

You Can't Bring Us Down

Uniting people through hardships and social discriminations
while protesting quietly through art

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Software Requirements Specification

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1. Introduction

In introduction we will describe the system, the problem that it will aspire to solve and its goals.

1.1. Overview

Many people suffer in their everyday life from hardships and social discriminations.

Our goal is to give them a voice, help them be heard in creative and safe ways to raise awareness and educate the public.

We want people to share their experience, find each other to unite and protest together while artists support the protests, they stand with through activist art that will get published and make more noise.

1.2. Problem Description and Motivation

Many citizens go through suppression and social discriminations in their daily life while their country doesn't act, or even is the main suppressor, and are left on their own to fight for their rights and justice.

In addition, a lot of cases of social discriminations and suppression are not widely known globally or even locally.

Every artist can experience art block and not find inspiration. It can get very stressful if their livelihood is dependent on it. Also, because of the hard competition, artists find it hard to make themselves a name.

1.3. Goals

The system goals are:

- To let people express themselves, find others with shared worldviews to unite and stand together for what they believe in.
- To expose people around the world about problems, give awareness to different situations and let them support.
- To give artists opportunities to support statements with activist art and get themselves a name.

1.4. Scope

The system's domain is the freedom of speech and protests with activist art.

1.5. Glossary

- Activist Art - a term that is used to describe art that is grounded in the act of 'doing' and addresses political or social issues. [\[1\]](#)
- Art Block - Art block describes a period when an artist has no ideas for new work. The artist loses their ability to produce stimulating original work, and their output grinds to a halt. [\[2\]](#)
- Get - A Jewish document that indicates the husband divorces the wife and ends their marriage. [\[3\]](#)
- Anime - is hand-drawn and computer-generated animation originating from Japan. [\[4\]](#)
- Protestor - The user that makes a post and uses the artworks to make a protest.
- Supporter - The user that supports the protestors and the artists.

2. General description

In the General description section will be explained the ways you can use the system and the people behind it.

2.1. User Characteristic

2.1.1. Stakeholders: Client Description



[1st Picture - Haaretz Logo]

The client is “Haaretz” newspaper.

Haaretz is an independent daily newspaper with a broadly liberal outlook both on domestic issues and on international affairs.

It gives you breaking news, analyses and opinions about Israel, the Middle East and the Jewish World. [\[5\]](#)

Haaretz was first published in 1918 as a newspaper sponsored by the British military government. In 1919, it was taken over by a group of socialist-oriented Zionists, mainly from Russia. [\[6\]](#)

According to the change of their political views they lost a lot of readers and would like to attract new audiences.

2.1.2.End-Users Description and Scenarios

In this section we will identify our users and show their context with the system.

First Persona:



[2nd Picture - First persona, Ronit Peretz]

Ronit Peretz 35 years old with a child, Lives in Bat Yam.

Ronit's Story: Ronit is in Divorce proceedings after 10 years in marriage while she put up with her husband's abusive and manipulative behavior, but he doesn't agree to it and refuses to give the Get to keep his control over her.

Ronit's Goal: To put light on the harsh process of getting the Get.

Ronit's Flow: Ronit got into the system through her cell phone, had the option to be anonymous but decided not to. She wrote everything on her mind and before posting her story, she approved artists to attach activist art to her post. The system sorted the post topic as Divorce and recommended her other posts that were similar and in hers. After some time, she got a message that an artist attached an activist art to her post. She checked the artist profile and saw that they got a good reputation in the system. Thanks to the artist's high reputation she was able to choose a bigger variety of places to put her protest in. The system recommended her time and a place suiting the subject of her protest to make it more effective, her story was exposed to the public and was shown in the billboards located in Azrieli.

Second Persona:



[3rd Third Photo - Second Persona, Adina Cohen]

Adina Cohen, 25 years old lives in Atlit and graduated with an animation degree from Sapir college.

Adina's Story: Adina loved to watch anime since she was young and that inspired her to become an animator. But now, the harsh reality of finding a job in this unpopular field in the suburbs or state in general is uncommon. Luckily, she found out about the system, heard she can develop and grow within it and earn well needed exposure with how many reputations she got .

