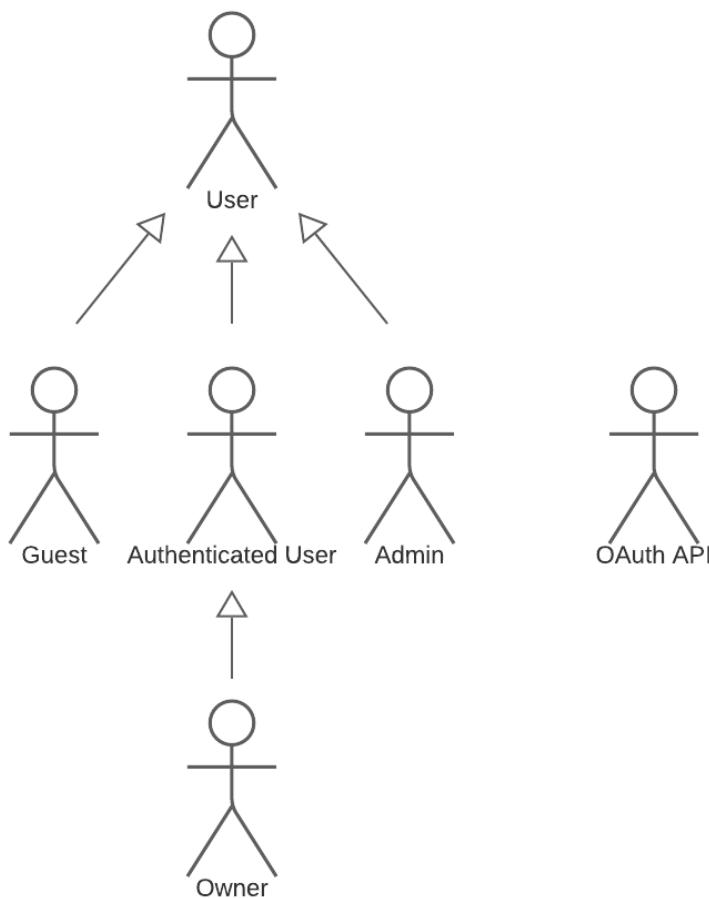


Figure 1: Actors

Identifier	Description	Examples
User	Generic user of the website, has access to all the public posts.	N/A
Guest	An unauthenticated user that can browse the site, only having access to public posts and profiles, not being able to like or comment.	N/A
Authenticated User	An authenticated user, has access to private profiles and private posts if he is friends with the post owner and he is also able to post on the site.	jlopes
Owner	An Authenticated User that has created a post and/or comment and that can modify it.	jlopes
Admin	An Authenticated user that is able to report posts and block certain accounts, serves as a moderator and supervisor of the website's proper functioning.	admin
OAuth API	API used to register/login via another website account.	Google OAuth API

Table 1: Actor Descriptions

2. User Stories

Now we will present the user stories and group them by actor.

2.1. User

Identifier	Name	Priority	Description
US001	See Home Page	High	As a <i>User</i> , I want to see the home page, so that i can view a generic page from the website.
US002	Read Public Posts	High	As a <i>User</i> , I want to read public posts, so that I can keep up with public lives.
US003	See Public Profiles	High	As a <i>User</i> , I want to be able to read any public profile, so that I can learn more about that person.
US004	Read Public Comments	High	As a <i>User</i> , I want to be able to open the comments of a public post, so that I can read them.
US005	Search Profiles	High	As a <i>User</i> , I want to be able to search for a specific profile, so that I can become friends with them and/or see their posts.
US006	See About Page	High	As a <i>User</i> , I want to be able to see an about page, so that I can get some more information about the webapp and its creators.
US007	See FAQ Page	High	As a <i>User</i> , I want to be able to see a FAQ page, so that I can easily get some answers about common questions on the webapp.
US008	Search Posts	High	As a <i>User</i> , I want to be able to search for a specific post, so that I can read it and/or react to it.
US009	Change Themes	Low	As a <i>User</i> , I want to be able to change the website' theme between light and dark modes, so that I can tweak it to have the best user experience possible.
US010	Check edited	Low	As a <i>User</i> , I want to be able to see if a post was edited, so that he's aware that the post has been modified.
US011	Change Posts Order	Low	As a <i>User</i> , I want to change the order of the posts, so that I can view the posts however I want.

Table 2: Users' user stories

2.2. Guest

Identifier	Name	Priority	Description
US101	Log in	High	As a <i>Guest</i> , I want to be able to log in, so that I can become a <i>Authenticated User</i> .

Identifier	Name	Priority	Description
US102	Register	High	As a <i>Guest</i> , I want to be able to register, so that I can create an account to log into.
US103	Recover Password	High	As a <i>Guest</i> , I want to be able to recover my password, so that I can regain access to my account.
US104	Register via Google API	Low	As a <i>Guest</i> , I want to be able to register using my Google account, so that I can register more conveniently.
US105	Log in via Google API	Low	As a <i>Guest</i> , I want to be able to log in with my Google account, so that I can log in easily

Table 3: Guests' user stories

2.3. Authenticated User

Identifier	Name	Priority	Description
US201	Post	High	As a <i>Authenticated User</i> , I want to be able create posts, so that the people I specify are able to see them.
US202	Comment	High	As a <i>Authenticated User</i> , I want to be able to comment a post, so that my opinion on that post is stated.
US203	Report	High	As a <i>Authenticated User</i> , I want to be able to report a post or a comment that I deem inappropriate, so that it can be reviewed.
US204	Like a post	High	As a <i>Authenticated User</i> , I want to be able to like a post, so that I can show my appreciation.
US205	Log out	High	As a <i>Authenticated User</i> , I want to be able to log out of my account, so that I can become a <i>Guest</i> .
US206	View/Edit own profile	High	As a <i>Authenticated User</i> , I want to be able to view and/or edit my profile, so that I can check and/or update the information on it.
US207	Delete Account	High	As a <i>Authenticated User</i> , I want to be able to delete my account, so that I can erase my data
US208	Send friend request	High	As a <i>Authenticated User</i> , I want to be able to send a friend request to someone, so that I can potentially become friends with them.
US209	See private posts	High	As a <i>Authenticated User</i> , I want to be able to see the posts of my friends, so that I can see what that person has been up to.
US210	Create a group	High	As a <i>Authenticated User</i> , I want to be able to create a group, so that I can share posts with only the people in that group.

