Functional Requirements

- Register using Email and other accounts (Google, Apple)
- Log in using email and password created when signing up
- Change username and password
- Reset username and password
- 2FA and MFA
- Create profiles and bio
- Edit profiles and bio
- User communication (messaging)
- View user profiles
- Search user profiles
- User autosuggestion
- Report users and content
- Share projects being worked on

Non Functional Requirements

UI
- Clear and intuitive UI and navigation
- Responsive web app
- Accessibility features
    - Dyslexia: Easy to read fonts
    - Visual impairments:
        - Account for colour blindness
        - High contrast
        - Text-to-speech
- Light and dark mode

Compliance
- Compliant with data protection and privacy laws (GDPR)
- ISO/IEC
    - 27001 - Information security
    - 27017/8 - Cloud privacy for PII
    - 27040 - Storage systems and protection of data
    - 27033 - Network security
    - 27034 - Application security
    - 27039 - Intrusion prevention

Reliability
- Fault resistance
- Automatic recovery in case of downtime / System failure

Security
- Data encryption at rest
- Data encryption in transit

Availability
- Target uptime of 99.9% (SLAs with cloud providers?)
- Backups allowing for business continuity and recovery

Compatibility
- Compatible with all major web browsers (Chromium based, Safari, Firefox)

Maintainability
- Modular and reusable code
- Well documented code base
- Automated testing for functionality and security

Scalability
- Network bandwidth to allow.
- Data storage for user data.

Performance
- Handle 100+ concurrent users.

User stories

New and current users
As a new user I want to be able to sign up with my email so I can use the web app.

As a new user I want to be able to sign up using existing accounts like Google, so I don't have to use my email or create a new password to remember.

As an existing user I want to be able to log in using my username and password to access my account.

As user I want to be able to change my username and password if I forget them, so I can access my account again.

As a user I want to have MFA and 2FA authentication methods to make my account more secure.

As a user I want to be able to create and update my profile information so that it stays up to date with what I am currently working on.

As a user I want to be able to delete my account and all my data from the app should I no longer wish to use it.

As a user I want to access the app via different devices, so the website needs to have a responsive design that allows for this.

As a user I want to receive notifications via email if someone tries to reach out to me, so that I don't miss anyone wanting to work on a current or new project with me.

As a user I want access to an FAQ page to resolve potential issues I might face when using the web app quickly

As a user I want E2E encryption for my messages to other users for privacy.

As a user I want an intuitive UI so I can use the web app easily and not spend too much time learning how to navigate it and perform actions.

Admins
As an admin, I want to be able to remove and ban users who do not follow the rules of the app when communicating and sharing content with others.

As an admin I want to receive reports of inappropriate content from users.

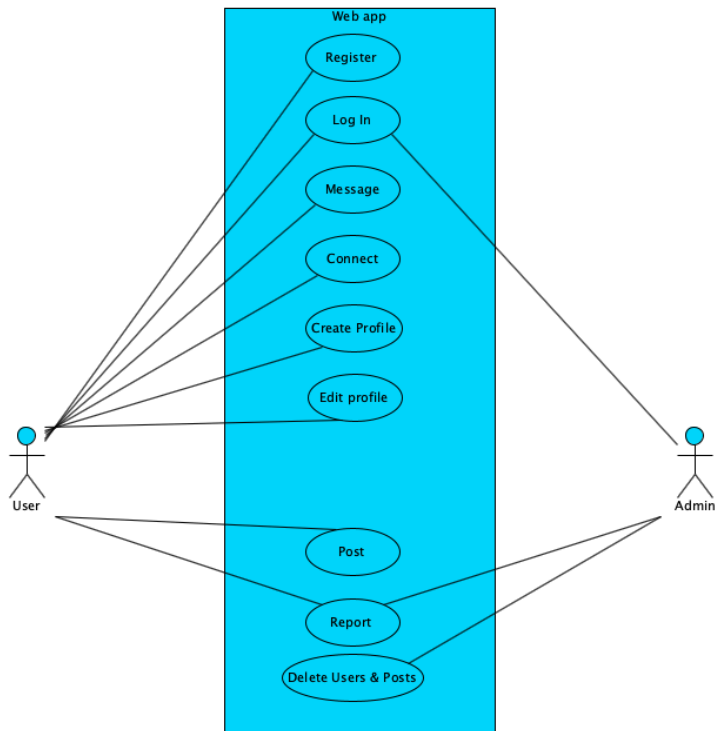As an admin I want to easily review reports of inappropriate contents.

As an admin I want to receive feedback from users on how the app could be improved, and features they'd like.

As an admin I want to ensure that the platform is compliant to data protection and privacy laws such as GDPR.

As an admin I want to ensure that user data is encrypted making it costly for malicious actors to gain access to it in case of a data breach.

Diagrams

Use case

Class Diagram