Adina's Goal: To work in the field and make her brand grow.

Adina's Flow: Adina logged in using her desktop into the system to search for inspiration and look through the subjects she follows with available creation slots. After some time of browsing, she encountered Ronit's post. She read the post and decided she would like to support Ronit's statement and when she finished her artwork, she uploaded it attached to Ronit's post. As a result, a bunch of new people got exposed to Adina's creations and earned some reputation points. Thanks to the reputation level, Adina's artwork got to be presented for a week at Azrieli Towers.

Third Persona:



[4th Picture, Third persona, Bar Buskila]

Bar Buskila, 17 years old from Tel Aviv.

Bar's Story: Since a young age she felt like she was in the wrong body. At age 15, she came out to her family and her friends, who accepted her as who she is. Bar felt relief as her fears of not being accepted had faded through time.

Bar's Goal: To support people she relates to get more awareness about what happens around her.

Bar's Flow: Bar heard of the system as good way to let off some steam and saw an anonymous post of a transgender woman from a religious family sharing her story, while skimming through some new posts. She related to her as a trans woman herself, as she was also very frightened about coming out to her parents. Bar decided to write a comment about how she can relate to her story, that she is not alone and that she would be glad to hear updates about how she is and if she had come out, how it went. She also followed the post to get more information when it will be posted. She got a notification that an activist art has been posted to that post. Bar clicked on the notification and saw the art. She really liked the art, so she rated the artwork positively, clicked on the artist's name to enter the artist's profile then saw that they were new and didn't have much reputation yet.

2.2. System Perspective

In system perspective we will go through five components of the system.

2.2.1. Software

- Web-based application.
- Responsive UI which is supported by different types of devices.
- Code

2.2.2. Hardware

Hosting server.

2.2.3. Data and Information

- User data
- Categories
- Arts data
- Posts data

2.2.4. Processes

Process name: Making a Post

Participating: All users

Flow of events:

1. Click on make a new post.
2. Write the title of the post.
3. Write the summary of the post.
4. Write the story.
5. Choose categories that the system recommended.
6. Add or remove categories of the user's choice.
7. Choose if you want to receive art commission:
 - (i) No commission:
 - a. Artists aren't allowed to post art inspired by the post
 - (ii) Agree to receive art commission:
 - a. Choose how many artists are allowed to post art
 - b. Write instruction for the artists (optional)
8. Choose if to make the post anonymous
 - (i) if anonymous, the username won't be linked to the post and it will be posted anonymously.
 - (ii) if not anonymous, the post will be link with the user's username.
9. Success notification

Process name: Support with activism art

Participating: Artists

Flow of events:

1. Choose if to make your account anonymous.
 - (i) If yes, write a fake name.
2. Upload some artworks for portfolio.
3. Search category and posts that art commission is open in them.
4. Decide on a post that inspires.

5. Request to upload an art:
 - (i) The user will be able to upload the art by the next 60 days.
6. Upload an art to the post.
7. Success notification.

Process name: Make a Protest with art

Participating: The Original Poster

Flow of events:

1. Choose which artworks to present
2. Choose where to present (regarding the artist reputation)
3. Choose one preferred period to present the art:
 - (i) If there is a protest about the same subject, the system will recommend those dates.
 - (ii) If time and location were already taken, go back to 2.
4. Pick people who aren't following the post to send notification.
5. Add Description (Optional)
6. Success notification.

2.2.5. People

The users:

- Protestors – decide what to write and upload to the system
- Artists – decide what protest they would like to support with active art.
- Supporters – read protests and comment on them as a support to a protest.

The Services providers:

- The hosting server's company.

The creators:

- Software engineers

2.3. Market Survey

2.3.1 Problem Survey

Setting up a protest can be a long process and not effective in the end, because of that people don't use their civilian rights as much as they can.