Identifier	Name	Priority	Description
US211	Add friends to a group	High	As a <i>Authenticated User</i> , I want to be able to add my friends to a group, so that they can become part of it.
US212	Like a comment	Medium	As a <i>Authenticated User</i> , I want to be able to like a comment, so that I can show my appreciation.
US213	Change Feed	Medium	As a <i>Authenticated User</i> , I want to have the option to choose my feed's protagonists, so that I can see posts from different people.
US214	Save a post to favorites	Low	As a <i>Authenticated User</i> , I want to be able to save a post that I like, so that I can see it again later.

Table 4: Authenticated Users' user stories

2.4. Owner

Identifier	Name	Priority	Description
US301	Remove a post	Medium	As an <i>Owner</i> of a post, I want to be able to remove a post that I created, so that no one can see it again.
US302	Remove a comment	Medium	As an <i>Owner</i> of a comment, I want to be able to remove a comment of mine, so that no one can see it again.
US303	Edit a post	Low	As an <i>Owner</i> of a post, I want to be able to edit a post of mine, so that I can change it to my liking.
US304	Edit a comment	Low	As an <i>Owner</i> of a comment, I want to be able to edit a comment of mine, so that I can change it to my liking.

Table 5: Owners' user stories

2.5. Admin

Identifier	Name	Priority	Description
US401	Delete other's post	High	As an <i>Admin</i> , I want to be able to delete other's posts, so that I can prevent inappropriate behaviour.
US402	Delete other's comments	High	As an <i>Admin</i> I want to be able to delete other's comments, so that I can prevent inappropriate behaviour.
US403	Ban users	Medium	As an <i>Admin</i> I want to be able to ban other users, so that I can keep the website user-friendly.

Table 6: Admins' user stories

3. Supplementary Requirements

In this topic we will present some requirements the system has.

3.1. Business rules

Identifier	Name	Description
BR01	Ownership	A Authenticated User can only edit or delete its own posts.
BR02	Post Date	A post's date must be in the past compared to the current date.
BR03	Banned Account	No posts of a banned user will be visible
BR04	Automatic Account Ban	An account will be banned after its 3rd banned post.
BR05	Banned Posts	The banned post will not be visible for anyone.
BR06	Text limit	The amount of characters you can write on a post is limited.
BR07	Deleted Account	Posts from a deleted account will not be shown anywhere, all friendships are disbanded, all friendship requests are deleted and groups that include that account remain the same

3.2. Technical requirements

Identifier	Name	Description
TR01	Security	The system should protect the users from known attacks and make use of a verification system on the login process.
TR02	Access	Users should be able to access the website in most devices and most browsers
TR03	Availability	The website must be online at least 95% of its lifespan.
TR04	Performance	Pages on the website should not take more than 3 seconds to load.
TR05	Web Application	The system should be implemented as a Web application with dynamic pages.
TR06	Portability	The server-side should work on the most famous OSs.
TR07	Usability	The website should have a user-friendly design.
TR08	Scalability	The system should be able to support a large number of users and posts.

3.3. Restrictions

Identifier	Name	Descriptions

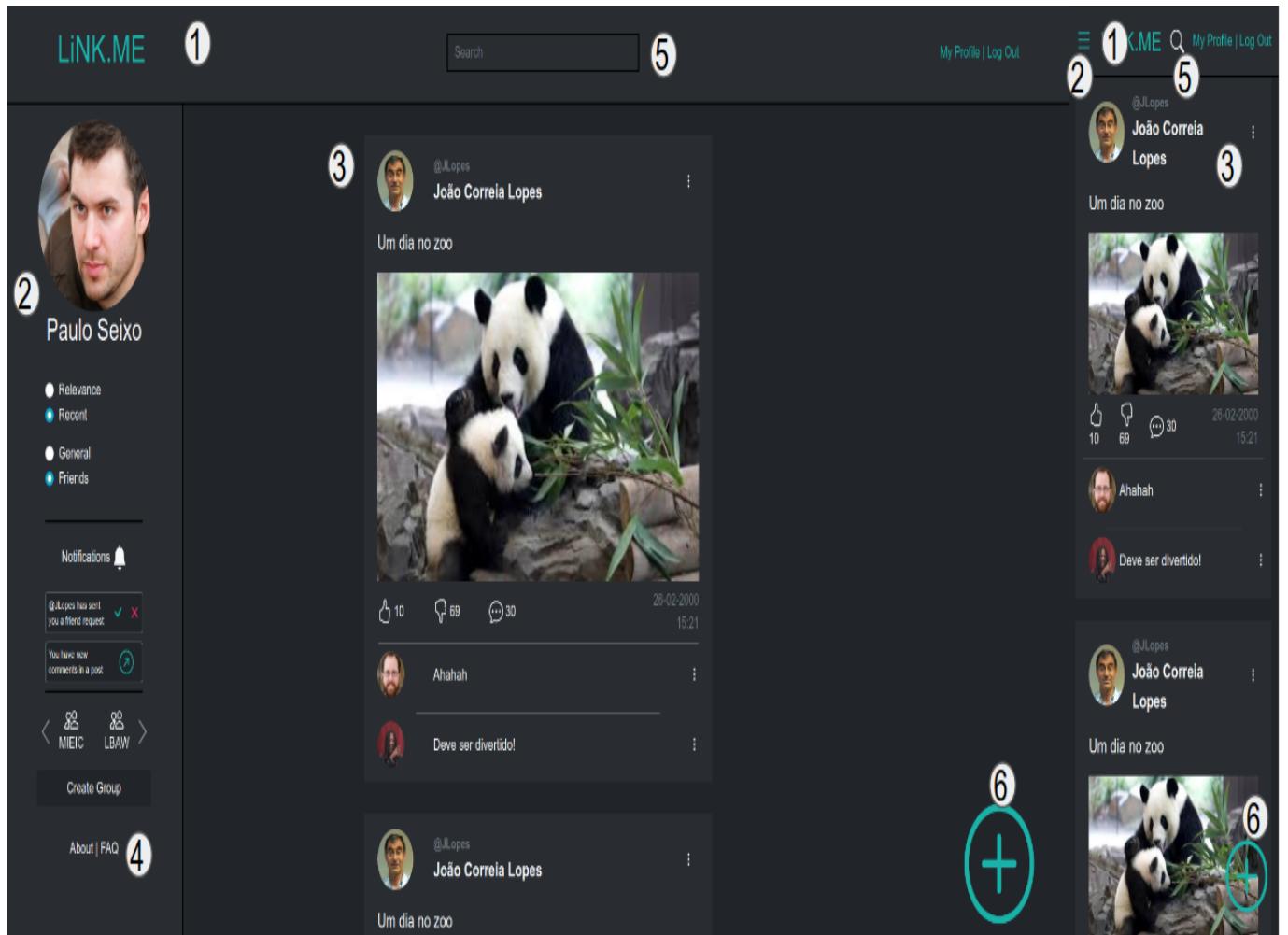
Identifier	Name	Descriptions
C01	Deadline	The system needs to be ready for deployment by 31/05/2021.
C02	Team Size	The system will be implemented by a group of 4 people.