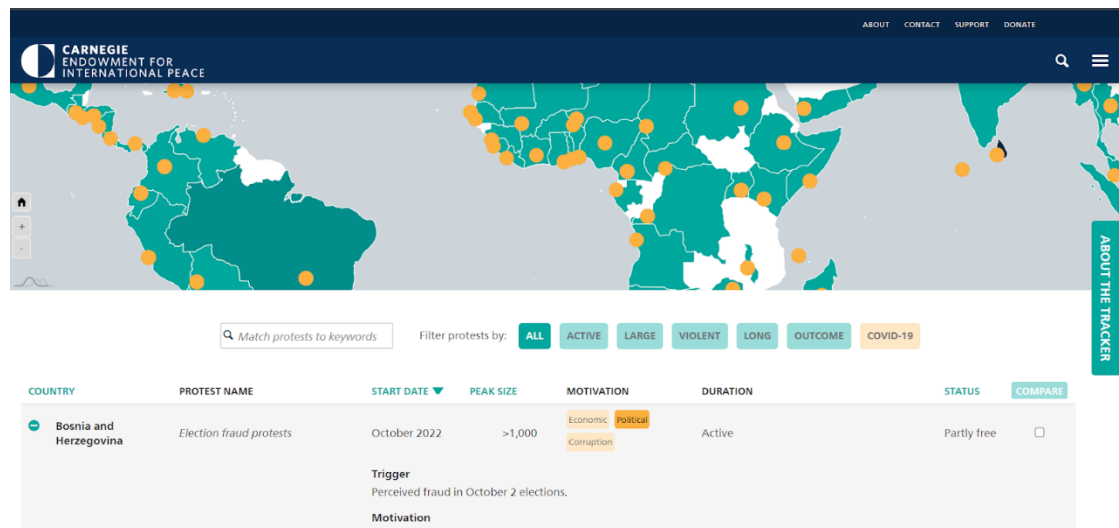
People also might feel uncomfortable to join protests since there is a lot of commotion. In addition, they must expose themselves to the public to do so.

We started the market survey by looking for systems that users can share their personal stories about injustices they had been through. Those stories are linked to relevant protests that the system keeps data about.

As we expected, there wasn't a system that had those features. The systems that we found were only keeping data about global protests or social media that people can share everything and schedule events.

2.3.2 Solution Survey

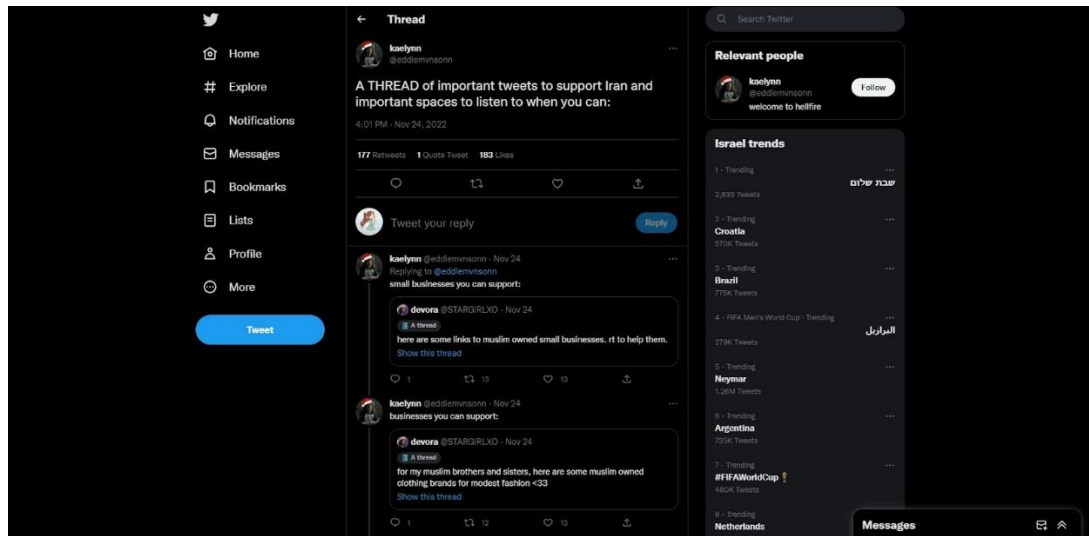
The first system that we will cover is Carnegie Endowment. [\[7\]](#)



[5th Picture - Carnegie Endowment website]

Carnegie Endowment is a site that tracks and records protests around the world. Shows where, when, and how many people were present in the protest and what was the trigger for the protest to start.

The second system that we will cover is Twitter. [8]



[6th Picture - Twitter Website]

Twitter is a social media that people use to write anything on their mind and update others about their daily life, able to upload posts, photos, or videos. Some of the things that people post about are protests, social discrimination, and share donation links to help.

Social media lets people write whatever is on their mind so it's possible to find different opinions and updates about different places in the world and the injustice that is occurring in them. [9]

2.3.2 Discussions and Conclusions

Both systems touch the subject of protest in a different way and have their own pros and cons to deal with the problem we are trying to solve.

On one hand, Carnegie Endowment shows the general information about the protest, and has the option to search a specific protest. The information is easy to understand as it's short and categorized. But on the other hand, it doesn't share personal information about the people that are protesting or how it affected them personally.

An advantage that Twitter has is that its users share their stories to raise awareness about global situations and different ways to help the people. But it also has a disadvantage that it isn't a platform specific for protest so not all the users are interested in those subjects. The posts are limited to a specific number of characters, which makes it hard to post or read the stories comfortably. Because it is social media, there is a lot of fake news that is being shared which makes it an unreliable source of information.

In conclusion, we want to take the Informative structure from Carnegie Endowment. The information about the protest is short and declarative and you also view the protests outcomes. There is also a map that shows where they occurred. For our system, we want to make it more about personal experience. People can share their stories from a protest, can search for a specific protest to view and read people's experience. The map that our system will use is to show the locations that activist arts are being shown on billboards, which distinguishes their system from ours.

From Twitter, we want to take the ease to update and share about the experience but to let the people that don't have the excess to speak on their own and share their own personal experiences. We also want people to feel safe to protest, as they don't have to go out in person to protest in the streets but still put their statements out in the open.

For our system, we want the stories to be about personal injustice experiences and giving them a voice and a chance to make a change outside of social media.

2.4. The approach

The system will have desktop and mobile application.

The system will give people around the world a way to protest safely while giving artists a place of inspiration, a way to support and get attraction for the artist and the protest.

2.5. Constraints

None.

2.6. Assumptions and Dependencies

None.

3. Functional requirements

The functional requirements will be divided to two user types: all users and artist users. In all users, we will also focus on functions that can be done on posts and users. We will be marking the importance of each functional requirement by using the MoSCoW system.

Function Requirements supporters and protestors:

Function Requirements in main page:

1. [M] - Creating an Account
 - The system asks for username
 - Username is limited to 20 characters
 - The system asks for password
 - Password is limited to 20 characters
 - The system asks for the user's email
 - The System asks if the account is anonymous
 - If yes, the System generates a fake name or asks to enter one
 - The System asks if the user is an Artist account
2. [M] - Recover forgotten login info
 - The system asks for the email the account linked to
 - The system asks if to recover the username or the password
 - If requested to recover the password, the user able to change it
 - If requested to recover the username, the system sends an email with the username
3. [M] - Show Main Page
 - The system will show profile picture
 - The system will show the user's username
 - The system will have a fast search box (5. [M] - Fast Search)
 - The system will have a link to create a new post (4. [M] - New Post)
 - The system will have a link to an advanced search (6. [S] - Advanced Search)
 - The system will have a global map with marked locations.
 - The map can be filtered to a specific country.
 - Each location shows the billboard locations that the art is being presented on.
 - If the user is logged in and has followed categories, the system will show the first ten categories and will let them click on each category to see all the posts in that category
 - If the user is logged in and has followed categories, the system will show the first ten categories and will let them click on each category to see all the posts in that category.
 - The system will show the title, the user and the summary of the newest posts.