A3: User Interface Prototype

In this artefact, we present an interactive prototype of the webapp to be developed, determining the main appearance, the architecture and a model of the main interactions with the system. These are shown through site maps and wireflows for better understanding and a visual representation of the intended end-product.

1. Interface and common features

We used HTML, CSS and JS to implement this webapp and the user interface was made with the Bootstrap framework



1. Navbar
2. Aside
3. Content
4. Footer
5. Search Bar
6. Create Post

This image shows the main page and the characteristics that are part of most of the webapp.

- The navbar has the name of the app that can be used anytime to return to the main page.
- The aside is a bar that contains info related to the user and the current page he's on.
- The content is the main part of the page and where the content related to the current page appears

We decided to design the website in a dark theme to be easier on the eyes and because it contrasts well with the main color.

2. Sitemap

This sitemap shows the relationships between the various actions and pages, giving an idea of what will be possible and how the information is hierarcally structured.

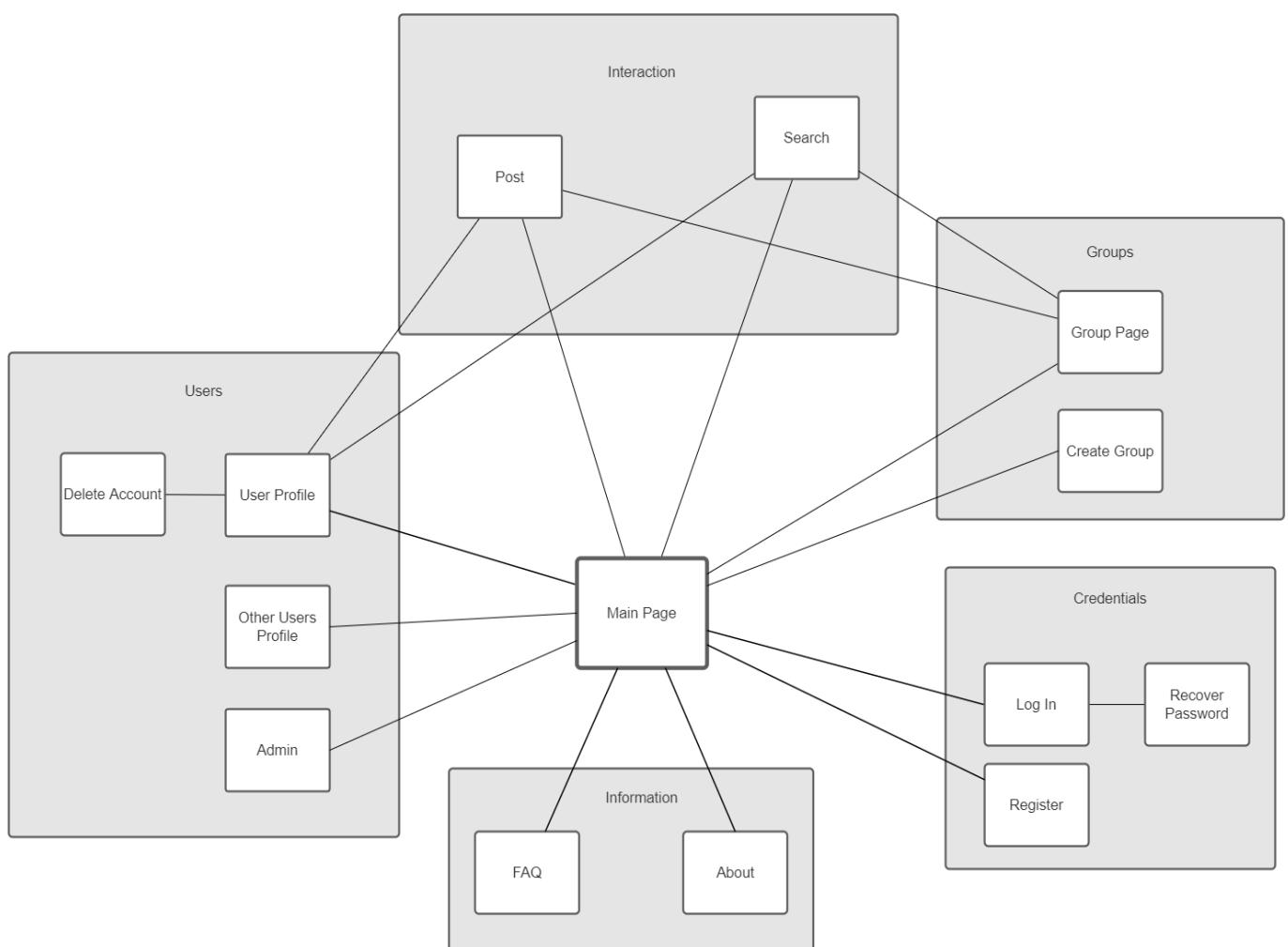
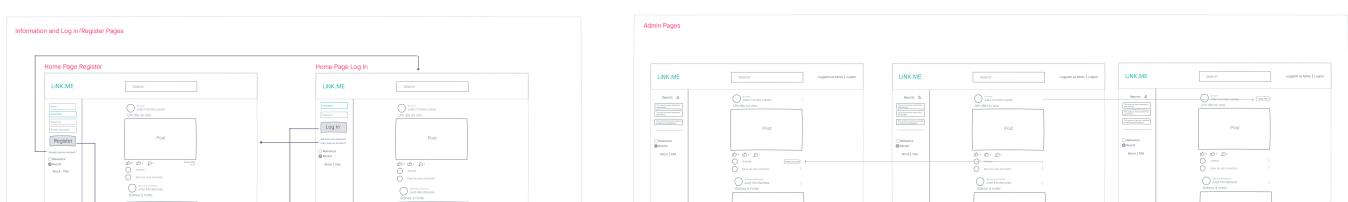
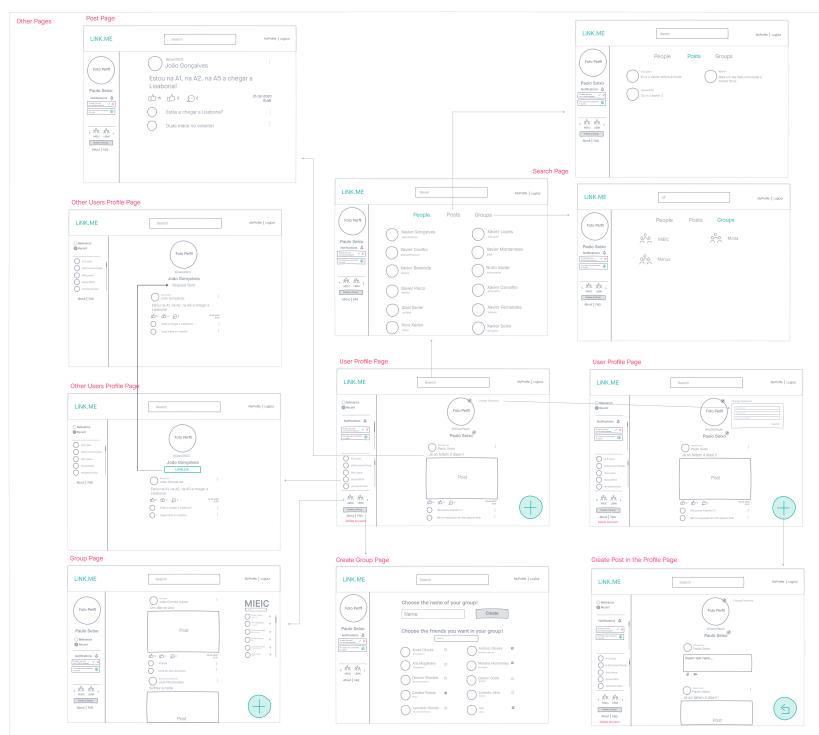
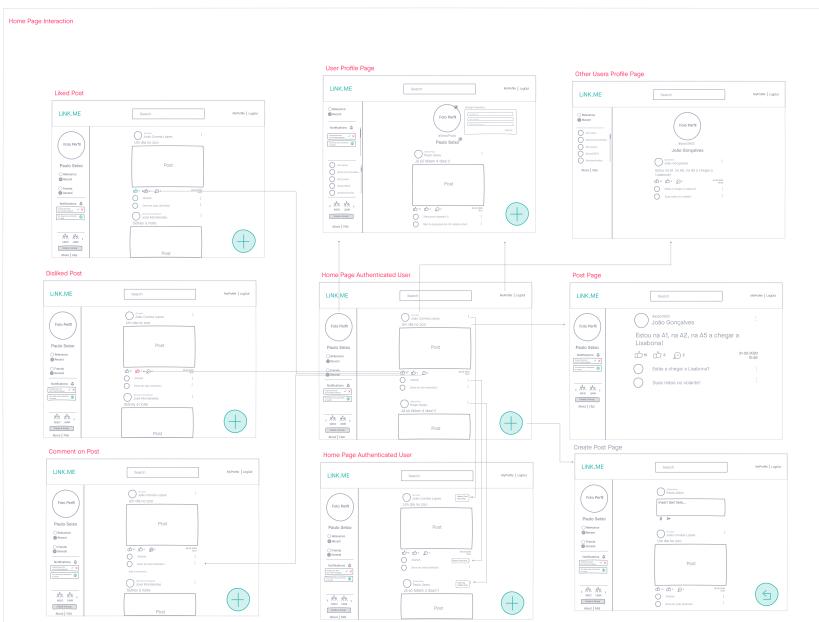
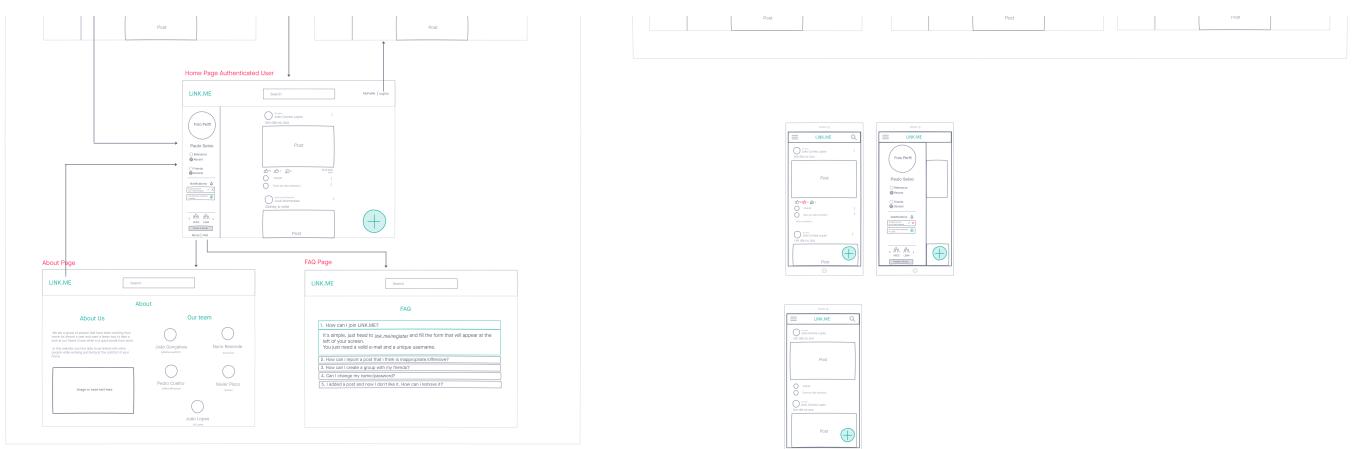


Figure 2: Sitemap

3. Storyboards

In this topic we have a print of the whole wireflow for the project and a link to the invision project we developed.