4. [M] - New Post
 - The system asks for the post's title.
 - Post title is limited to 100 characters
 - The system asks for a post summary.
 - Summary is being limited to 300 characters.
 - The system asks for the story
 - Story is being limited to 5000 characters.
 - The system provides relevant subjects to categorize the post
 - The system lets the user can also add or remove their own categories
 - The system asks if the user wants arts inspired by their story
 - If yes:
 - The system asks how many artists can upload an art
 - The system asks for instruction for the artists (optional)
 - If no:
 - The system doesn't allow artists to upload an art
5. [M] – Fast Search
 - The system has a search box on the main page
 - The system gets input from the user
 - The system searches which posts includes the input
 - The system will show the total number of posts that were found to be relevant to the search.
 - If no posts, users or categories were found, the system will let the users know that there weren't any results.
6. [M] – Making a protest
 - The system checks if the user has a post that got activist artwork
 - If there aren't artworks, then unable to make a protest
 - The system checks if there are artworks that haven't been presented on billboards
 - If there aren't artworks, then unable to make a protest
 - While there are artworks that hasn't been shown on billboards, The system let the user pick which artwork to present:
 - The system checks for the location and asks the user if that's where they want to show the art
 - If no, the system lets the user change location
 - The system recommends the most effective time periods that available in the chosen location and lets the user choose one out of five options
 - The system checks if the chosen location and time period has been chosen by another user.
 - If not available, the system lets the user choose location and time again.
 - The system sends a notification to anyone who follows the post, the protestor or the artist.

7. [S] - Advanced Search
 - The system let the user search by:
 - Post titles
 - Categories
 - Usernames
 - The system will let the user choose how to sort the search result.
([S] - Sort Posts) (Optional)
 - The system will let the user choose how to filter the search result.
([S] - Filter Posts)
 - After searching, the system will show the total number of posts that were found and all the posts that were found to be relevant to that specific search
 - If no posts were found, users or categories were found, the system will let the user know that there weren't any results
8. [S] - Sort Posts (part of Advanced Search)
 - The System lets the user choose between one of the post sorting options:
 - Sort by newest to oldest (Default)
 - Sort by oldest to newest
 - Sort by alphabet order
 - Sort by most to least viewed posts
 - Sort by least to most viewed posts
 - Sort by the most to least amount of supporters
 - Sort by the least to most amount of supporters
 - Sort by the most to least number of arts per post
 - Sort by the least to the greatest number of arts per post
 - The user did not specify which way to sort the post, the system will choose to sort the post by newest to oldest.
9. [S] - Filter Posts (part of Advanced Search)
 - The system will let users filter posts by choosing what they want the posts to include:
 - Only posts with specific subjects the user chose
 - Only posts with the specific feelings the user chose
 - Specific country:
 - If chosen a specific country, choose to include a specific town (optional)
 - Only posts that allow art support
 - Only posts that have available art slots to support
 - The system will let users filter posts by choosing what they want the posts to exclude:
 - Exclude specific feelings
 - Exclude specific countries:
 - If chosen a specific country, choose to exclude specific towns (optional)
 - Exclude posts that allow art support
 - If the user won't exclude or include anything, the system will show all the posts and won't filter.

10. [S] – Muting
 - The system lets users block users or categories so they won't be able to see them in the system.
 - If muted, the user or category will also be added to the relevant mute list.
11. [S] - Follow a user, post or category
 - The user can click on the follow button
 - The system adds one in the following count for the relevant item
 - Possible to unfollow by clicking the follow button again
12. [W] - Schedule a meetup
 - The system will calculate the number of participants expected to be according the number of followers the category and the user have.
 - The system will recommend a location according to the number of participants and subject of the protest to let the user pick.
 - The system will recommend a date and time that will be most effective and let the user pick.
 - The system will notify in the category on the upcoming protest.
13. [W] - Show a meetup
 - The system will show there is a meet up when the user filtered the meetup's category.
 - The system will show the meetup before the posts.
 - The system will show the meetup location and date.
 - The system will show the countdown to the meetup's time.
 - The system will show how many people will join.
 - The system will have an option to join the meetup.
 - if the user clicked on it, the count of people that are coming will increase by one.

Functional requirements on posts:

1. [M] - Delete post

The user that made the posts chose to delete it, the system the protestor if he is sure he wants to delete the post.
If yes, the system removes the post from the data and free space
2. [M] - Edit post

The user that made the posts chose to edit it, the system will save the new version and delete the old post.
3. [M] - Rating an artwork
 - The system gets the ranking the user gave to the artwork
 - The rank range between 0 (worst) to 5 (best)
 - The numbers must be natural numbers
 - The system calculates the average rating
 - every user can rate once a day each art
4. [M] - Edit post

The user that made the posts chose to edit it, the system will save the new version and delete the old post.

5. [S] - Comment on a post

A user can choose to comment on a post or an art post.

The system checks if the comment is under 500 characters:

- If the comment is under 500 characters, the system submits the comment under the specific post
- If not, the system won't post the comment until the user will not delete letters and click on post comment again.

6. [S] - Support a post

After a user clicked on the support button in a specific post, the system calculates the number of support each post gets.

7. [W] - Follow-up post

The system will let the user have an option in his post to make a follow up post. The follow up is meant to update what happened after the user has posted their story.

- The system will take the original post title and will add "Follow up post" to it for the post's title and cannot be changed by the user.
- The system will use the summary of the original post and cannot be changed by the user.
- The system will let the user write their update on the situation, limited 1000 characters.
- The system will list the categories from the original post.
- The system will provide new relevant subjects to categorize the post.
- The system will let the user remove or add new categories.
- After the follow up post has been posted, the link to the follow up post will be updated by the system after the story in the original post.
- The system will also add a link to the original post before the user's update.

Functional requirements on specific users:

1. [M] - Show Profile

- The system presents the user profile by clicking the name of the user
- Show the number of followers
- Show the latest actions in the system
- Show all the user posts
- If the profile owner is an artist:
 - The system will show the artist's portfolio
 - The system will show the artist's average reputation, the average rating of all the artists artworks
 - The system will show current arts that being show on billboards with link to the post and description of locations and dates
 - The newest activist art is shown
 - The system will let the user choose to see all the arts.
 - If the profile is the user's personal profile, the user can review archived collected data, followed categories, followed users and muted categories

2. [M] - Artist's Rate

The system will calculate the average rate from all the artist's creations to their overall rate.

3. [S] - Report User
 - The system asks to pick on what the report from a list:
 - Art spam
 - Bad behavior
 - Plagiarizing
 - if the reported user got 50 points overall, they will be blocked from the system.

Function Requirements for artists users only:

1. [M] - Uploading Portfolio
 - The system checks if the account is logged in and is an Artist
 - The system allows only files with PNG or JPG
 - The system limits up to 10 files
 - If the file is more than 500MB, the system will not upload the file and will send error.
2. [M] - Supporting a protest
 - After the artist sends a request to take a slot, the system limited the time to upload an art to 60 days
 - The system checks if the artist that tried to upload an art has a requested to and is by the time limit
 - If no, artist is unable to upload
 - The system checks if the file is PNG or JPG
 - If no, the system sends error and won't upload the file
 - If the file is more than 500MB, the system will not upload the file and will send error.
 - The system attaches the artwork to the post
 - The system posts the artwork on the artist profile.
3. [S] – Delete an artwork

After the artist uploads an artwork for a post and clicks on delete, the system will show a notification If the artist is sure that he wants to delete the post.
If yes, the artwork will be removed from the data, the post and the artist profile.
4. [W] - Making merchandise for a meetup

The Artist submits a logo that can be printed on banners and merchandise that will be used in the protest.

 - If the user is an artist, the system will show in the meetup post a merchandise option
 - If the file that the artist has uploaded isn't PNG or JPG, the system will send an error and won't let the artist upload the file.
 - If the file is more than 500MB, the system will not upload the file and will send error.

4. Non-Functional requirements

Privacy Requirements:

- The user's personal details will be shown only to the user itself
- The users muted list will be shown only to the user itself
- The user's following lists will be shown only to the user itself
- After deleting user, the system will delete all their personal details