Link to wireflow: <https://projects.invisionapp.com/freehand/document/GVCuidQiX>

4. Interfaces

The interfaces describe the user interactions and the main content of the web app, previewing the core features of the final's products different screens.

Implemented Pages:

- [UI01: Home](#)
- [UI02: About](#)
- [UI03: FAQ](#)
- [UI04: Login](#)
- [UI05: Register](#)
- [UI06: Post](#)
- [UI07: My Profile](#)
- [UI08: Other's Profile](#)
- [UI09: Search](#)
- [UI10: Create Group](#)
- [UI11: Group](#)
- [UI12: Admin](#)
- [UI13: Error](#)

UI01: Home

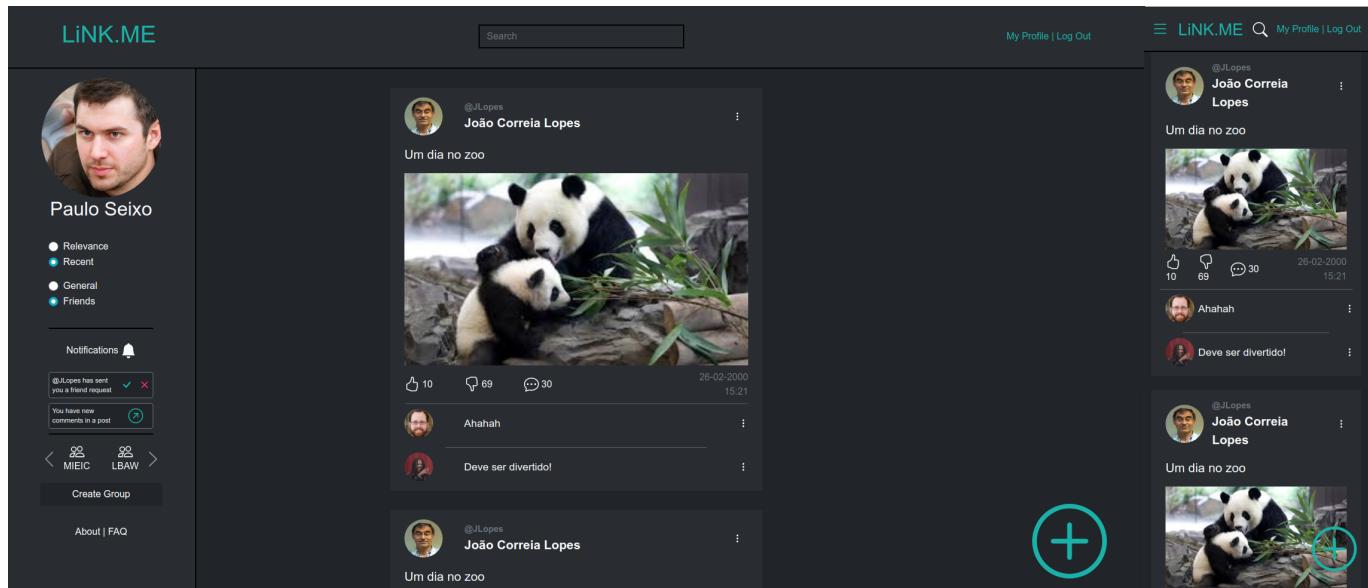


Figure 7: Home Page

UI02: About

About Us

We are a group of people that have been working from home for almost a year and want a faster way to take a look at our friend's lives while in a quick break from work.

In this website you'll be able to be linked with other people while working and living at the comfort of your home.

Our Team

	João Gonçalves @Ranhocas2000
	Nuno Resende @nunores
	Pedro Coelho @Mine4Phantom
	Xavier Pisco @peico

About
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Figure 8: About

UI03: FAQ

FAQ

1. How can I join LiNK.ME?	It's simple, just head to link.me/register and fill the form that will appear at the left of your screen. You just need a valid e-mail and a unique username.
2. How can i report a post that i think is inappropriate/offensive?	
3. How can i create a group with my friends?	
4. Can I change my name/password?	
5. I added a post and now I don't like it. How can i remove it?	

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4. Can I change my name/password?	
5. I added a post and now I don't like it. How can i remove it?	

Figure 9: FAQ

UI04: Login

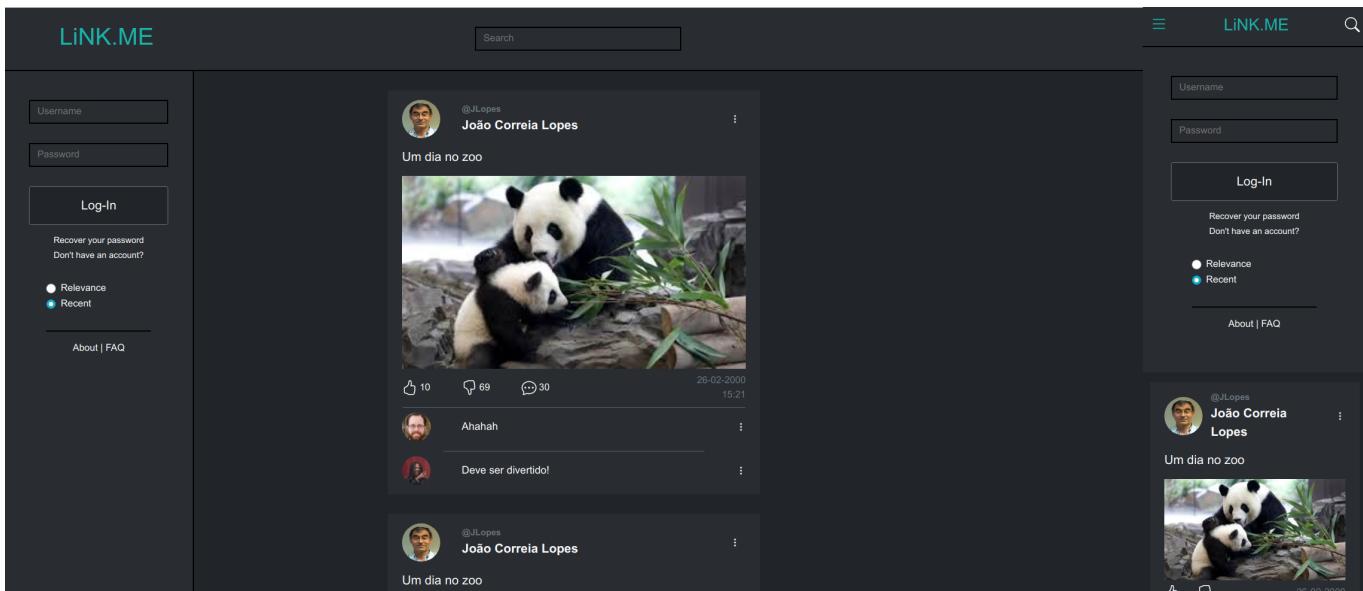


Figure 10: Login

UI05: Register

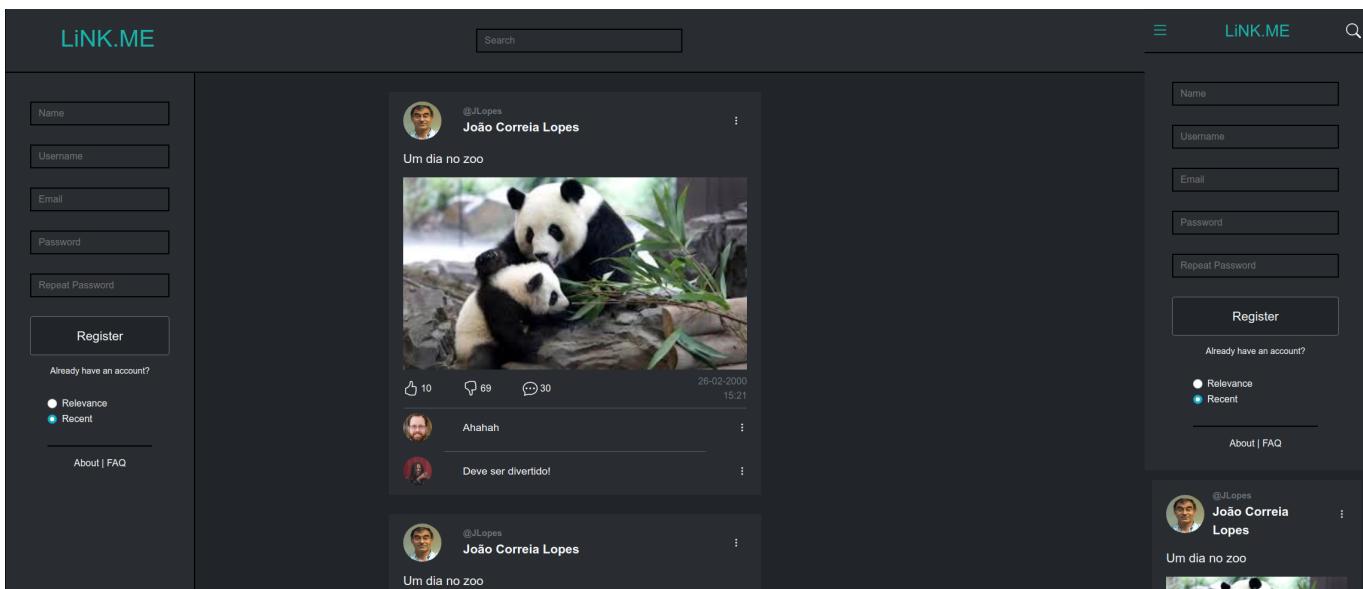


Figure 11: Register

UI06: Post

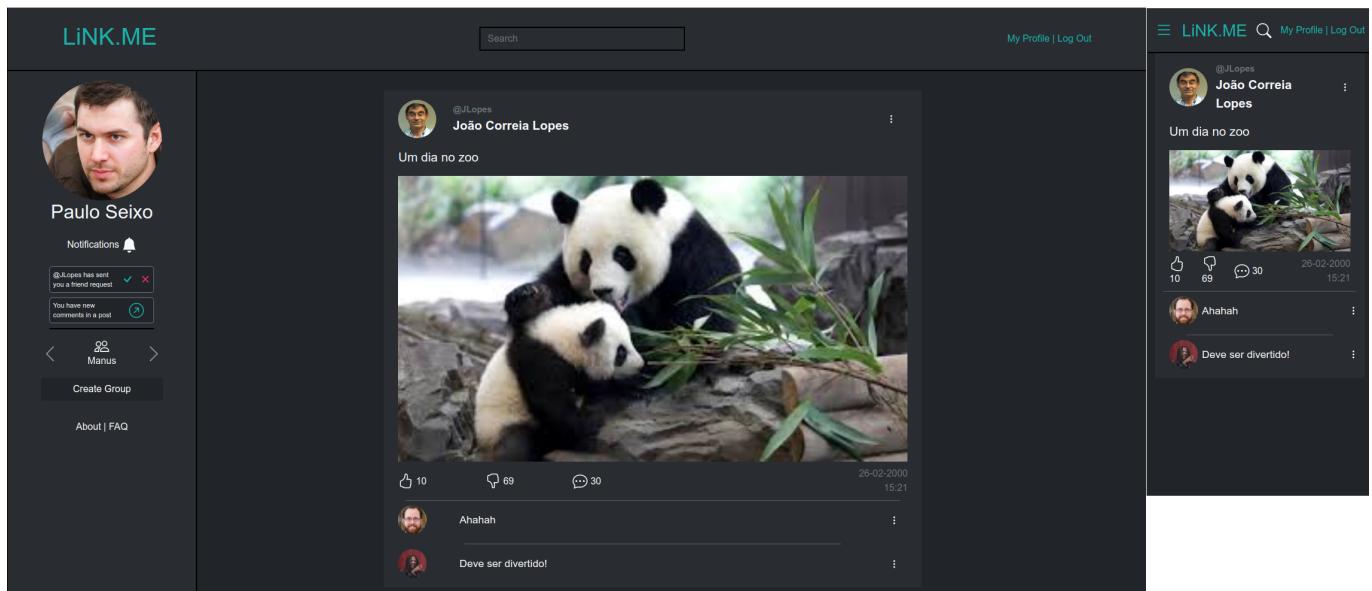


Figure 12: Post

UI07: My Profile

Profile Information:

- Relevance (radio button selected)
- Recent (radio button)
- Notifications bell icon
- Profile picture of Paulo Seixo (@SeixoPaulo)
- Change password link
- bio: Paulo Seixo

Recent Post:

- Post by @SeixoPaulo: Já só faltam 4 dias!!! (image of Times Square at night)
- 15 likes, 3 views, 2 comments
- Reply from João Correia Lopes: Mai posso esperar!!!!
- Reply from Paulo Seixo: Não te esqueças de mim depois ahah

Figure 13: My Profile

UI08: Other's Profile

João Gonçalves
@joao0903

Estou na A1, na A2, na A5 a chegar a Lisabona

15 likes, 3 comments, 2 shares

21-02-2021 12:55

Duas mãos no volante

Estás a chegar a Lizaabooona?