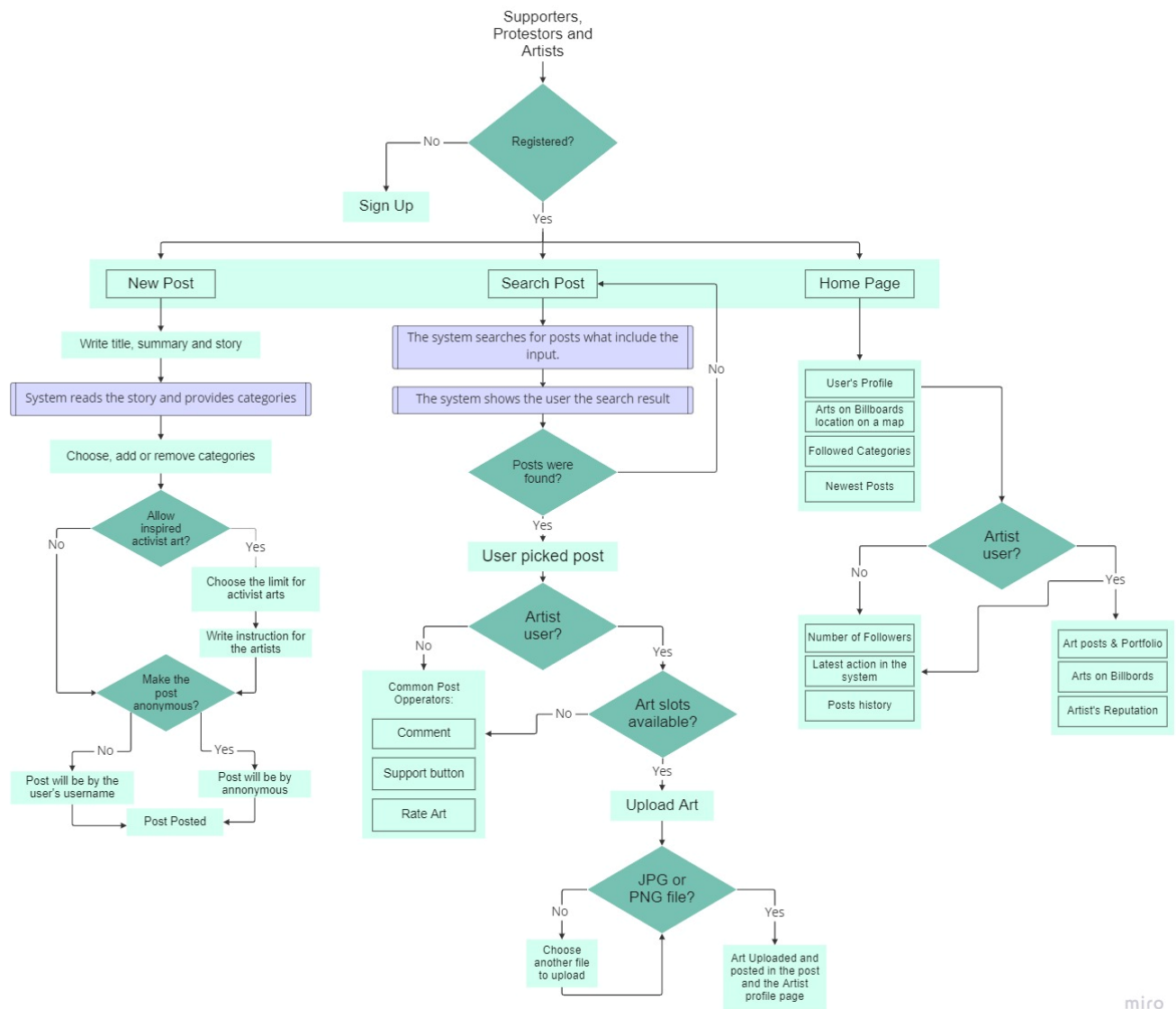
Security Requirements:

- The user's login information and personal details must remain confidential.
- To keep the artwork from being reposted, only the original post user and the artist user can save the uploaded picture.
- Only the user that wrote the post can edit, delete or choose to show art on billboards.
- The system will have high security due to the personal details the users share
- Users that are not logged in will only be able to view and search posts.
- Only artists users can support with art and upload portfolios.