Figure 14: Other's Profile

UI09: Search

People

- @SousOcalves Xavier Gonçalves
- @Mine4Phantom Xavier Coelho
- @xares Xavier Resende
- @psico Xavier Pisco
- @OAbel Abel Xavier
- @Xico Xico Xavier

Posts

Groups

- @XLopes Xavier Lopes
- @XM Xavier Montanelas
- @numoxavier Nuno Xavier
- @Carvalho Xavier Carvalho
- @XavierFernandes Xavier Fernandes
- @XSeixo Xavier Seixo
- @OAbel Abel Xavier

Figure 15: Search

UI10: Create Group

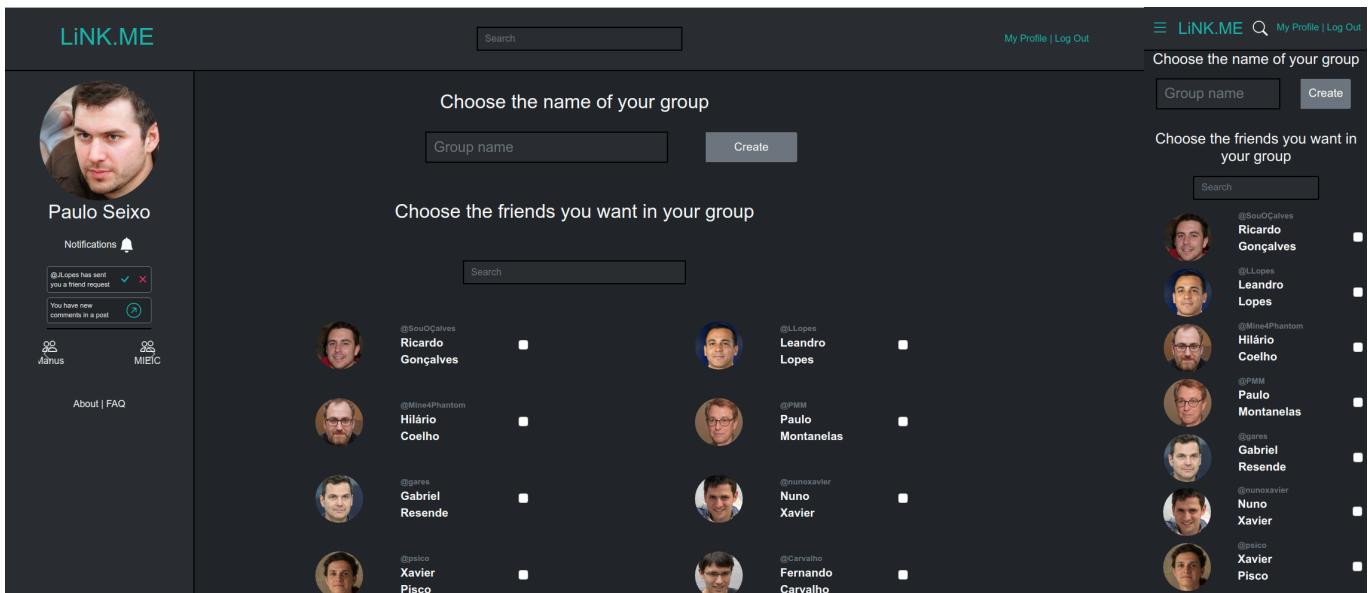


Figure 16: Create Group

UI11: Group

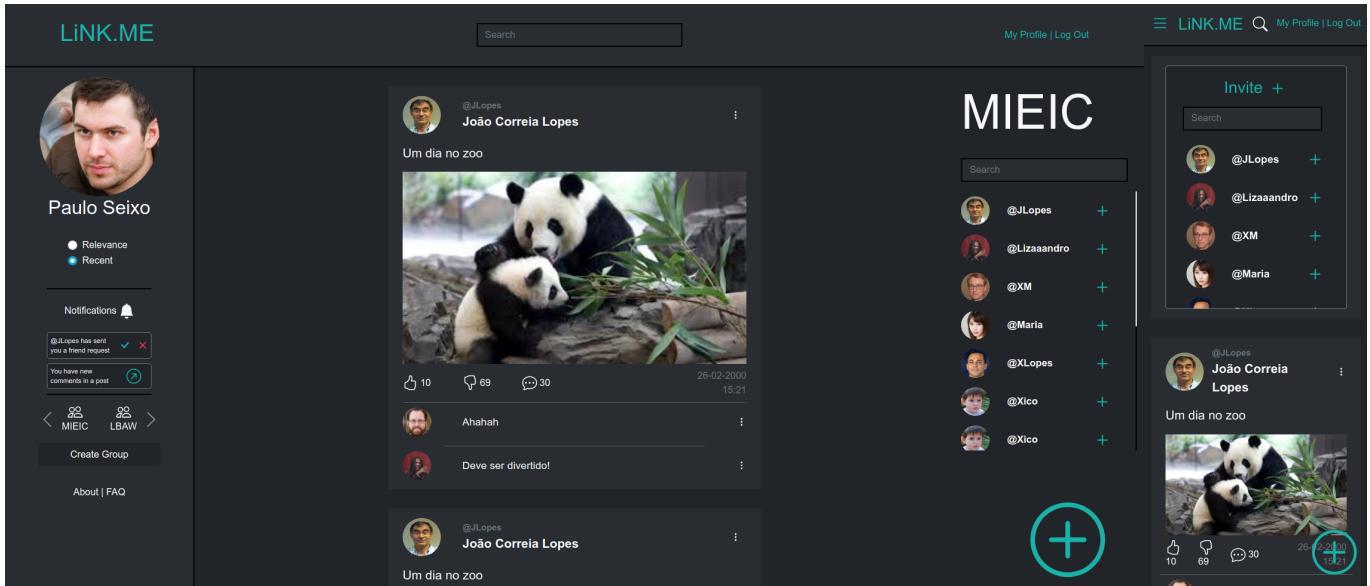


Figure 17: Group

UI12: Admin

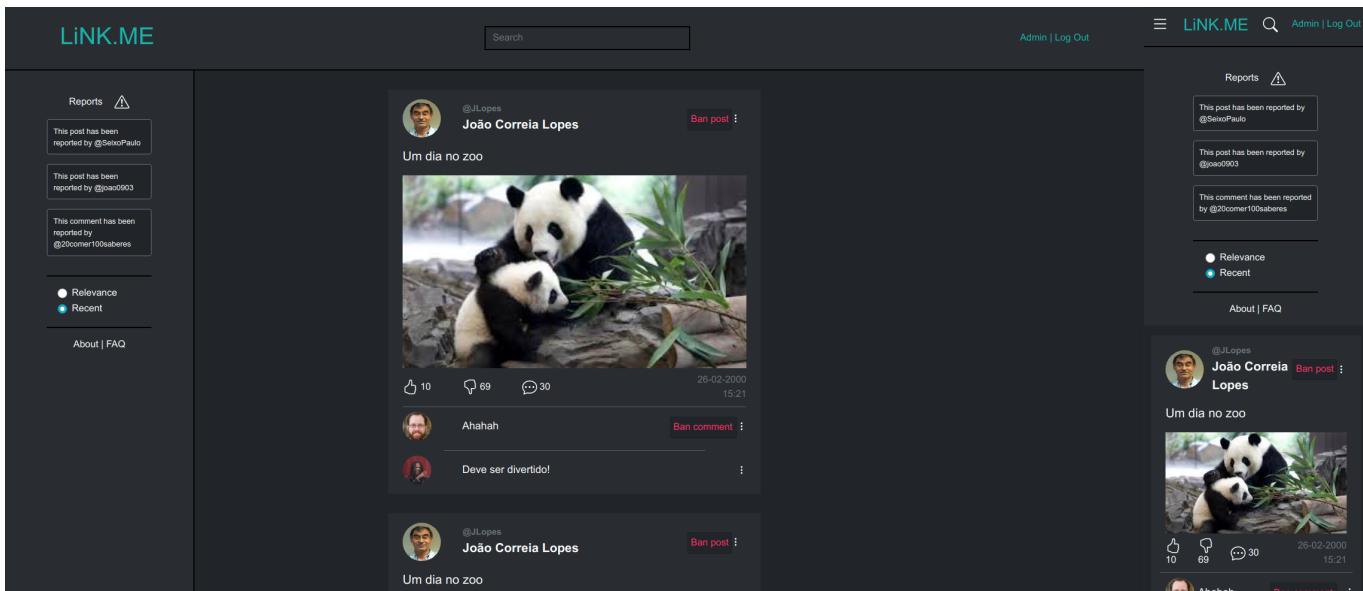


Figure 18: Admin

UI13: Error

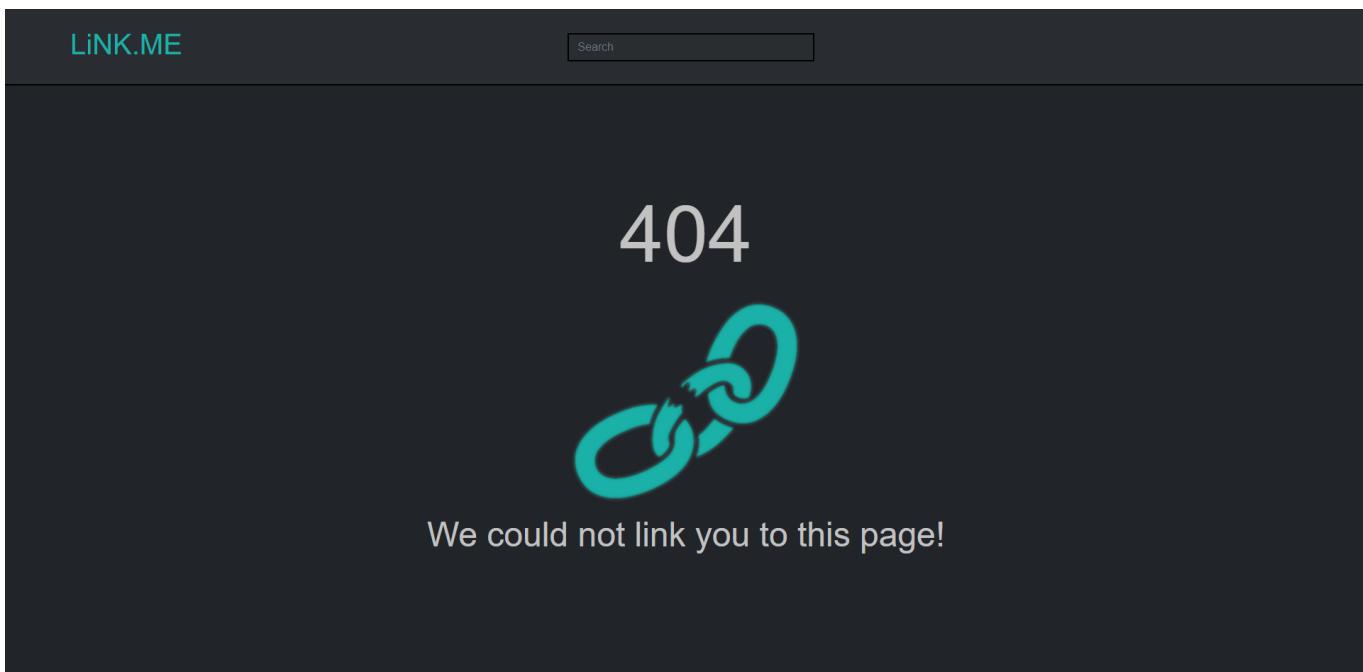


Figure 19: Error

Revision history

GROUP2145, 16/03/2021

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