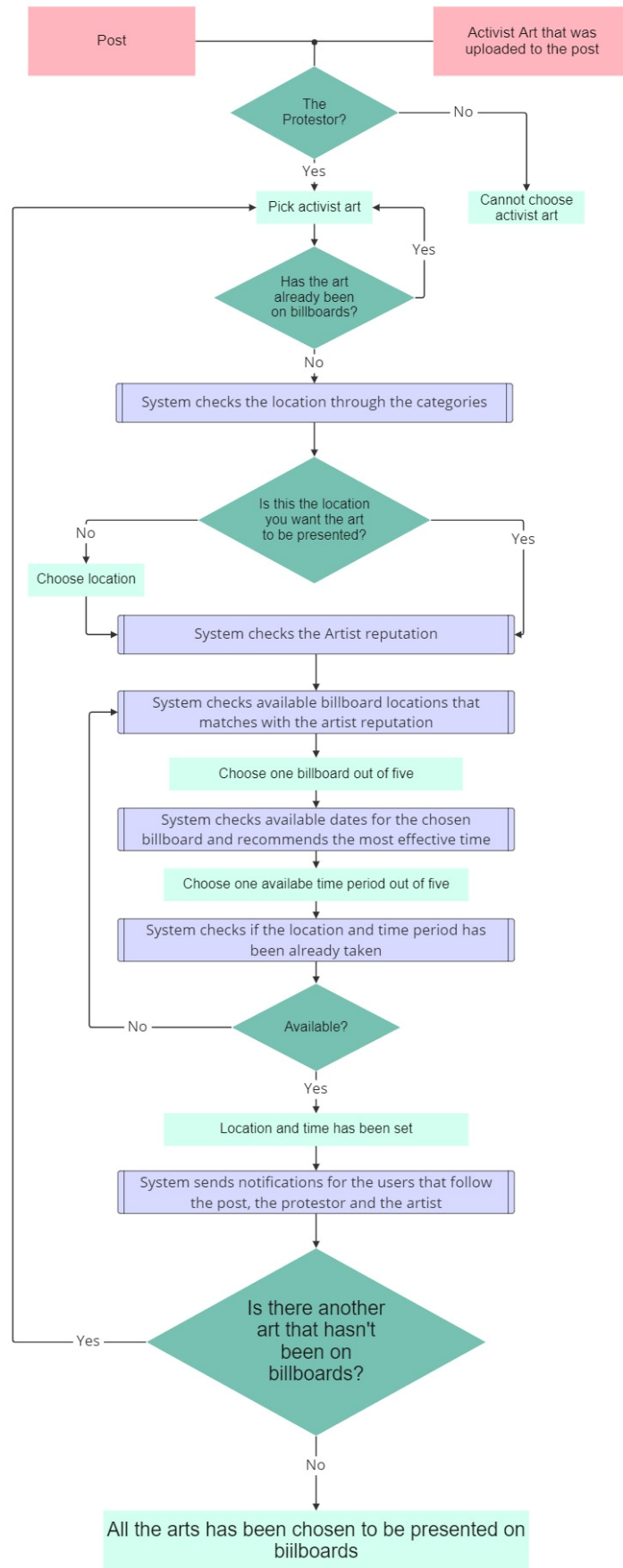
Usability and Accessibility Requirements:

- Can Post Multiple posts and without discriminations.

5. System flows



[7th Picture – First system flow]



miro

[8th Picture – Second system flow]

6. Risk management

- The risk: malware and unwanted files will get uploaded to the system.
The action to be taken: only PNG and JPG files are allowed.
- The risk: spam files and taking all the creation slots.
The action to be taken: only one upload from an artist user per post.
- The risk: the user will see trigger or offensive visions.
The action to be taken: allow to mute specific topics to not show the user.
- The risk: an activist art will be presented on the billboard more than once.
The action to be taken: can use activist art once and for limited time.
- The risk: post titles or stories will be too long.
- The action to be taken: limited characters per title and post.
- The risk: artworks will be stolen.
- The action to be taken: only the user who got the commission or the artist can save the art.

7. System main screen specifications

The system main screens will be a desktop screen and a mobile screen.

8. Non-goals

- The system focuses on protests and isn't just another social media that anything can be shared at.
- To make people go and protest more.
- To make new leaders.
- To make changes happened.
- To make protests more environmentally friendly.

9. Open issues

- How to deal with a full data base
- How to deal with people who post scam instead of personal story

10. References

- [illegible]